



2024

Sustainability Report

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About this Report

Under the principles of objectivity, standardization, transparency and comprehensiveness, *2024 Sustainability Report of Mingyang Smart Energy Group Limited*, in detail, discloses specific practice and performance of Mingyang Smart Energy Group Limited in the fields of environmental protection, social responsibility and corporate governance throughout the year 2024. This Report is made annually. The *2023 Sustainability Report* was published alongside the *Annual Report of Mingyang Smart Energy Group Limited* in April 2024.

Reporting period

The reporting period of this Report runs from January 1, 2024 to December 31, 2024. Some contents hereof go beyond the foregoing period for the purpose of the completeness of this Report.

Terminology

For the purpose of better presentation, "Mingyang Smart Energy Group Limited" is also referred to as "Mingyang Smart Energy", "Mingyang", "the Company" or "We" in this Report. The holding parent company "Mingyang New Energy Investment Holding Group Co., Ltd." is herein referred to as "Mingyang Group".

Data source and reliability assurance

The information and data presented herein are entirely cited from public data of governments, internal statistical reports of Mingyang Smart Energy, questionnaires of third party, administrative documents and reports, etc. Mingyang Smart Energy hereby undertakes that there are no misrepresentations, misleading statements or material omissions in this Report.

Access to this report

Please browse or download this Report from the official website of Mingyang Smart Energy (www.myse.com.cn). If you have any questions and comments about this Report, please email to myse@mywind.com.cn or dial 0760-28138666.

Reporting scope

This Report covers the businesses of Mingyang Smart Energy Group Limited and its subsidiaries.

Basis of compilation

- The Ten Principles of the UN Global Compact (UNGC)
- The United Nations Sustainable Development Goals (SDGs)
- Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report (Trial), Guidance No. 4 of Shanghai Stock Exchange for Self-Regulatory Supervision of Listed Companies—Compilation of Sustainable Development Reports, Shanghai Stock Exchange
- Guidelines on the Corporate Sustainable Disclosure—Basic Guidelines (Trial), the Ministry of Finance
- ISO26000: Guidance on Social Responsibility (2010)
- Sustainability Reporting Standards (2021), the Global Reporting Initiative (GRI)
- Guide to Sustainable Development Reporting for Chinese Enterprises (CASS-ESG 6.0), the China Enterprise Reform and Development Society

President Message



President



“

The year 2024 stands as a critical juncture for the global energy transition and a significant milestone for Mingyang Smart Energy in deepening our commitment to sustainable development and advancing ESG concepts. Against the backdrop of accelerated global efforts toward the dual carbon goals, Mingyang Smart Energy remains steadfast in the mission of Innovating Clean Energy for All. Riding the surging wave of green and digital economic development worldwide, the Company harnesses technology to drive green productive forces, leads industry transformation through responsibility, and embarks on a new journey to become a Global Leader in Smart and Inclusive Clean Energy, charting the course with dynamic vision.

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In terms of the environment, we establish a strategic framework centered around "green new quality productive forces", make breakthroughs in core technologies including wind power, photovoltaics and marine energy, and facilitate the transition of the energy mix toward low-carbon, intelligent and global style. In early 2024, we achieved a critical milestone in clean energy development: Yangjiang Qingzhou IV Offshore Wind Farm Project was connected to the grid at full capacity, with annual power output of 1.83 TWh, reducing CO₂ emissions by 1.4 million tons annually, equivalent to planting over 7 million trees. As China's farthest offshore wind power project with the highest depth of water, this project sets a model for the worldwide offshore profundal zone development and contributes positively to constructing a clean, low-carbon, safe, and efficient modern energy system in China. Moreover, we constantly implement lifecycle-wide environmental management policies within the Company and apply digital technology to optimize carbon emission management during wind turbine design, manufacturing and operation. Through the application of recyclable materials and decommissioned wind turbine recycling systems, we forge a circular economy pathway with distinct Mingyang characteristics, effectively improving resource utilization rate.

In terms of the society, innovation remains as a priority of our efforts to unleash sustainable development momentum. In 2024, Mingyang Tiancheng Floating Wind Turbine received the Green Design International Award, signifying that China's offshore wind power technology has ranked among the world-class innovations. Originated by Mingyang Smart Energy, dual-rotor design, ultra-high-performance concrete floating foundation design and wind turbine cable system collectively represent groundbreaking advancements, transitioning floating wind turbines from conceptualization to realization, from shallow sea to deep sea, and from single-rotor machine to dual-rotor configuration. These achievements set benchmarks for the global offshore wind power commercialization. In addition to technological progress, we remain steadfast in fulfilling our social responsibility. In response to the typhoon "Capricorn", we respectively donated RMB 5 million to Hainan and RMB 2 million to Zhanjiang, Guangdong Province to aid reconstruction efforts in affected areas. In Zhongchuan, Guanting and other 16 towns and townships in Minhe County, Qinghai Province, Mingyang-funded housing reconstruction projects have been completed and put into use. In 2024, we earmarked RMB 45.18 million for public welfare and charity, demonstrating our commitment to societal well-being. Furthermore, employees are our most valuable assets. We continuously refine employee cultivation mechanisms, proved by the annual employee training expenditure of RMB 6.5 million and nearly 3,000 training programs on the internal online learning platform My-learning in 2024. We make greater efforts to expand employee benefit package, help employees gain stronger senses of gain, belonging and happiness, and foster harmonious labor relations.

In terms of the governance, we unwaveringly give play to "decisive role of manufacturing", comprehensively build industrial clusters, complete the industry-wide, full-ecosystem and global presence of new energy business, establish high-quality and sustainable industrial ecosystem, and pave the way for high-end technologies, industrial clusters and application scenarios of new energy in all aspects. corporate governance system has undergone comprehensive upgrade, integrating compliance-based operation, business ethics and digital transformation into a unified framework. A three-tiered supervision and management system, namely, "internal supervision—external supervision—collaborative supervision" has shaped up, achieving a 100% coverage rate for employee integrity training. Simultaneously, we actively advance ESG management and establish ESG governance structure with the Board of Directors as the core. A code of conduct for sustainable development covering all employees and suppliers has been issued, further enhancing the corporate sustainable development capacity. These efforts earned us recognition as one of the Bloomberg Green ESG 50 Most Noteworthy List in China, highlighting market acknowledgment and support for our ESG and sustainability initiatives.

2025 Outlook: The global carbon neutrality process is reshaping the economic landscape, while green development is merely at the initial stage. Mingyang Smart Energy will persist in innovation-driven strategies, forge green new quality productive forces, make key technological breakthroughs in digital energy, integrated marine development and other fields, leverage technology-driven cost-effectiveness of green electricity, sharpen new competitive edges in carbon costs, and generate high economic value through green momentum. We will make new contributions to promoting global green, low-carbon and high-quality development and building a community with a shared future for mankind.

About Us

Company Profile

Established in 2006 and headquartered in Zhongshan, Guangdong, China, Mingyang Smart Energy Group Limited (601615.SH, MYSE.L) is specialized in research, development and manufacturing of high-end new energy equipment. Our operations span development and operation of clean energy sources (wind, solar, storage, and hydrogen), R&D and manufacturing of high-end equipment and engineering technical services. Ranked among the China's Top 500 Enterprises and the Global Top 500 Clean Energy Companies, we are a domestically-leading smart energy enterprise with significant global reach.

In terms of industry attributes, Mingyang Smart Energy either falls under Industrials—Capital Goods — Electrical Equipment (Industry Code: 201040) according to the Global Industry Classification Standard (GICS®), or "Industrials Industry—Industrial Products & Services Supersector—Electronic & Electrical Equipment Subsector" (Industry Code: 502020) according to Industry Classification Benchmark (ICB).

In January 2019, Mingyang Smart Energy registered IPO success on Main Board of Shanghai Stock Exchange (Stock Code: 601615.SH, CSRC Industry Classification: General Equipment Manufacturing). In July 2022, Mingyang Smart Energy issued the first Global Depositary Receipt (MYSE.L) in China's new energy sector, achieving dual listings in Shanghai and London. In July 2024, China's first publicly offered REIT for onshore wind power and publicly offered REIT of private enterprise for wind power, namely, China Securities—MYSE New Energy REIT (508015), were listed on Shanghai Stock Exchange.

As a leader in the global new energy equipment industry and smart energy turnkey solutions provider, Mingyang Smart Energy is dedicated to green, smart and inclusive energy. Staying true to corporate mission of Innovating Clean Energy for All, Mingyang Smart Energy has established over 20 new energy equipment manufacturing bases, set up 15 regional operation and maintenance service centers and more than 400 spare parts warehouses across China, and laid out R&D and innovation platforms of One Headquarters and Ten Centers all over the world. Mingyang Smart Energy holds over 2,000 technology patents and over 800 invention patents and has formulated over 200 domestic and foreign standards, obtained over 100 types of wind turbine certifications, and participated in eight national-level scientific and technological projects.

In 2024, Mingyang Smart Energy realized operating income of RMB 27.158 billion and basic earnings per share of RMB 0.15. Mingyang Smart Energy ranked 19th among the Global Top 500 Clean Energy Companies, 1st in Global Offshore Wind Power Innovation, and 1st in new installed capacity of offshore wind power in the world.

Operating income

RMB **27.158** billion

Basic earnings per share

RMB **0.15**

Global Top 500 Clean Energy Companies

19th

Global Offshore Wind Power Innovation

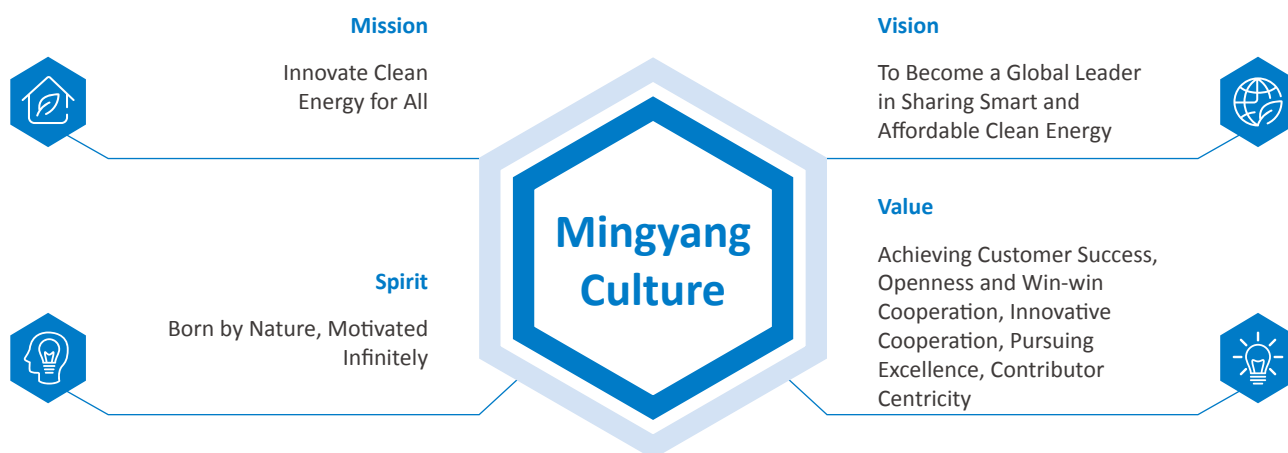
1st

New installed capacity of offshore wind power in the world

1st

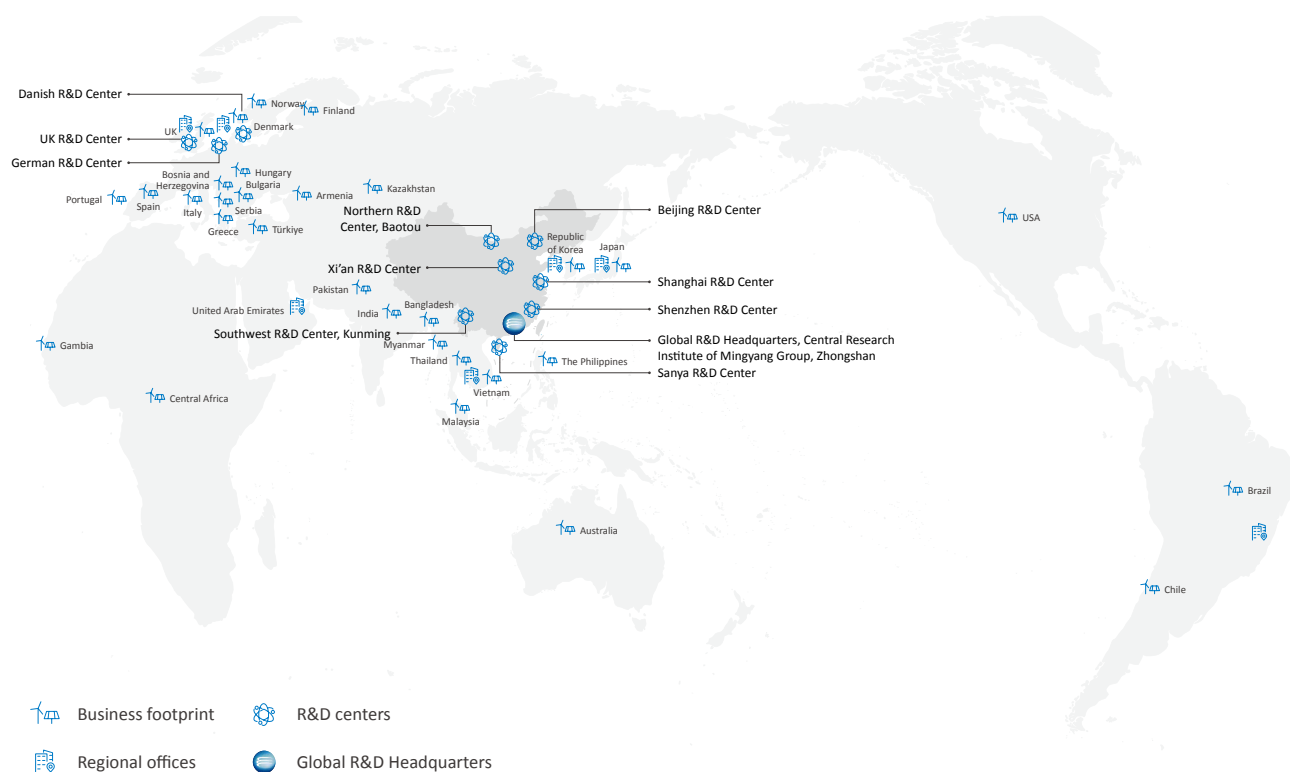


Corporate Culture



Business Landscape

Global landscape



Following the philosophy of Global Cooperation and Global Sharing, Mingyang Smart Energy spares no effort for new energy technology cooperation and business operations in over 60 countries across Asia, Europe, and the Americas, characterized by technology collaboration, resource coordination and supply chain system building with numerous prestigious universities and international certification testing institutions in Denmark, Germany, Norway, the U.K. and other countries.

Nationwide Footprint



20+

New energy equipment manufacturing bases

400+

Spare parts warehouses

15

Regional operation and maintenance service centers

A rapid response service platform, integrating production bases, operation and maintenance service centers and projects, has been established to provide efficient operation and maintenance services and spare parts supply channels for customers.

2024 Highlights

Many products of were inscribed on List of *Windpower Monthly*

In January, *Windpower Monthly*, an authoritative media organization in the global wind power industry, announced the selection results of World's Best Wind Turbine for the Year 2023. Mingyang Smart Energy received three gold medals, two second prizes and numerous "world's best" accolades, leading the wind power industry with the most innovative products inscribed on the list. wind turbines of Mingyang Smart Energy have won gold medals for three consecutive years, mirroring extensive recognition of wind power products in the global market.



The world's longest wind power blade successfully rolled off production line

On February 27, MySE292 Offshore Ultralarge Wind Power Blade, independently developed by Mingyang Smart Energy, successfully rolled off the production line at Hainan Dongfang Intelligent Manufacturing Base. MySE292 Offshore Ultralarge Wind Power Blade is approximately 143 meters in length and has a rotor diameter of 292 meters, marking the world's largest rotor diameter of the same kind. Withstanding super typhoons up to Force 17 on the Beaufort wind scale, this product is suitable for super Class I sea areas across Guangdong, Guangxi, Hainan and Zhejiang.



Attended the Wind Power Development Forum on Wind Power Development Across Rural Towns and Villages

On April 25-26, Mingyang Smart Energy attended Wind Power Development Forum on Wind Power Development Across Rural Towns and Villages hosted by Wind Energy Association of China Renewable Energy Society. Yu Jiangtao, Co-president of Energy Investment Business Group of Mingyang Smart Energy, discussed about collaborative development between wind power and rural areas with insiders. He Xiaobing, Chief Engineer of Central Research Institute of Mingyang Smart Energy, gave a keynote speech on the new quality productive forces and case analysis with respect to "Rural Revitalization".



China Securities—MYSE New Energy REIT was listed

On July 23, Listing Ceremony of China's first publicly offered REIT for onshore wind power and publicly offered REIT of private enterprise for wind power, namely, China Securities—MYSE New Energy REIT (closed-end infrastructure securities investment fund), was held at Shanghai Stock Exchange. The successful listing of MYSE New Energy REIT (Fund Code: 508015) explores a new pathway for innovative capital market financing and asset trading models in wind power industry (underlying assets include Huanghua Jiucheng Wind Farm Project in Cangzhou City, Hebei Province, and Hongtujingzi Wind Farm Project in Hexigten Banner, Chifeng City, Inner Mongolia).



The world's largest offshore wind turbine was successfully connected to the grid

On September 26, MySE18.X-20MW Offshore Wind Turbine with the world's largest standalone capacity and the largest rotor diameter, independently developed by Mingyang Smart Energy, was successfully connected to the grid for power generation. Measured with an annual average wind speed of 8.5 meters per second, such generator set can achieve electricity output up to 80 GWh annually, equivalent to reducing CO₂ emission by 66,000 tons, or meeting the annual electricity demand of about 96,000 residents.



Mingyu-1 successfully harvested fish during large-scale aquaculture demonstration (Season II)

On October 7, the world's first jacket turbine and cage integrated intelligent equipment Mingyu-1 successfully harvested fish during large-scale aquaculture demonstration (Season II). This marked a significant leap from exploration and testing to large-scale development, verifying the sustainability of wind power-fishery integration mode and feasibility of large-scale production, laying a solid foundation for wind power-fishery integration and large-scale development, and gaining abundant practical experience.



Mingyang Smart Energy was invited to attend COP29

On November 11-22, Mingyang Smart Energy was invited to attend the 29th Session of the Conference of the Parties (COP29) to the United Nations Framework Convention on Climate Change in Baku, Azerbaijan. As a leader in the global new energy equipment industry and smart energy turnkey solutions provider, Mingyang Smart Energy shared Chinese wind power technology and proprietary global solutions and related cases, aiming to make new and greater contributions to accelerating the global clean energy transition and addressing global climate change. During COP29, sustainable audio-visual outcome Hear the Ocean, an episode of The Heart of the Earth produced by Mingyang Smart Energy, was played.



Floating wind power platform Mingyang Tiancheng with the world's largest standalone capacity was put into operation

On December 11, Mingyang Tiancheng was put into operation at Qingzhou IV Offshore Wind Farm in Yangjiang, Guangdong Province, with offshore distance of about 70 kilometers and water depth of about 45 meters. Independently developed by Mingyang Smart Energy, this sets a global precedent for carrying two 8.3 MW offshore wind turbines on a floating foundation, with gross installed capacity of 16.6 MW. Mingyang Tiancheng is expected to supply green electricity of about 54 GWh annually and meet the annual electricity demand of about 30,000 families of three.



The world's first 30 MW pure hydrogen-fueled gas turbine "Jupiter-1" completed the first full-scale ignition test

On December 22, the world's first 30 MW hydrogen-fueled gas turbine "Jupiter-1" successfully completed the first full-scale ignition test. This is pure hydrogen-fueled generator set with the world's largest single unit power. This ignition test achieved the desired effect, verifying the reliability and safety of the pure hydrogen-fueled gas turbine system. "Jupiter-1" marks significant progress in Chinese high-power hydrogen-fueled gas turbine and hydrogen energy storage technology, alongside with new long-term energy storage technologies and products.



2024 Key Performance

Environmental performance

Total environmental investment	Total greenhouse gas emissions	Direct greenhouse gas emissions
RMB 122 million	132,869.19 tons of CO ₂ e	7,661.70 tons of CO ₂ e
Indirect greenhouse gas emissions	Electricity consumption	Water consumption
125,207.49 tons of CO ₂ e	167,879,949.89 kWh	1,789,028.97 m ³
Diesel oil consumption	Natural gas consumption	Volatile organic compounds (VOCs) emissions
591.50 tons	2.515 million m ³	11.05 tons

Social performance

R&D technology personnel	R&D input	Cumulative number of domestic patent applications
2,062	RMB 1.104 billion	2,043
Total employees	Labor contract signing rate	Social insurance coverage rate
13,947	100%	100%
Work safety input	Charitable donations	Poverty alleviation and rural revitalization input
RMB 29.3525 million	RMB 26.2153 million	RMB 0.79 million

Economic performance

Total assets	Total tax payments	Operating revenue
RMB 86.795 billion	RMB 1.328 billion	RMB 27.158 billion

ESG Honors

ESG general awards

CCTV list of “Top 100 Chinese Listed Companies as ESG Pioneers”

Winner of 2024 Responsible Whale and Bull Award—ESG Carbon Peaking and Carbon Neutrality Pioneer Award

Winner of Bloomberg Green ESG 50 Most Noteworthy List in China—Leading Champion

Winner of 2024 ESG Gold Medal for China Manufacturing Listed Companies

Winner of 2024 World Green Design Award

Awards under environmental category (E)

Winner of Green and Beautiful Park Enterprise in Zhongshan City

The world's largest floating wind power platform Mingyang Tiancheng was selected into Typical Cases on Carbon Peaking and Carbon Neutrality Technology Innovation for the Year 2024

Wind Turbine Yaw Energy Storage Backup Power System was selected into Typical Cases on Green Technology Innovation for the Year 2024

Creating Smart Energy and Building Green Home was selected into Excellent Practice Cases on Green and Low-carbon Enterprise Development for the Year 2024

Awards under social category (S)

Winner of Outstanding Contribution Award for Assisting in High-Quality Development Project for Hundreds of Counties, Thousands of Towns and Myriads of Villages

Selected into Corporate Social Responsibility Cases for the Year 2024 by People.cn

Selected into the 1st Credit 100 Mingzhu Cup Excellent Project Cases of Climate-Friendly Enterprises

Awards under governance category (G)

China's Top 500 Enterprises ranked by Fortune

Winner of the First Prize of 2023 National Science and Technology Progress Award in 2024

Awards for subordinate bases

Xinyang Base was certified as National-level Green Factory

Qinghai Base was awarded National Model for Open and Democratic Management of Factory Affairs

Xilin Gol League Base was awarded Pioneer Workers Organization of Inner Mongolia Autonomous Region

Baotou Base was awarded Statistical Integrity Enterprise

Yangjiang Base was recognized as Specialized and Innovative enterprise

Fangchenggang Base was awarded 2024 Private Enterprise with the Most Development Potential in Fangchenggang



CCTV list of Top 100 Chinese Listed Companies as ESG Pioneers



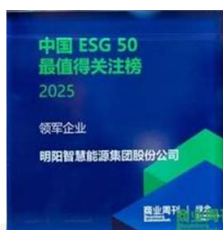
2024 Responsible Whale and Bull Award—ESG Carbon Peaking and Carbon Neutrality Pioneer Award



2024 ESG Gold Medal for China Manufacturing Listed Companies



First Prize of National Science and Technology Progress Award



Bloomberg Green ESG 50 Most Noteworthy List in China—Leading Champion



Corporate Social Responsibility Cases for the Year 2024 by People.cn



The 1st Credit 100 Mingzhu Cup Excellent Project Cases of Climate-Friendly Enterprises

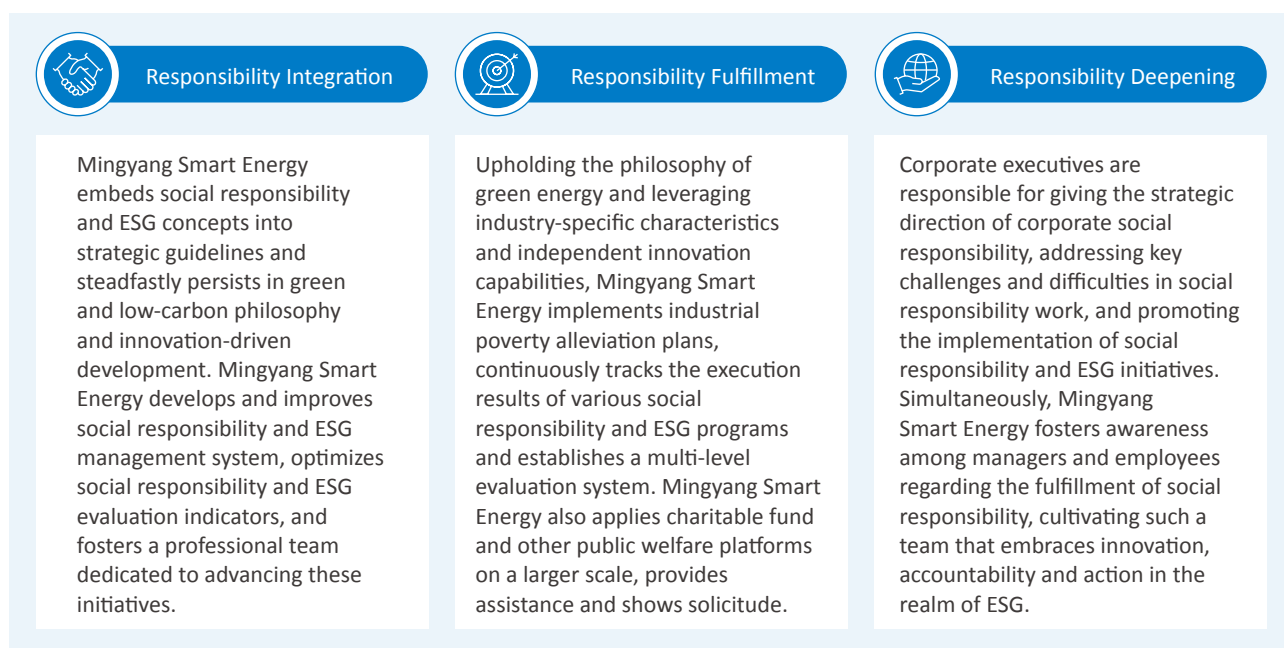


Typical Cases on Carbon Peaking and Carbon Neutrality Technology Innovation for the Year 2024—Mingyang Tiancheng

ESG Management

ESG management system

Mingyang Smart Energy incorporates social responsibility and ESG into corporate operation and management, featuring a social responsibility and ESG implementation mechanism, namely, "Responsibility Integration—Responsibility Implementation—Responsibility Deepening". Through top-level design, systematic guarantee, key indicator setting, continuous tracking and optimization and other means, Mingyang Smart Energy comprehensively coordinates and proceeds with the work related to corporate governance, products, R&D, environment, employees, communities and other aspects concerning social responsibility and ESG topics.



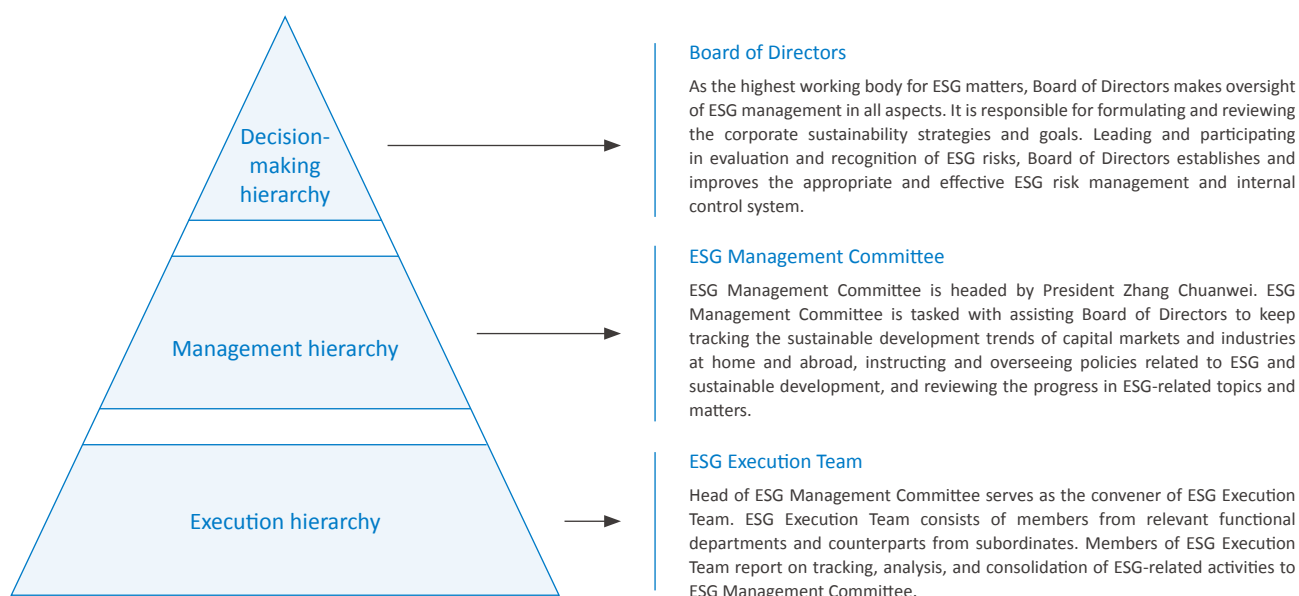
In 2024, Mingyang Smart Energy systematically updated ESG indicator system in accordance with *Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report (Trial)* (hereinafter referred to as the "Guidelines"), with considerations to the actual circumstances. Based on this update, Mingyang Smart Energy issued *ESG Management Measures of Mingyang Smart Energy*, revised *Rules of Procedure of ESG Management Committee*, gradually established sustainable risk identification workflow, improved and perfected ESG management system, and provided decision-making reference and operational support for the implementation of major strategic initiatives.



ESG Practices and Goals

ESG management architecture

To further diversify the existing ESG architecture, Mingyang Smart Energy shapes up a three-hierarchy management architecture comprising Decision-making Hierarchy (Board of Directors), Management Hierarchy (ESG Management Committee), and Execution Hierarchy (ESG Execution Team). This architecture clarifies the role positionings and responsibility systems of all hierarchies and departments, thereby improving the execution efficiency and collaboration of ESG work.

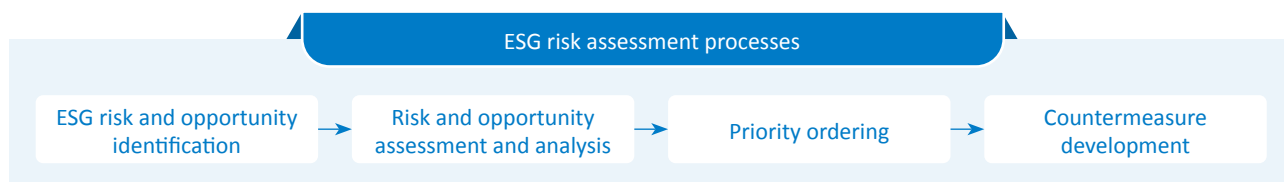


ESG management architecture	
Decision-making hierarchy (Board of Directors)	
Positioning	Ensuring smooth implementation of ESG management with leadership and decision-making ability
Duty	Supervising and ratifying the corporate ESG strategies, goals and systems; regularly debriefing and reviewing major development trends, risks and opportunities of ESG, and judging on ESG-related matters; reviewing and approving the annual ESG/sustainable development reports; overseeing the implementation of ESG work and ESG strategies; handling major issues in ESG work.

ESG management architecture	
Management hierarchy (ESG Management Committee)	
Responsible department	ESG Management Committee consists of chairperson and members, with President Zhang Chuanwei as the head
Positioning	Promoting ESG to incorporate into corporate governance, and forming ESG work system.
Duty	Keeping abreast of the laws, regulations and policies in the field of ESG, conducting research on environmental protection, social responsibility, normative governance and other work directions, and putting forward suggestions; closely aligning with strategic development goals, developing and improving strategic planning, management structure, systems and implementation rules of ESG management; review and evaluating the current status of ESG work, regularly reviewing the realization of ESG goals, stepping up materiality assessment and reporting process to ensure continuous implementation and implementation of ESG work; reviewing major ESG trends and related risks and opportunities, evaluating the adequacy and effectiveness of ESG organization and business model, reviewing key topics with forward-looking implications for ESG management or rating, and propelling resource allocation and project initiation; guiding, supervising and inspecting the implementation of ESG work, evaluating the overall ESG performance and making relevant suggestions; reviewing sustainable development reports; reviewing major matters related to ESG management.
Execution hierarchy (ESG Execution Team)	
Responsible department	ESG Execution Team consists of personnel designated by the headquarters organs, business units and key functional departments
Positioning	Serving as ESG implementation unit, and specifically implementing ESG policies and goals
Duty	Organizing, promoting and fulfilling ESG work tasks according to work arrangement of senior managers; developing systems, plans and standards for ESG topics, as well as phased work plans and implementation programs; collaborating with relevant departments and organizations to carry out ESG practices, and actively resolving cross-departmental problems and topics of ESG work; collecting and compiling ESG indicator information, and preparing ESG-related documents; giving feedback, report and summary of the problems and results of ESG work, reporting on work progress to ESG Coordination Team, and putting forward reasonable suggestions.

ESG management policies and risk control

To effectively embed ESG concepts into the whole context of business development, Mingyang Smart Energy optimized and integrated ESG management policies internally in 2024, aiming to give clear and explicit normative guidelines for the overall corporate operation and routine behaviors of all employees.



Dimension	Major risks	Countermeasure
Environmental (E)	Environmental resource consumption and waste discharge	<ul style="list-style-type: none"> To strictly abide by environmental laws and regulations, fulfill environmental monitoring work, and treat waste in compliance-based way To carry out environmental protection publicity and education, and constantly improve employees' awareness of environmental protection and resource conservation
	Fight against climate change	<ul style="list-style-type: none"> To vigorously develop offshore wind power To develop "zero carbon solutions" To issue Green Fund To maintain the ecosystem To actively explore circular economy
Social (S)	Product quality risk	<ul style="list-style-type: none"> To establish a sound quality management system
	Occupational health and safety	<ul style="list-style-type: none"> To constantly improve the occupational health management system To strengthen the ability to identify occupational disease risks To enforce work mechanism for double safety prevention To make more efforts for cultivating safety culture
	Supply chain risk	<ul style="list-style-type: none"> To strengthen supply chain management system To build sustainable supply chain Responsible minerals procurement
Governance (G)	Regulatory and compliance risks of business ethics	<ul style="list-style-type: none"> To constantly optimize the internal governance mechanism and supervision system, standardize business processes at departmental level, and improve corporate governance

In addition, in response to changes in overseas regulations, Mingyang Smart Energy comprehensively analyzes local regulations and acts, identifies the existing risk points in ESG management framework, and proposes to convert relevant tasks into ESG risk management and control, ensuring ESG compliance risks are effectively controlled.

Looking ahead, Mingyang Smart Energy will constantly optimize mechanisms and processes for ESG risk identification, encompass regulation interpretation, risk assessment, workflow optimization and other critical parts, and strengthen sustainable development capacity by fostering cross-departmental collaboration.

ESG training

To help employees understand more about ESG concepts and practise ESG concepts in work positions, three special ESG training sessions were held in June, September and December 2024. These trainings clarified theoretical basis of ESG, domestic and international practice cases, the way to support and carry out ESG work and other contents, significantly propping up sustainable development capacity building.



ESG goals

The core values, advocated by Mingyang Smart Energy, are highly consistent with the mission of the United Nations to realize the Sustainable Development Goals (SDGs). In 2024, Mingyang Smart Energy set ESG strategic goals through in-depth benchmarking 17 SDGs of the United Nations, and comprehensively synergized development strategy and the global sustainable development towards new peaks.

SDG1:

Carry out rural revitalization assistance, support agricultural development and agricultural product consumption, and motivate peasants to increase income and get rich.

SDG2:

Launch charity activities, and improve the living conditions of poor families.

SDG3:

Provide regular health examination service for employees;
Offer safe and healthy workplace, introduce occupational health management system, operating procedures and other normative documents, and maintain occupational disease case record at zero.

SDG4:

Build sophisticated talent cultivation system, and provide diversified curriculum system;
Support employees to accept continuing education and improve skills, provide tuition reimbursement, skills training and other services, and help employees have access to higher academic qualification or professional certification;
Help rural talents, offer community skills trainings, and improve people's employability.

SDG5:

Guarantee equal employment rights of female employees;
Ensure equal pay and benefits for men and women with the same work capacity in the same positions, and eliminate the gender pay gap;
Create a diverse, equal and inclusive working atmosphere, and prohibit any form of gender discrimination.

SDG6:

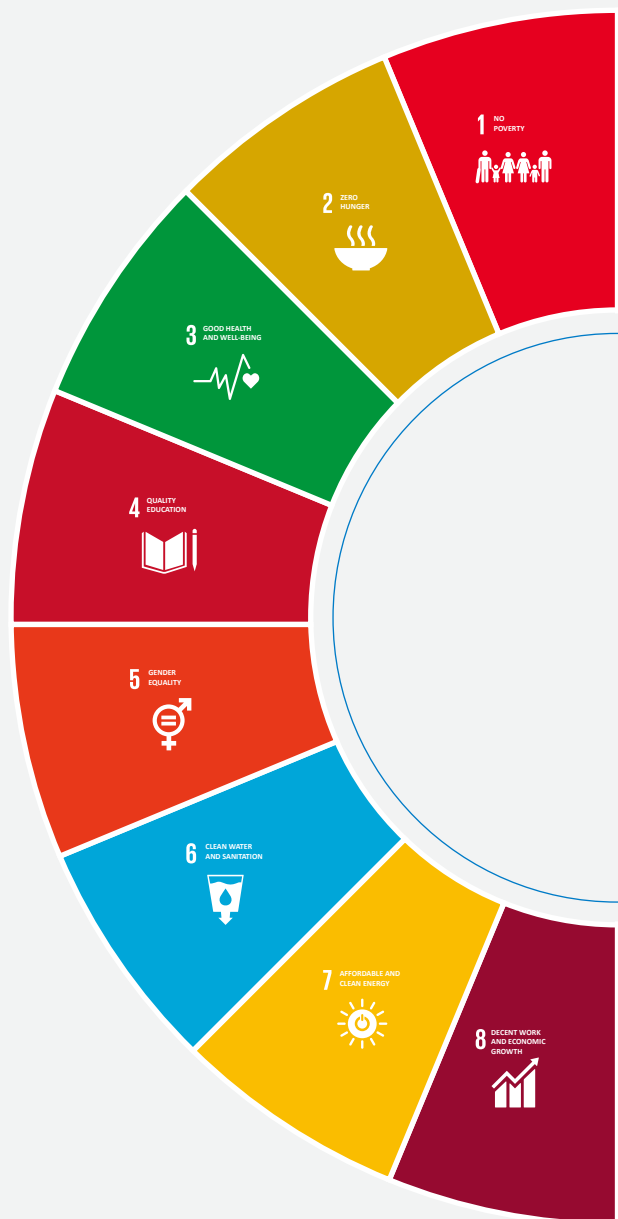
Promote the upgrade of water facilities, comprehensively adopt water-saving sanitary appliances, and reduce water resource waste.

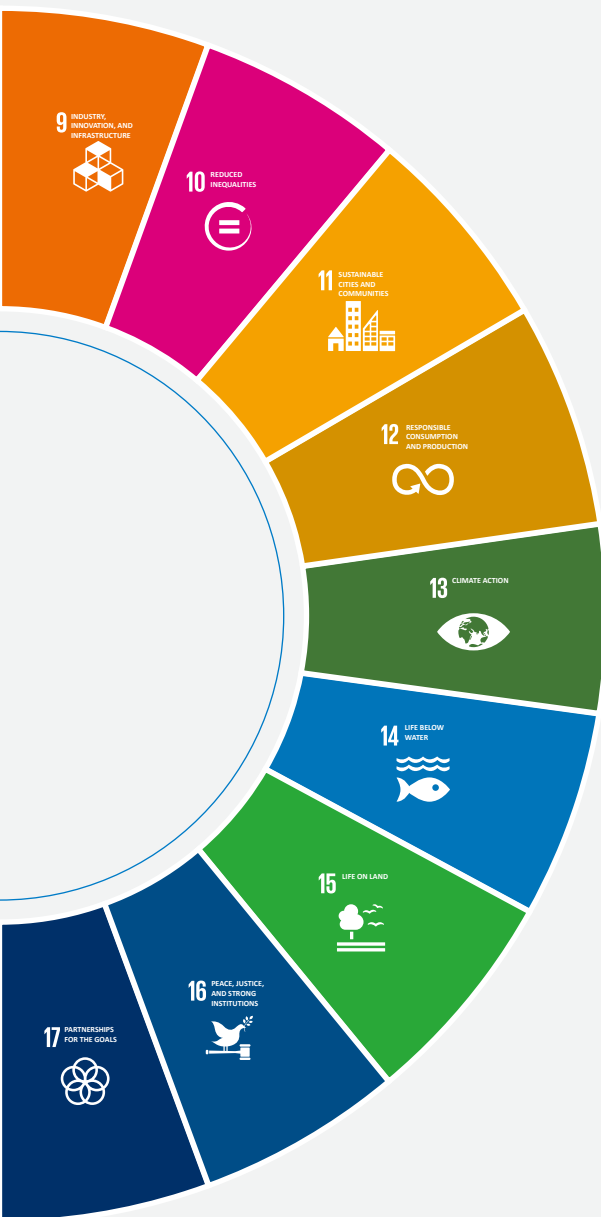
SDG7:

Add investment in clean technology R&D, and actively build the whole industrial chain ecosystem of wind power, solar power, hydrogen and energy storage.

SDG8:

Establish and improve the internal talent circulation mechanism, expand the employing channels, and promote the employment of key social groups;
Provide competitive salary and diversified benefit package.



**SDG9:**

Give impetuses to scientific and technological innovation capacity building, and strengthen two-wheel drive strategy of capitals and talents;

Lay out an ecosystem for concerted efforts of industries, universities and research institutions, profoundly cooperate with well-known universities and scientific research institutions, and quicken industrialization pace of new technology applications.

SDG10:

Give necessary support and protection for vulnerable employee groups;

Provide equal opportunities for training, promotion and career development for all employees.

SDG11:

Echo with the national call for Wind Power Development Across Rural Towns and Villages, invest and develop new energy infrastructures, and enable rural residents to enjoy more inclusive clean electricity.

SDG12:

Establish product quality management system, and actively carry out responsible marketing and customer complaint handling;

Promote sustainable development of suppliers, and avoid conflict minerals.

SDG13:

Constantly increase the installed capacity of wind power, photovoltaic power and other types of clean energy, and boost green and low-carbon economic and social transformation;

Identify, analyze and manage climate risks and opportunities with significant potential impacts, and develop climate action plans;

Develop green "zero-carbon" scenario for energy saving and environmental protection.

SDG14:

Avoid construction for fish spawning grounds in maritime projects;

Regularly carry out artificial breeding and releasing activities, and make reasonable compensation for fishery resources.

SDG15:

Employ non-reflective materials in blade production process, and minimize the visual impact of fan blades on birds.

SDG16:

Strengthen compliance-based management, and ensure fairness, transparency and inclusiveness of the corporate operation.

SDG17:

Abide by the principles of honest management and fair trading, and resolutely oppose unfair competition and monopoly conduct;

Establish positive interactive relations with governments and enterprises, and build a responsible supply chain.

Identification of material topics

Mingyang Smart Energy rigorously follows topics materiality analysis steps and report disclosure framework as mentioned in Guidance No. 4 of Shanghai Stock Exchange for Self-Regulatory Supervision of Listed Companies—Compilation of Sustainable Development Reports (hereinafter referred to as the “Guidance”) to set forth the detailed steps analysis of material topics. Through a comprehensive approach including policy research, peer benchmarking, survey, interview and matrix rendering, Mingyang Smart Energy identifies, screens and discloses material topics with financial materiality and impact materiality, with appropriate responses to these topics in this Report.

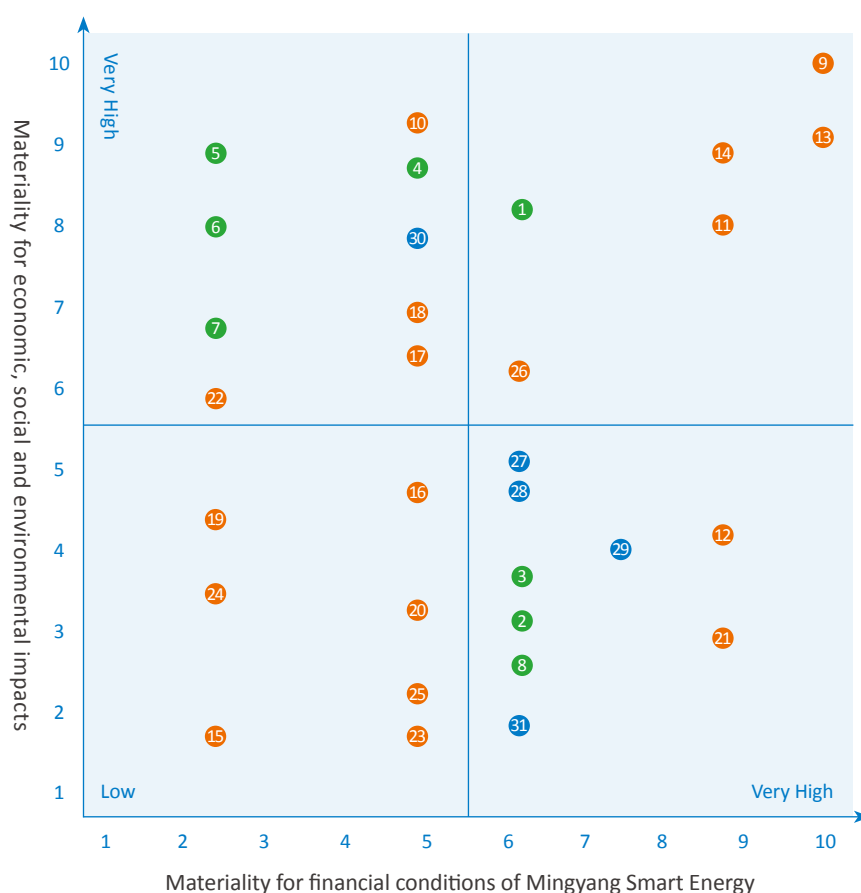
Material topics analysis steps



Material topics library

Environmental	1. Climate change mitigation and adaptation 4. Water resources management 7. Circular economy	2. Ecosystem and biodiversity conservation 5. Pollutant emission management 8. Environmental compliance management	3. Energy utilization 6. Waste management
Social	9. Product quality and safety 12. Intelligent manufacturing and green production 15. Responsible management of mineral products supply chain 18. Employee health and care 21. Information security and privacy protection 24. The Party building activities	10. Intellectual property protection 13. Customer satisfaction 16. Diversity and equal opportunities 19. Community contribution and participation 22. Contribution to industry development 25. Rural revitalization	11. Innovation-driven style 14. Supply chain management 17. Employee development and training 20. Public welfare activities 23. Equal treatment of small and medium-sized enterprises 26. Work safety
Governance	27. Corporate governance 30. Anti-corruption	28. Due diligence 31. Anti-unfair competition	29. Communication with stakeholders

Material topics matrix











Based on the quantitative matrix analysis results of double materiality, we identify six topics, namely, "Climate Change Mitigation and Adaptation", Innovation-Driven Style, "Product Quality and Safety", "Customer Satisfaction", "Supply Chain Management" and "Work Safety", as high-priority topics of Mingyang Smart Energy and key work tasks for mid- and long-term sustainable development management in the future. We disclose four key elements of information in the corresponding chapters.

No.	Topics	Page
1	Climate Change Mitigation and Adaptation	P38-P42
9	Product Quality and Safety	P69
11	Innovation-Driven Style	P58-P60
13	Customer Satisfaction	P71
14	Supply Chain Management	P78
26	Work Safety	P95-P97

Communication with stakeholders

Mingyang Smart Energy attaches great importance to the concerns of stakeholders and actively engages in communication with them. We endeavor to respond to the reasonable appeals from stakeholders to the utmost extent by understanding their appeals, opinions and suggestions, and incorporating material topics of concern into decision-making and actual operation.

Stakeholders	Appeals from stakeholders	Corporate responses and actions	Means of communications
 Shareholders and investors	<ul style="list-style-type: none"> Corporate profitability Corporate governance norms Information disclosure norms Protection of shareholders' interests Profit distribution capability Fair and open information 	<ul style="list-style-type: none"> Improve information disclosure system Launch investor relations activities Distribute dividends to shareholders 	<ul style="list-style-type: none"> General meeting of shareholders E- Interactive Report disclosure Investor hotline Roadshow and counter-roadshow Performance presentation session
 Governments and regulators	<ul style="list-style-type: none"> Legal and compliance-based operation Generation of social benefits Promotion of economic development Scientific and technological innovation capabilities 	<ul style="list-style-type: none"> Comply with laws, regulations and policies Pay taxes according to law and honest business operation Improve innovation and R&D capabilities Offer stable jobs Stimulate local development with specialty industries 	<ul style="list-style-type: none"> Information disclosure Supervision and assessment Conference exchange Telephone calls and mails
 Customers	<ul style="list-style-type: none"> Technical service quality Product safety and stability Responsibility for honest contract performance Ability to create value 	<ul style="list-style-type: none"> Strictly fulfill contracts Control product quality Make continuous investment in product R&D Provide quality products and services 	<ul style="list-style-type: none"> Customer satisfaction surveys Customer visits and talks Information exchanges online
 Employees	<ul style="list-style-type: none"> Protection of legitimate rights and interests Talent cultivation mechanism Pay and benefits 	<ul style="list-style-type: none"> Employ in an equal and standardized way Achieve full coverage of labor contracts Afford professional skills training opportunities Provide diversified development platforms Enhance health and safety assurance 	<ul style="list-style-type: none"> Workers' Congress Labor union Internal information communication platform Employee satisfaction survey Face-to-face communication
 Suppliers	<ul style="list-style-type: none"> Integrity and compliance with contracts Standardized procurement management Win-Win cooperation Quality-assured supplies 	<ul style="list-style-type: none"> Refine supply chain management Establish long-term strategic partnership Improve supplier performance evaluation 	<ul style="list-style-type: none"> Supplier conference Supplier training Survey questionnaire Business visit Call & Email
 Partners	<ul style="list-style-type: none"> Compliance with industry norms Industrial cooperation and development Technology R&D cooperation Promotion of industry development 	<ul style="list-style-type: none"> Implement intra-industry cooperation and exchange mechanism Establish long-term strategic partnership Participate in the development of industry standards 	<ul style="list-style-type: none"> Industry conferences Field visits Joint activities
 Community organizations/non-profit organizations	<ul style="list-style-type: none"> Local environment protection Community construction and development Community charity and public welfare 	<ul style="list-style-type: none"> Environment protection and green operation Support for public construction in the communities Poverty alleviation through industries and education Community charity and public welfare activities 	<ul style="list-style-type: none"> Exchange visits Charitable donations Media interviews Joint activities
 Media	<ul style="list-style-type: none"> Information Disclosure and transparency Community engagement and philanthropy 	<ul style="list-style-type: none"> Ensure the quality and transparency of information disclosure Establish a sound communication mechanism Step up media cooperation and interaction 	<ul style="list-style-type: none"> Media communication Media interview Media coverage Questionnaire

Special Topic I: Withstanding Super Typhoon and Demonstrating "Wind Power Resilience"

On September 6, the Super Typhoon "Capricorn" passed by and attacked Hainan, Guangdong, Guangxi and other regions. Wind turbines in service on the South China Sea were indirectly or directly affected. Over 1,700 wind turbines in 51 offshore and onshore wind farms of Mingyang Smart Energy were challenged by this super typhoon, embellishing the No.1 Brand of wind turbines with typhoon resistance.

Typhoon-resistant Offshore Wind Turbines

Mingyang Smart Energy overcomes numerous world-class difficulties in offshore wind power within typhoon-prone areas, securing the global leadership in typhoon-resistant wind power technology. The fixed wind turbines, such as MySE18.X-20MW and Mingyu-1, demonstrate excellent structural stability and wave resistance, standing firm even in strong winds exceeding Force 17 on the Beaufort wind scale.

| MySE18.X-20MW Offshore Wind Turbine Set

Leveraging active typhoon-resistant design solutions and operational experience from the existing typhoon-resistant wind turbines, MySE18.X-20MW Offshore Wind Turbine was successfully tested by typhoon shortly upon completion of installation. It maintained safe and stable operation during the period. Innovative low-frequency grid-connected technology also says goodbye to high expense and low energy efficiency associated with large-scale long-distance power transmission. Widely recognized by customers, MySE18.X-20MW is not only applied in domestic typhoon-prone areas with medium/high wind speeds, but also will be used in Europe and other high-wind-speed parts of the world.

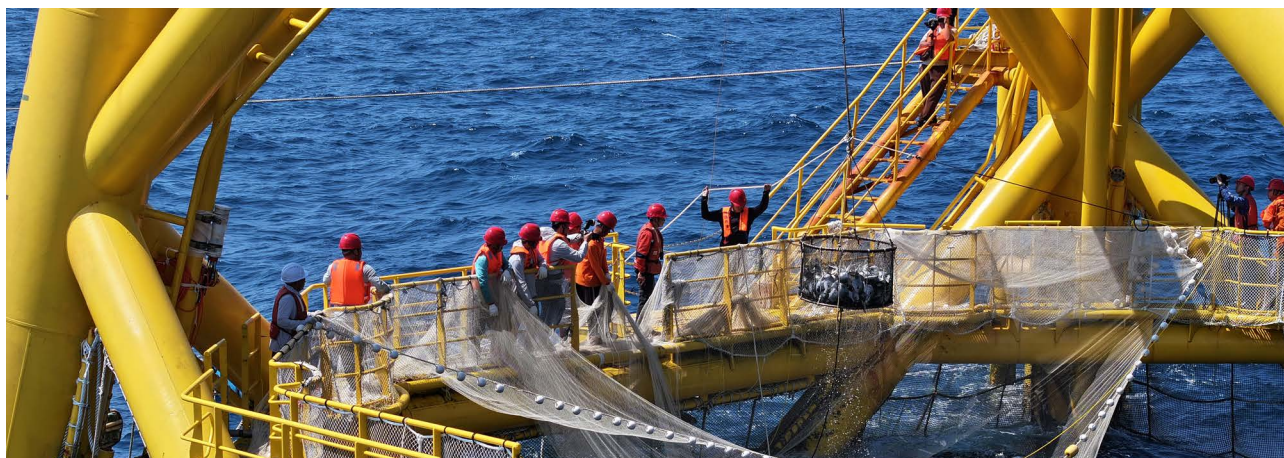


MySE18.X-20MW was successfully installed on August 28

| Mingyu-1

Mingyu-1, the world's first integrated intelligent equipment for wind power generation and fishery, stands in typhoon-prone depopulated zone with offshore distance of nearly 70 kilometers. While actively exploring "deep-sea large-scale aquaculture for wind power generation and fishery + mixed-species fish rearing mode", Mingyang Smart Energy fully integrates typhoon factors into design concept of Mingyu-1 and reasonably reinforces the cage structure and netting system. Through intelligence and AI technologies, Mingyu-1 enables scientific judgment and real-time monitoring of typhoons, forming individual typhoon-resistant risk control strategies tailored to different locations.

Mingyu-1 released over 100,000 fish larvae during large-scale aquaculture demonstration (Season II) and caught such species as *Trachinotus blochii*, *Sparus aurata*, *Sparus macrocephalus*, *Lutjanus argentimaculatus*, etc. After the super typhoon, more than 80,000 kilograms of fish were still harvested, with larval survival rate of over 80%. This fully verifies the sustainability of wind power-fishery integration mode and feasibility of large-scale production, lays a solid foundation for wind power-fishery integration and large-scale development, and infuses “blue driving force” into the high-quality development of ocean ranches.



Mingyu-1 harvested fish during Season II

Globally-leading Floating Wind Turbines

As offshore resources are exploited to a saturation point, Mingyang Smart Energy is progressively advancing the construction of wind farms from land to sea, from shallow waters to deep seas, and from fixed foundation to floating foundation. Notably, Mingyang Smart Energy successively commissions typhoon-resistant floating wind turbines Three Gorges Lead, CNOOC's Haiyou Guanlan, Mingyang Tiancheng and the like, springboarding toward the deep-sea niche of the offshore wind power industry.

| Mingyang Tiancheng Floating Wind Turbine

As floating wind power platform with the world's largest standalone capacity, Mingyang Tiancheng sets a global precedent for carrying two 8.3 MW offshore wind turbines on a floating foundation. This is also a key demonstration project for major scientific and technological innovation of energy sector under China's 14th Five-Year Plan.



Mingyang Tiancheng works in deep sea

Advanced design concept

Mingyang Tiancheng utilizes ultra-high-performance concrete material as floating foundation and features dual-wind-wheel and dual-main-engine configuration. It pioneers in single-point mooring design and composite mooring system, enabling adaptive yaw adjustments based on wind directions. In this way, Wherever a typhoon blows, Mingyang Tiancheng turns. With standalone installed capacity of 16.6MW, pressure resistance of over 115MP and annual green electricity output of approximately 54 GWh, Mingyang Tiancheng boasts the world's largest standalone installed capacity, the lightest single-MW weight, exceptional typhoon resistance and other characteristics, setting a groundbreaking milestone in ocean energy and sci-tech boundaries exploration.

High promotional value

The experience in research, development, manufacturing, assembly, commissioning, operation and other aspects, gained from Mingyang Tiancheng Prototype, are directly applicable to the next-generation MySE2XMW Floating Wind Turbine, holding great significance for enhancing the constructability and mass production of the entire generator set. Mingyang Tiancheng will play its role under floating application scenarios in the sea areas of the South China Sea, Japan and South Korea, facing up to the extreme wind speed up to 57 m/s.

Mingyang Tiancheng has received numerous domestic and foreign awards, including:



Gold Award for World's Best Offshore Wind Turbine



2024 World Green Design Award



Typical Cases on Carbon Peaking and Carbon Neutrality Technology Innovation for the Year 2024

Haiyou Guanlan



Haiyou Guanlan MySE7.25-158 Wind Turbine stands as the first deep-sea floating wind turbine in China, characterized by "double hundred", namely, water depth of over 100 meters and offshore distance of over 100 kilometers. Employing advanced semi-direct drive and floating control algorithm module, "Haiyou Guanlan" brings together such innovative technologies as efficient damping structures, online tensioner and dynamic cable, effectively mitigating risks associated with blade damage caused by sea waves and submarine cable interference due to marine organism growth. "Haiyou Guanlan" can adapt to complex multi-field coupling environmental conditions of winds, sea waves and currents, continuously supplying green electricity to 13 oil production platforms in Wenchang Oilfield. Facing the challenge of Super Typhoon Yagi, it demonstrated exceptional typhoon resistance.

Three Gorges Lead



As China's first typhoon-resistant floating wind turbine, MySE5.5-155, carried by Three Gorges Lead, is designed to withstand extreme conditions of winds, sea waves and currents once every 50 years. During Super Typhoon "Capricorn", Three Gorges Lead faced instantaneous wind speed up to 40 m/s and has successfully undergone multiple extreme weather conditions, including typhoons and sea waves in the South China Sea. This project marks an initial exploration of Chinese wind turbine set to shift from fixed foundation to floating foundation, demonstrating significant potential for the development of deep-sea floating wind power.

Special Topic II: Navigating the Oceans and Going Global

Mingyang Smart Energy steadfastly implements corporate strategy geared to maritime and overseas markets, with four business hubs in Japan, South Korea and Southeast Asia, the Middle East and North Africa (MENA), Europe and the Americas. Thanks to products characterized by high reliability, high power generation efficiency and high profitability, Mingyang Smart Energy keeps expanding our presence in the international market and spearheads the Chinese offshore wind turbine industry while upholding the principle of long-termism to promote the worldwide application of projects associated with wind power, photovoltaic power, energy storage, etc. Over the years, high-end clean energy equipment, labeled as “Made by Mingyang”, has been deployed in more than 800 wind and photovoltaic power generation projects across ten countries and regions, with a cumulative installed capacity of 61GW.

Tapping the potential of the Philippine offshore wind power amidst global energy transition

In January, Mingyang Smart Energy reached a cooperation intent with AP Power, a leading Philippine-based new energy investment company, focusing on offshore wind power and green hydrogen projects. This is aimed to assist AP Power in development, construction, and operation of offshore wind farms, optimize offshore wind power market presence, and accelerate the renewable energy development in the Philippines.

Emerging as a newcomer into the German market

In January, Mingyang Smart Energy signed two innovative cooperation agreements with BASF Performance Materials. These agreements herald strategic collaboration in polyurethane composite girder plate technology and establishment of a joint innovation and development laboratory. With emphasis on innovative materials R&D, both parties will enhance technical, commercial, marketing and business model cooperation in the field of wind power, and jointly boost high-quality sustainable development in the wind turbine blade industry.

In July, Mingyang Smart Energy inked a preferred supplier agreement with Luxcara, a prominent German clean energy developer. Under this agreement, Mingyang Smart Energy will supply 16 offshore wind turbines, each with installed capacity up to 18.5MW, for Luxcara's 270MW Waterkant offshore wind farm project in the German North Sea by 2028. Mingyang Smart Energy promises to manufacture turbines with 100% renewable energy and offer local jobs in Europe. This partnership navigates numerous barriers imposed by the European Commission and the European Wind Energy Association. Mingyang Smart Energy makes debut in the German market, clinching the largest transaction for Chinese wind power enterprises in Europe.

In September, Mingyang Smart Energy formalized a strategic cooperation agreement with Siemens, intended to rely on Siemens' innovative technology and industry insights in digitalization and low-carbon development, leverage three-decade legacy of Mingyang Smart Energy in clean energy equipment manufacturing and solutions, and jointly roll out advanced digital products and automation products. Both parties will jointly develop integrated solutions for power supply, grid, load and energy storage, build digital factories and foster digital professionals. This collaboration will chart a new course for high-quality development of the renewable energy industry chain.



Signing Ceremony for BASF-Mingyang Smart Energy Cooperation



Construction commencement of the first China-German offshore wind power project undertaken by Mingyang Smart Energy and BASF

Expanding business in Italian offshore frontier

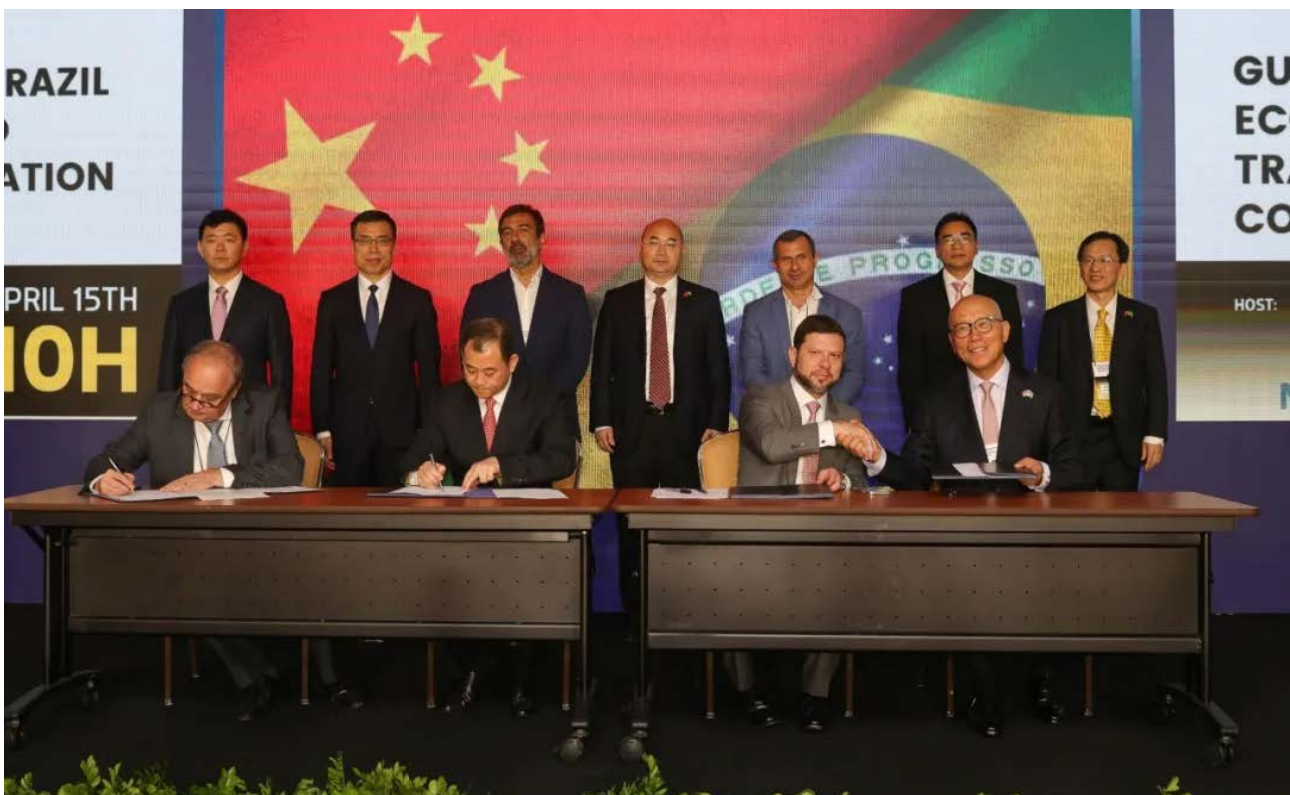
In August, Mingyang Smart Energy partnered with Renexia again to sign a tripartite memorandum of understanding with the Italian Government. EUR 500 million investment was earmarked for building a wind turbine manufacturing factory in Italy. A local subsidiary will be established to oversee production of key components for Med Wind Project, the largest floating offshore wind farm in the Mediterranean. Mingyang Smart Energy will furnish 18.8MW Floating Wind Turbine for this project.

In October, Mingyang Smart Energy and Renexia further strengthened their collaboration by signing a front-end engineering design contract, marking a significant step forward in the Mediterranean Med Wind Project.

Making a quantum leap in the Brazilian market

In January, Mingyang Smart Energy signed a preferred supplier agreement with Brazilian wind power project developers, intended to supply 30 MySE4.0-156 sets and 19 MySE6.25-172 sets, with total installed capacity 240MW, for onshore wind power projects in Brazil. Additionally, Mingyang Smart Energy will provide 20-year operation and maintenance services and unswervingly dedicate to offering cutting-edge renewable energy solutions for the global market and customers.

In August, Mingyang Smart Energy secured its second order in the Brazilian market by signing a procurement contract with Energy Company of Paraná for MySE6.25-172 Wind Turbine. The first typhoon-resistant wind turbine was installed in Latin America.



The Brazilian Vice President expressed support for Mingyang Smart Energy to plunge into the development and construction of offshore wind power, green hydrogen, green ammonia and green alcohol in Brazil

01

Management Excellence with Stable Progress

Corporate Governance

Compliance Prevention and Control

Business Ethics

Cherishing a grand vision of To Become a Global Leader in Sharing Smart and Affordable Clean Energy, Mingyang Smart Energy makes concerted progress in corporate governance, compliance operation, business ethics, digital transformation and other aspects, consolidates a foundation for development in all aspects, and forges ahead towards the goal of a world-class enterprise with excellent governance capabilities.

Key achievements in 2024

Three shareholders' meetings deliberated and approved **20** matters

12 meetings of board of directors deliberated and approved **55** matters

Seven meetings of board of supervisors deliberated and approved **29** matters

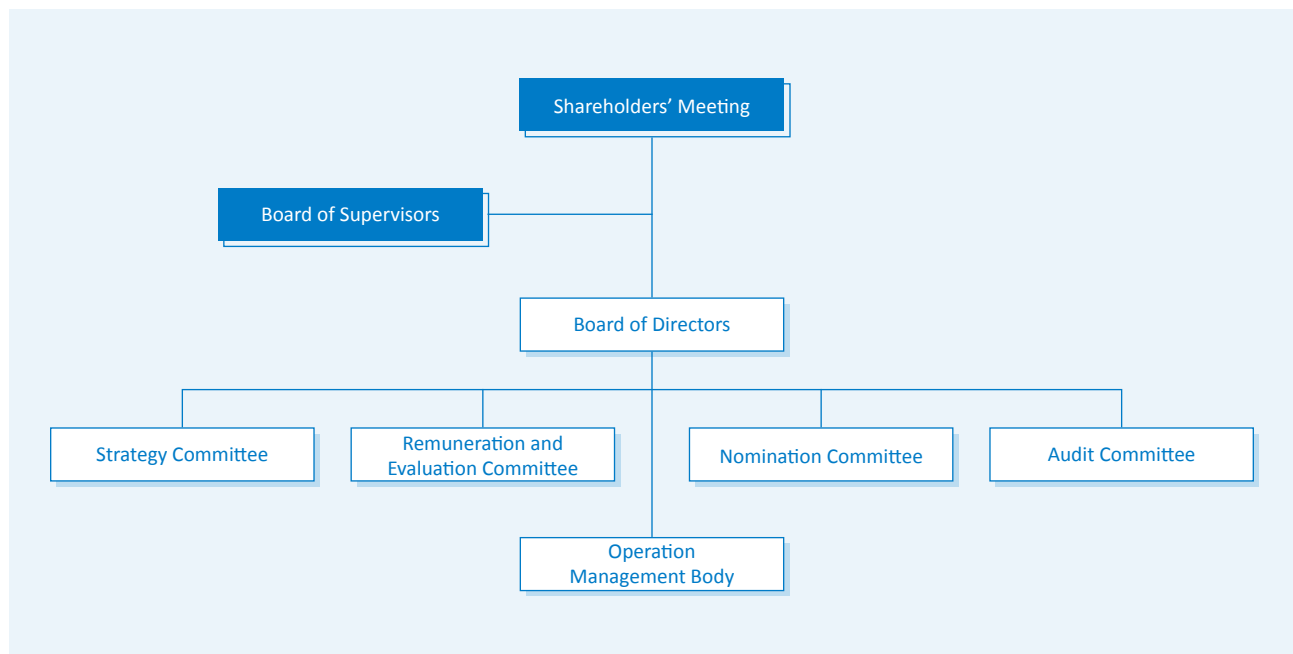
The handling rate of employee violations and business ethics violations: **100%**



Corporate Governance

Governance structure

Mingyang Smart Energy not only strictly abides by the *Company Law of the People's Republic of China* (hereinafter referred to as the "*Company Law*"), the *Securities Law of the People's Republic of China*, the *Guidelines for Corporate Governance of Listed Companies*, the *Articles of Association of Mingyang Smart Energy Group* (hereinafter referred to as the "*Articles of Association*") and other management system, but also constantly improves corporate governance structure. The responsibilities of Shareholders' Meeting, Board of Supervisors, Board of Directors and management hierarchy are clearly defined in order to perform respective duties and operate in a standardized manner, effectively safeguarding the legitimate rights and interests of the Company and shareholders.



Construction of Shareholders' Meeting, Board of Supervisors and Board of Directors

Shareholders' Meeting

Shareholders' Meeting has the highest authority of Mingyang Smart Energy. In strict accordance with the relevant provisions of the *Company Law*, the *Rules for Shareholders' Meetings of Listed Companies*, the *Articles of Association* and the *Rules of Procedure for Shareholders' Meetings of Mingyang Smart Energy Group*, Mingyang Smart Energy ensures standardized operation of shareholders' meeting, gives full play to the core decision-making role of shareholders' meeting in corporate governance, and effectively safeguards the legitimate rights and interests of shareholders. In 2024, a total of three shareholders' meetings deliberated and approved 20 motions.

In 2024,
Shareholders'
meetings

3

Motions for
deliberation
and approval

20

Board of Directors

Board of Directors is responsible to Shareholders' Meeting. In 2024, Mingyang Smart Energy held a total of 12 board meetings in lined with motion approval criteria, deliberated motions, and approved 55 important motions, such as the *2023 Annual Report of Mingyang Smart Energy Group and the Proposal on 2023 Annual Profit Distribution Plan*.

Mingyang Smart Energy attaches great importance to the independence and diversification of the board of Directors. In strict accordance with the relevant regulations and corporate governance standards, such as the *Measures for Administration of Independent Directors of Listed Companies and the Rules of Shanghai Stock Exchange for Stock Listing*, Mingyang Smart Energy constantly improves the nomination, selection and performance mechanism of independent directors and ensures a reasonable proportion of independent directors. While making progress in construction of diversification, Mingyang Smart Energy actively broadens the channels for the selection of directors, extensively attracts outstanding talents from various fields, and strives to build a board of directors with reasonable structure and complementary advantage, propping up the steady corporate development through multiple perspectives and professional capabilities.

During the reporting period, Board of Directors was composed of 11 directors with professional backgrounds in management, finance and law, including one female Director (accounting for 9.09%), seven Executive Directors and four Independent Directors. As the incumbent Independent Directors, Mr. Zhu Tao, Ms. Liu Ying, Mr. Shi Shaobin and Mr. Wang Rongchang met requirements of Stock Exchange for appointment of independent directors, and their independence was not affected. For details, please refer to the *2024 Annual Report of Mingyang Smart Energy Group*.

Director name	Gender	Age	Educational background	Title
Zhang Chuanwei	Male	62	Master	President, Chief Executive Officer, Legal Representative
Ge Changxin	Male	66	Master	Vice President
Zhang Qiyang	Male	46	Master	Director, Chief Technology Officer
Wang Jinfa	Male	60	Master	Director
Zhang Rui	Male	34	Undergraduate	Director, Director of Photovoltaic Business Line
Fan Yuanfeng	Male	55	Undergraduate	Director
Zhang Dawei	Male	60	Undergraduate	Director
Zhu Tao	Male	48	PhD	Independent Director
Liu Ying	Female	46	PhD	Independent Director
Shi Shaobin	Male	56	PhD	Independent Director
Wang Rongchang	Male	48	PhD	Independent Director

During the reporting period

Board of Directors

11 directors

Female Director

1

Executive Directors

7

Independent Directors

4



Board of Directors consists of four specialized committees: Audit Committee, Remuneration and Evaluation Committee, Nomination Committee, and Strategy Committee. These specialized committees are responsible to Board of Directors and perform their functions with the scope of the *Articles of Association* and authorization by Board of Directors. Members of each specialized committee are all composed of directors. Members of Strategy Committee, Remuneration and Evaluation Committee and Nomination Committee are mostly independent directors, and they are also the convenors. The convenor of Audit Committee is an accountant.

Specialized Committee Type	Proportion of independent directors in specialized committees	Duty	Meetings in 2024	Matters for deliberation and approval
Audit Committee	33.33%	Reviewing annual reports, quarterly reports and other major financial decisions	Five	19
Remuneration and Evaluation Committee	66.67%	Reviewing matters related to executive remuneration and equity incentives	Five	Nine
Nomination Committee	66.67%	Reviewing by-election of directors	One	One
Strategy Committee	66.67%	Reviewing strategic planning, refinancing and other major strategic direction matters	One	One

Board of Supervisors

Board of Supervisors is legally established to supervise the corporate operation and management. With direct responsibility to Shareholders' Meeting, Board of Supervisors forms and exercises functions and powers in accordance with the relevant provisions of the *Articles of Association*. At present, Board of Supervisors is composed of three supervisors, including one chairperson (Mr. Wang Limin). In 2024, a total of seven meetings of Board of Supervisors deliberated and approved 29 matters.

Investor relations management

Information disclosure

Mingyang Smart Energy formulates a series of information disclosure systems, such as the *Information Disclosure Affairs Management System* and the *Information Disclosure Suspension and Exemption Business Management System*, standardizes information disclosure behaviors, and publicly discloses financial conditions, operating conditions and major matters to investors and the public in a timely, accurate and complete manner as needed, and protects the stakeholders' right to know and right to supervise. Moreover, with dual listings in Shanghai and London, Mingyang Smart Energy fully takes into account the domestic and foreign regulatory requirements, discloses announcements in London Stock Exchange in a timely, accurate and synchronous manner as required, and ensures the compliance of information disclosure in both stock markets.

Investor protection

Mingyang Smart Energy attaches great importance to investor relations management, and strengthens communication with investors through multiple channels, such as investor relations hotline (0760-28138459), investor relations email myse@mywind.com.cn, the SSE E-Interactive (investor Q&A platform), performance presentations and roadshows, answers investors' questions about the Company in a timely manner, responds to investors' concerns in an open and transparent manner, and effectively safeguards the legitimate rights and interests of the Company and all shareholders.

Mingyang Smart Energy persistently shares the development fruits with the majority of investors, formulates the annual profit distribution plan with reference to the *Guidelines No. 3 of Shanghai Stock Exchange for Supervision of Listed Companies—Cash Dividends of Listed Companies*, the *Articles of Association* and other rules and regulations, and earnestly implements the decision-making procedures for cash dividend. Under the premise of ensuring strategic development, capital needs and solvency, Mingyang Smart Energy balances the shareholders' equity and the long-term corporate value so as not to damage the interests of the Company and shareholders, especially minority shareholders. In 2024, Mingyang Smart Energy made profit distribution for year 2023 according to the plan of paying cash dividend of RMB 3.041 (tax-inclusive) per ten shares.



Compliance Prevention and Control

Compliance management system

Mingyang Smart Energy attaches great importance to compliance management. From system building, cultural cultivation to capability improvement, Mingyang Smart Energy lays a solid foundation for compliance in all aspects. Mingyang Smart Energy establishes compliance management system covering the whole business process, and continuously optimizes and updates to ensure scientific and effective system; actively builds compliance culture, regularly carries out compliance training for employees, effectively enhances the compliance awareness of all employees, improves risk prevention ability, and builds a strong compliance defense line for long-term development. In 2024, Mingyang Smart Energy gave a total of three law-abiding and compliance trainings, and uploaded relevant courses to the proprietary Mingyang School online learning platform for use by all employees.

Three defense lines of compliance management in Mingyang Smart Energy



Audit supervision

Mingyang Smart Energy formulates and improves internal management systems, such as the *Internal Audit Reward System*, the *Internal Audit Problem Rectification Management System*, the *Internal Audit Work System*, the *Internal Control Audit System* and the *Punishment Regulations for Internal Audit* on the basis of complying with such relevant laws and regulations as the *Internal Audit Standards*, the *Basic Norms for Internal Control of Enterprises* and the *Supporting Guidelines for Internal Control of Enterprises*. Mingyang Smart Energy establishes Internal Audit Department to fulfill internal audit tasks, such as audit preparation, audit implementation, audit reporting and audit rectification. Internal Audit Department reports on the work to Board of Directors or Audit Committee on a quarterly basis. During the reporting period, Internal Audit Department implemented a total of 50 audit items, such as internal control audit, infrastructure audit, off-office audit and special audit, and put forward 114 rectification suggestions. Completion rate of rectification within the deadline reached 95.35%.

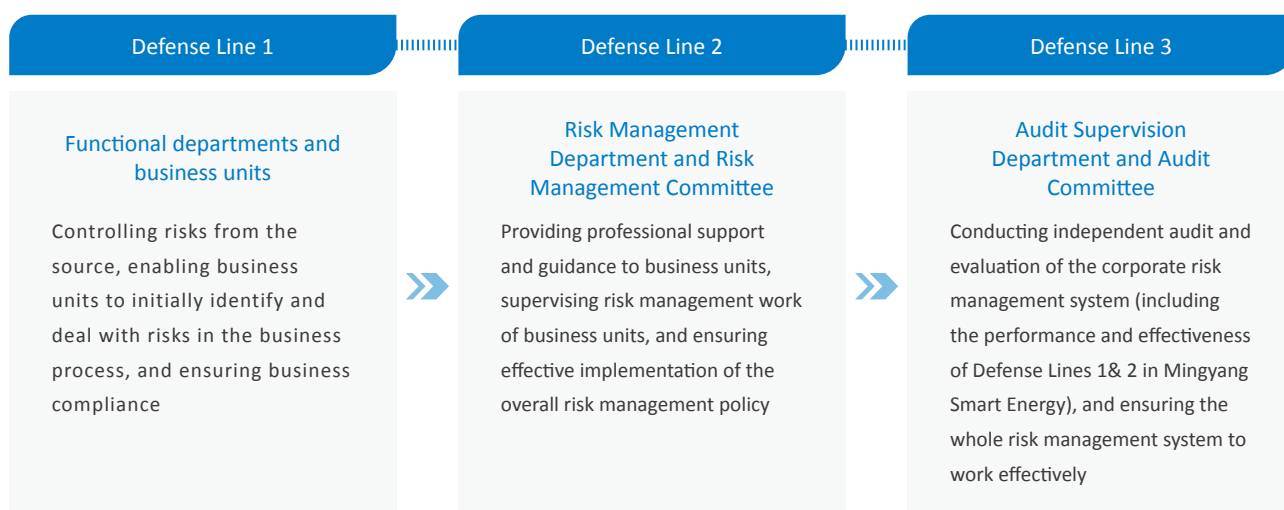
Mingyang Smart Energy sets up a three-in-one supervision and management system of “internal supervision—external supervision—collaborative supervision”. Senior management, Internal Audit Department and Legal Affairs & Risk Control Department carry out daily and special supervision on all departments and business units, while government regulators, industry associations, accounting firms and other third-party organizations carry out external supervision. Information sharing and collaborative supervision mechanisms take shape between the internal departments and between Mingyang Smart Energy and external institutions, uniting internal and external supervision forces and propelling ever-increasingly improved operation and management at company level.

Risk management

Risk management system

Mingyang Smart Energy makes risk management requirements run through management activities and business processes, builds risk management mechanism of “three defense lines”, and effectively improves risk prevention and control capability.

Three defense lines of compliance management in Mingyang Smart Energy



Risk management procedure

Mingyang Smart Energy takes COSO Internal Control - Integrated Framework, Enterprise Risk Management Framework and ISO31000 Risk Management Guide as working guidelines to build and improve risk management procedure. According to the actual understanding of business lines or abnormal phenomena, Mingyang Smart Energy applies risk identification methods for risk identification. Relevant business heads are informed of the identified risk points, corrective or preventive measures are put forward, and follow-up efforts are made for rectification implementation results. For individual risks possibly hindering goal realization, the rectification implementation results are submitted to Human Resources Department for inclusion in the performance appraisal.

Extended Reading

COSO Internal Control - Integrated Framework: Initiated and developed by The Committee of Sponsoring Organizations of the Treadway Commission (COSO) under the National Commission on Fraudulent Financial Reporting, COSO Internal Control - Integrated Framework is an important touchstone in the field of corporate internal control. This framework presents five closely-linked elements, namely, Control Environment, Risk Assessment, Control Activities, Information and Communication, and Monitoring. By setting the tone of the organization, identifying and analyzing risks, implementing control policies, ensuring unimpeded information and maintaining continuous supervision and improvement, this framework helps enterprises optimize operational processes, contribute to accurate and reliable financial reports, and ensure compliance-based operation.

Business Ethics

| Anti-bribery & corruption (ABC)

System construction and operation

Mingyang Smart Energy attaches great importance to anti-bribery and corruption work. All new employees are required to sign *Integrity Agreement*, *Confidentiality Agreement*, *Employee Letter of Promise for Integrity and Self-Discipline* and other internal documents on business code of conduct at the time of induction. Corruption, bribery, abuse of power, dereliction of duty, power rent-seeking, illegal transfer of benefits, favoritism and fraud, money laundering and other illegal activities in any form are strictly prohibited.

Mingyang Smart Energy establishes Discipline Inspection and Supervision Department with special responsibilities for: 1) Supervising and inspecting employees' compliance with the Party discipline, national laws and the corporate rules and regulations; 2) Investigating and dealing with the behaviors suspected of commercial bribery, bribery and corruption; 3) Accepting reports and complaints from employees; 4) Launching integrity education and publicity.

Mingyang Smart Energy has formulated the *Anti-fraud Management System*, the *Management Measures for Discipline Inspection and Supervision*, the *Management Measures for Efficiency Supervision*, the *Management Measures of Discipline Inspection and Supervision Department for Problem Clues and other measures*, further standardizing various business processes of the department, ensuring that all work tasks have rules to follow and base on the evidences, and effectively making anti-commercial bribery and corruption work bear fruit.

Mingyang Smart Energy has formulated the *Code of Conduct for Sustainable Development of Suppliers* to expressly stipulate a zero-tolerance policy for bribery of suppliers and prohibit any form of bribery, corruption, extortion and embezzlement involved with governments, enterprises and public institutions within the scope of services, in an effort to effectively maintain a fair and just business climate.

Risk management

In terms of risk identification, Mingyang Smart Energy regularly conducts inspections and self-inspections of procurement, sales, project tendering and bidding, financial reimbursement and other core processes, incisively detecting potential risk points of power rent-seeking and illegal transfer of benefits in various processes. Efforts are made to actively strengthen cross-departmental coordination mechanism, exert more efforts for communication with other functional departments, understand and analyze whether there are commercial bribery and corruption clues related to the Company. Discipline Inspection and Supervision Department is responsible for initial verification of such clues, judging the authenticity of such clues, and ensuring that whistleblowing matters are properly handled.

In terms of risk assessment and response, Mingyang Smart Energy compiles *Manual on Integrity Risk Prevention and Control* based on the existing management bodies at all levels and the available positions. According to this Manual, integrity risks fall into three categories according to the occurrence frequency and degree of harm: Category A (Major Risk), Category B (High Risk), and Category C (General Risk), while the corresponding punishments are expressly stipulated. For those persons directly liable for committing acts of Category A (Major Risk) in violation of red line or causing severe harms, they will be imposed with severe disciplinary punishment, including dismissal and legal liability investigation. For those persons directly liable for committing acts of Category B (High Risk) or causing minor harms, they will be imposed with administrative punishments, such as warning, criticism in a circulated notice, demerit recording, dismissal and demotion, as the case may be. For those persons directly liable for the occasional and less harmful acts of Category C (General Risk), moderate administrative punishments will be taken, such as warning, criticism in a circulated notice, demerit recording, and suspension from work while the case is being investigated.

During the reporting period,

Discipline Inspection and Supervision Department gave full play to supervision function, completed all established business ethics supervision matters, and achieved standardized handling rate

100%

Trainings






Mingyang Smart Energy constantly strengthens mentoring for integrity and self-discipline in daily operation. On a regular basis, special trainings on anti-commercial bribery and corruption are launched to expound on laws and regulations, publicize corporate policies, analyze typical cases and illustrate other contents, enhancing employees' awareness of integrity and making every effort to create a clean and honest enterprise ecosystem. In 2024, Discipline Inspection and Supervision Department offered 12 training sessions themed with integrity, with focus on professional ethics, integrity, laws, regulations and other contents, benefiting more than 2,000 trainees.

Whistleblowing mechanism and whistleblower protection

Mingyang Smart Energy actively encourages internal and external stakeholders to whistleblow and complain about the employees' violations of integrity criteria and business ethics. Vested with immediate responsibility, Discipline Inspection and Supervision Department will properly handle such violations according to the Management Measures for Discipline Inspection and Supervision and relevant regulations.

Mingyang Smart Energy, in every possible way, protects the legitimate rights and interests and personal safety of whistleblowers, takes confidential measures for any complaints and whistleblowing, and prohibits any employee from retaliating against the whistleblowers in any form. In case of retaliation in any form or to any extent, a whistleblower may immediately contact Discipline Inspection and Supervision Department, and then Discipline Inspection and Supervision Department will take effective measures to protect the whistleblower.

Means of Whistleblowing:

-  Letter: Mail the letter enclosed with whistleblowing materials to Discipline Inspection and Supervision Department
-  Visit: Whistleblow at reception place established or designated by Discipline Inspection and Supervision Department
-  Email: audit@mywind.com.cn
-  Tel: 18344480760
-  Website: Whistleblowing section in the portal website of OA Discipline Inspection and Supervision Department, or WeChat account Lian Jie Mingyang (Integrity Mingyang)



KPI

During the reporting period,

Signature rate of *Letter of Commitment to Integrity and Self-discipline* at the time of employee induction

100%

Handling rate of business ethics violations

100%

Training sessions themed with integrity

12

Trainees

2,000⁺

| Anti-unfair competition

Mingyang Smart Energy strictly abides by the *Anti-unfair Competition Law of the People's Republic of China* and relevant laws and regulations, and adheres to the concept of management in good faith and fair trade. In October 2024, Mingyang Smart Energy acceded to *Chinese Wind Power Industry Self-Regulation Convention to Maintain Fair Competition Environment in the Market* and jointly made a public commitment to firmly opposing unfair competition and monopoly behavior, upholding the principle of market fairness, and never selling products below the cost price without justified reasons. This crystalizes firm determination of Mingyang Smart Energy to maintain sound and orderly development of the industry.

In the key nodes of project tendering and bidding, Mingyang Smart Energy proactively sends *Contact Letter on Integrity and Self-discipline of Suppliers and Demanders* to suppliers to clearly request that suppliers and demanders must strictly uphold the integrity and self-discipline guidelines in the field of mutual cooperation, and prohibits funneling of improper interests to any employee in any form (including cash, red packet, gift, shopping card, non-work dinner and so on). During the reporting period, Mingyang Smart Energy had neither litigation case involved with unfair competition, nor was subjected to major administrative penalty.



02

Green Development with Wind Power

Response to
Climate Change

Devotion to
Environmental
Management

Promote Energy
Conservation and
Emission Reduction

Explore the
Circular
Economy

Mingyang Smart Energy engraves green genes and concepts into all nodes of product design, manufacturing, sales, operation and maintenance. Energy service and management mode innovations, based on big data and blockchain, pave the way for interconnection and efficient use of green energy. Mingyang Smart Energy develops green value mindset among customers, owners and the whole society.

Key achievements in 2024

Participant in compilation of **six** national standards for the wind power industry

More than **95%** of blade materials were recycled



Response to Climate Change

Mingyang Smart Energy regards the response to climate change as a core strategic topic, actively takes actions in response to climate change, and makes response to climate change run through full-life-cycle business management. As of November 2024, Mingyang Smart Energy has registered a global cumulative installed capacity of nearly 100 GW, with over 1,500 new energy projects operational worldwide. Our nearly 20,000 onshore and offshore wind turbines generating environmental benefits equivalent to the reduction of annual CO₂ emissions by 152 million tons or planting 8.7 billion trees yearly, thus contributing to global sustainability.

As of November 2024,

Global cumulative installed capacity of nearly

100GW

Environmental benefits equivalent to annual CO₂ emission reductions

152 million tons

Global new energy projects in operation

1,500⁺

Equivalent to annual tree planting

8.7 billion

Onshore and offshore wind turbines in operation of nearly

20,000

Climate risk management

Identifying, analyzing and managing climate-related risks and opportunities are an important part of a comprehensive strategy in response to climate change and of critical significance to the medium - and long-term sustainability plans of Mingyang Smart Energy. With reference to the Task Force on Climate-Related Financial Disclosure (TCFD) recommendations, Mingyang Smart Energy identifies, analyzes and manages climate risks and opportunities with significant potential impacts, with considerations to business characteristics, internal and external market development environments, and opinions from experts and advisors.

Disclosure of four key elements of the Response to Climate Change topic

Governance

We have established an ESG management organization with ESG Management Committee as the highest decision-making body. ESG Management Committee has incorporated the risks and opportunities related to climate change into ESG management framework. Please refer to “ESG Management” section of this Report for detailed information on the responsibilities and functions at each management hierarchy.

Strategy

We use the two Shared Socioeconomic Pathways (SSPs) of the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), SSP1-2.6 (low emission scenario) and SSP5-8.5 (high emission scenario), to analyze the risks and opportunities of Mingyang Smart Energy under different climate scenarios.

A. Scenario selection

Scenario type	Scenario	Scenario source	Scenario application description
High-emission scenario	SSP5-8.5	IPCC AR6	<ul style="list-style-type: none"> This scenario assumes that due to the continued exploitation of fossil fuels as the primary energy source to fuel global economic growth, high levels of greenhouse gas emissions are projected until 2100, which may exacerbate the extreme weather events. Under this scenario, the failure of governments and markets to implement effective climate interventions would lead to a sharp increase in greenhouse gas emissions, while enterprises are accordingly exposed to more physical risks.
Low-emission scenario	SSP1-2.6	IPCC AR6	<ul style="list-style-type: none"> This scenario envisions a swift transition from an economy reliant on fossil fuels to one driven by renewable energy., countries are projected to implement rigorous climate mitigation strategies, aimed at limiting global warming to 2.0°C above pre-industrial levels (circa 1850) in the 21st century. Under this scenario, to achieve a low-carbon economic environment, policy regulations are expected to become increasingly stringent, and enterprises may be encountered with elevated transition risk.

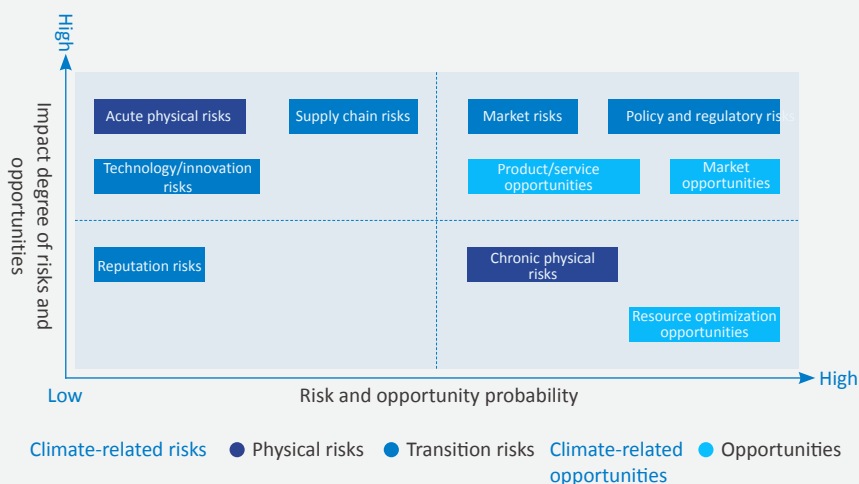
B. Climate risk assessment process

Based on business profile and strategy landscape of Mingyang Smart Energy, we evaluate climate-related risks and opportunities with the input of external experts, and build a climate-related risk and opportunity matrix in view of assessment results. We will constantly improve the response mechanism to climate-related risks and opportunities by identifying the substantive nature of risks and opportunities according to their probability and impact.



C. Climate-related risk and opportunity analysis matrix

Based on business profile and strategy landscape of Mingyang Smart Energy, we evaluate climate-related risks and opportunities with the input of external experts, and build a climate-related risk and opportunity matrix in view of assessment results. We will constantly improve the response mechanism to climate-related risks and opportunities by identifying the substantive nature of risks and opportunities according to their probability and impact.

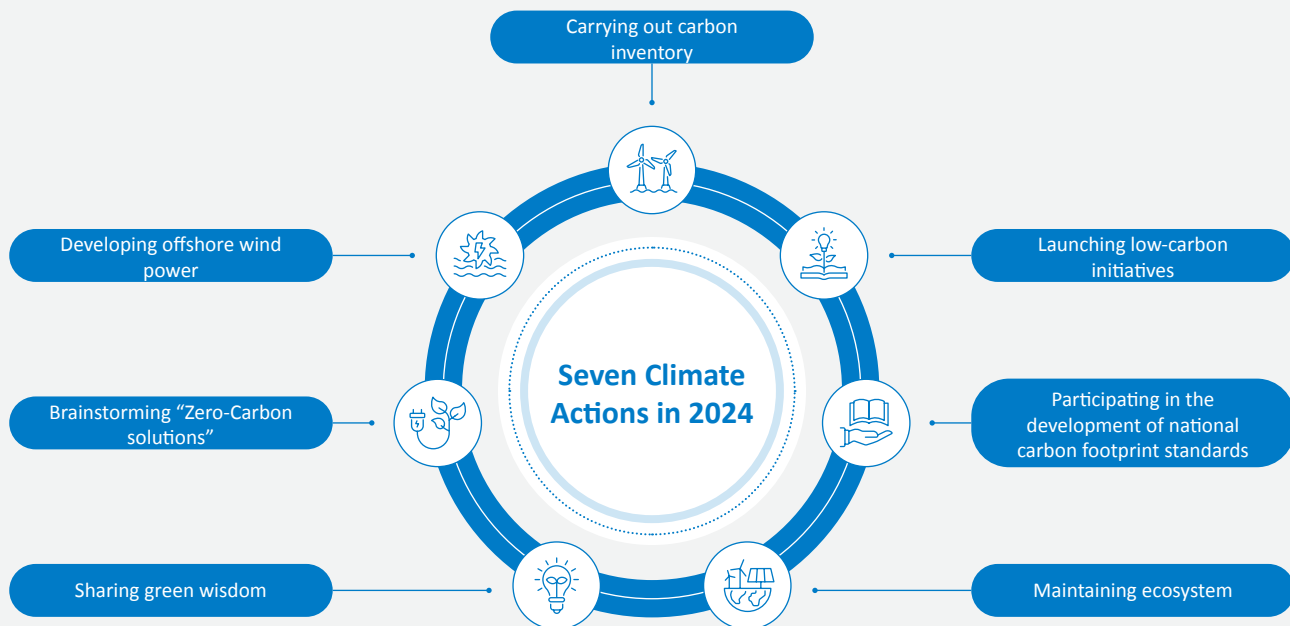


D. Analysis for potential financial impact of climate-related risks

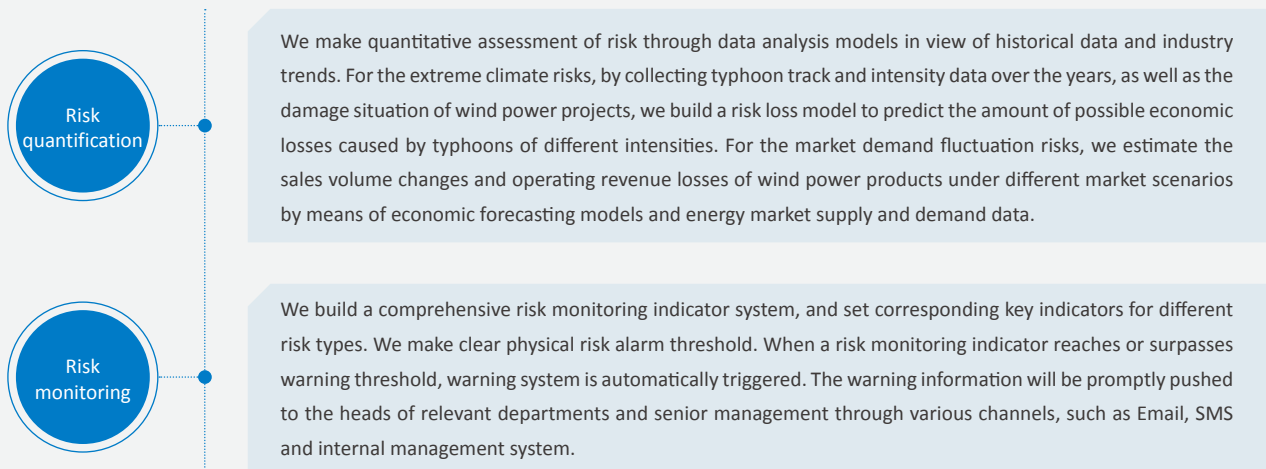
Type of risk and opportunity	Specific description	Impact timeframe	Value chain node	Potential impact/financial impact
Physical risks				
Acute physical risks (extreme natural disasters)	Climate change leads to an increase in the frequency of extreme weather events and natural disasters, such as heavy rainfalls, floods, and typhoons. This may result in the instability of wind resources, disrupt the normal operation of wind turbines, and aggravate risks associated with business operations, product sales and maintenance services of the Company.	Short term	Operation	Operating cost ↑ Operating revenue ↓ Value of fixed assets ↓
Chronic physical risks (long-term climate change)	Global warming and the associated rise in sea levels pose significant threats to many coastal and low-lying cities. This may directly affect production operations, medium- and long-term business strategies of the Company, as well as offshore wind turbines.	Long term	Operation	Operating cost ↑ Value of fixed assets ↓
Transition risks				
Policy and regulatory risks	Domestic and international climate-related laws, regulations and industry standards are becoming progressively more stringent. The introduction of new policies and regulations may expose the Company to corresponding regulatory scrutiny, litigation and other risks. Due to the increasing global demand for low-carbon and renewable energy, changes may take place in policies and subsidies for clean energy. Such policy adjustments may negatively affect business growth and profitability of the Company.	Medium and long term	Operation	Operating cost ↑
Market risks	Despite robust growth of clean energy industry, the pace and trajectory of the global energy transition might not align with projections. A slower-than-expected adoption of clean energy in the global market may hinder return on investment and strategic development plan of the Company.	Medium and long term	Products and services	Operating revenue ↓
Reputation risks	Stakeholders are increasingly emphasizing the significance of addressing global warming and climate change, and they have increasingly higher expectations for corporate contributions to mitigating the climate crisis. The failure to take appropriate actions to combat climate change may undermine the brand image of the Company, leading to diminished business value and reputational damage.	Medium and long term	Operation, products and services	Operating revenue ↓
Supply chain risks	The manufacturing of wind turbines heavily relies on supply chain stability. Supply chain problems, such as shortages of raw materials, production delays or escalating costs, may adversely affect overall performance of the Company.	Short and medium term	Products, services and logistics	Operating cost ↑ Operating revenue ↓
Technology/innovation risks	As a technology-driven enterprise, Mingyang Smart Energy must allocate more substantial time and resources toward technology R&D and innovation. The uncertainties surrounding the duration required for R&D and the commercialization of innovative outcomes imply risks of high investment with delayed returns, potentially threatening capital chain of the Company.	Medium and long term	R&D	Operating cost ↑

Type of risk and opportunity	Specific description	Impact timeframe	Value chain node	Potential impact/financial impact
Opportunities				
Market opportunities	The Company proactively seeks after opportunities in the emerging green economy market, diversifies operations by engaging in carbon asset trading, carbon sink development, and green investment and financing initiatives, thereby securing a leading position in the comprehensive transition toward a low-carbon economy.	Long term	Products and services	Operating revenue↑
Product/service opportunities	The company innovates and develops new low-carbon products and services to align with evolving market demands and shifting consumer preferences, thus enhancing revenue streams, bolstering reputation, and increasing business volume.	Short and medium term	Products and services	Operating revenue↑
Resource optimization opportunities	The Company expedites resource integration, adds investments in energy saving and emission reduction, constructs more energy-efficient office spaces, and builds low-carbon infrastructures through technological upgrades and deployment of energy-saving equipment. These efforts effectively reduce water, electricity and gas consumptions in buildings, minimize resource utilization, and lower indirect operating cost.	Short term	Operation	Operating cost↓

E. Enforcement of annual climate risk response actions

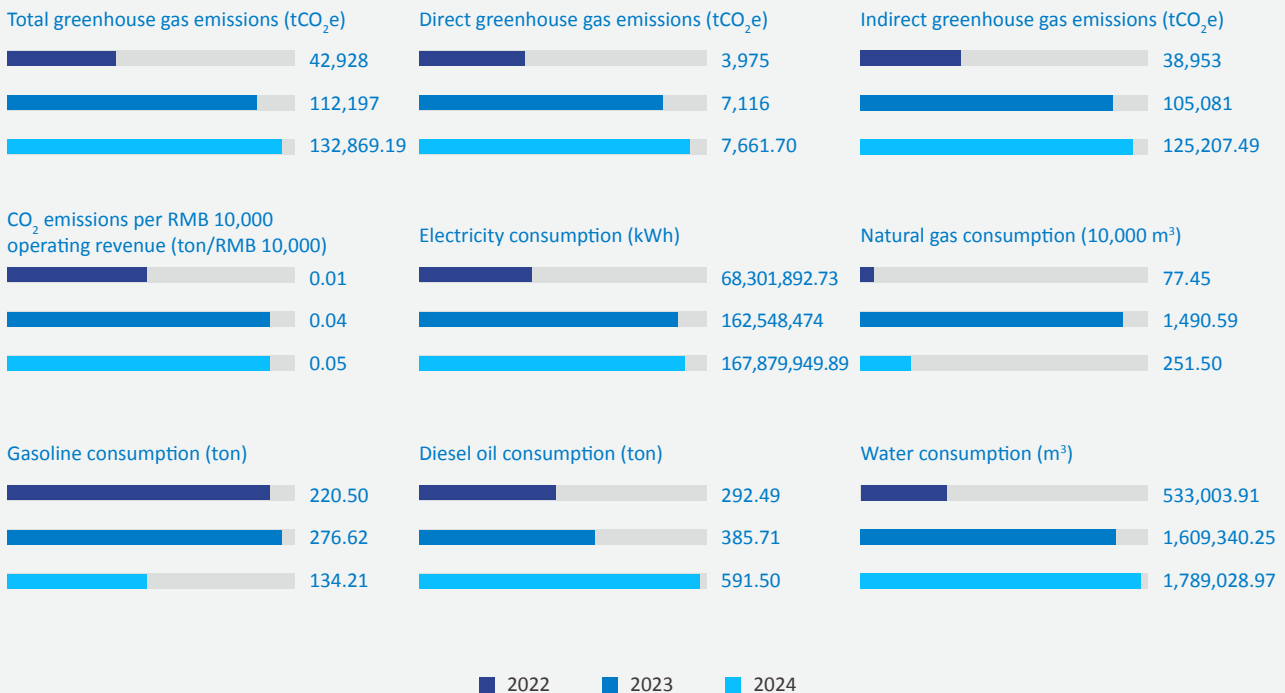


Risk management



Indicators and Goals

We take carbon emission, energy consumption, water resource and other environmental indicators as climate change-related tracking indicators, and actively conduct carbon footprint accounting in the Company. More information and progress in the indicators and goals can be found in the section of "Promoting Energy Conservation and Emission Reduction" hereunder and Key Performance Table in the appendixes.



*The gasoline consumption and diesel consumption in the previous ESG reports were measured in liters. The data of the 2024 ESG report are converted on the basis of historical data. The density of gasoline and diesel is respectively about 0.73 g/ml and about 0.85 g/ml.



Carrying out carbon inventory

In 2024, we conducted our first comprehensive audit of Scope 3 greenhouse gas emissions for the year 2023. The audit covered the entire value chain of our operations, including upstream and downstream activities in sectors like turbine manufacturing, blades, towers, films, and energy storage. We analyzed carbon emissions from procurement, capital goods, fuel and energy use, transportation, and waste management to understand our overall carbon footprint, laying a solid foundation for future emission reduction plans. The audit calculated that our Scope 3 carbon emissions in 2023 amounted to 6,217,699 tCO₂e.

Developing offshore wind power

In December, floating wind power platform Mingyang Tiancheng”, independently developed by Mingyang Smart Energy and featuring the largest standalone capacity in the world, was commissioned at Qingzhou IV Offshore Wind Farm in Yangjiang. Equipped with two 8.3 MW offshore wind turbines, Mingyang Tiancheng has gross capacity of 16.6 MW, with swept area equivalent to seven standardized football pitches. Wind turbines are expected to supply green electricity of about 54 GWh annually on average and meet the annual electricity demand of about 30,000 families of three. After commissioning, this project will significantly reduce CO₂ emissions through the replacement of thermal power with wind power, decrease reliance on traditional fossil fuels, reduce pollutant emissions at the source, and effectively propel the global Zero-Carbon green development.

With the supreme innovative design and contribution to green development, Mingyang Tiancheng won 2024 World Green Design Award presented by the World Green Design Organisation (WGDO), becoming the one and only case in the global wind power industry to receive this award. In September, Mingyang Tiancheng was also selected into Excellent Practice Cases on Green and Low-carbon Enterprise Development for the Year 2024 jointly sponsored by *China Energy News* and China Institute of Energy Economics.

Brainstorming “Zero-Carbon Solutions”

Constructing “Zero-Carbon Park”

Mingyang Smart Energy builds energy-saving and environment-friendly green “Zero-Carbon park” through decentralized energy construction, matched energy storage devices and intelligent energy management system, balancing energy supply and demand in the park. Comprehensive energy saving measures, such as air compressors and electrical energy-saving equipment, are taken to reshape energy consumption mix, achieving 100% green electricity coverage in the industry park from the source, and blazing the path of low-carbon industrial transformation.

Facilitating “Zero-Carbon Event”

In November, the 12th National Traditional Games of Ethnic Minorities of the People’s Republic of China raised the curtain in Sanya, Hainan Province. Mingyang Smart Energy provided technical solutions for this “Zero-Carbon event” and was honored with the title of “Zero-Carbon Event” Project Promoter.

- At preparation stage, Mingyang Smart Energy thoroughly analyzed the carbon emission accounting scope, technical specifications and implementation steps of the event in accordance with the *Carbon Neutrality Implementation Guide for Large-scale Events (Trial)*. A carbon emission accounting and publicity scheme, covering the whole cycle of event preparation, execution and conclusion, was meticulously designed.
- Throughout the event, Mingyang Smart Energy continuously tracked the implementation of carbon neutrality solutions and ensured that venues and related facilities received stable and sufficient green electricity, significantly reducing carbon emissions during event operation.



Issuing green fund

In March, Mingyang Smart Energy successfully applied for new energy publicly offered REITs project, marking a significant step toward promoting the development of the new energy industry. As China's first publicly offered REIT for onshore wind power and publicly offered REIT of private enterprise for wind power, this project will advance the securitization of high-quality new energy assets, revitalize high-quality assets in stock, form a virtuous cycle of investment and financing, and push new energy power station operation mode of the Company into a new stage of diversified development. This contributes significantly to the green transition of China’s energy mix and carbon peaking and carbon neutrality strategy.



China Securities—MYSE New Energy REIT (508015), China's first publicly offered REIT for onshore wind power with approval, was listed

Sharing green wisdom

In November, Mingyang Smart Energy was invited to attend the 29th Session of the Conference of the Parties (COP29) to the United Nations Framework Convention on Climate Change and shared Chinese wind power technologies, proprietary global solutions, and relevant cases, actively unleashing unique wisdom to accelerate the global clean energy transition and address global climate change.

Case: Zero-Carbon Solutions of Mingyang Smart Energy made debut in international stage, showcasing China's "green wisdom" to the world

At the press conference hall of the *United Nations Framework Convention on Climate Change* (UNFCCC) COP29 and China Corner on "Energy Day", Mingyang Smart Energy globally released China Story on "Zero-Carbon Clean Energy Supply System Project of Mingyang Industry Park in Xilin Gol League", demonstrating China's practical actions to combat climate change, new progress, achievements and contributions in the renewable energy realm, and contributing to the development of global renewable energy with China's strengths.

This project features wind turbine, distributed rooftop photovoltaic system and electrochemical energy storage. The total annual power generation from the system and photovoltaic power exceeds 20 GWh, fully meeting the clean power demand for electricity and heating in the industry park. Under the system project, an integrated intelligent management platform for power supply, grid, load and energy storage, and an intelligent energy management platform shape up, realizing ubiquitous energy information interconnection, and promoting the deep integration of informatization and industrialization. Surplus electricity is externally sold via the grids. This project is projected to annually reduce standard coal consumption by about 6,576 tons and CO₂ emissions by 17,500 tons, and significantly reduces SO₂, NO_x, and dust emissions.

By virtue of satisfying economic and social benefits, "Zero-Carbon Clean Energy Supply System Project of Mingyang Industry Park in Xilin Gol League" was included in *Zero-Carbon China Story* and won China Industrial Sustainable Development Exploration and Practice Case Award by *Forbes* and China's Top Ten Typical Cases on Carbon Neutrality Demonstration by China Energy Research Society.



The total annual power generation from the system and photovoltaic power

20 GWh+

This project is projected to annually reduce standard coal consumption by about

6,576 tons

Reduce CO₂ emissions by

17,500 tons

Launching Low-carbon initiative

In September, Mingyang Smart Energy was invited to attend the 2024 Tsinghua University Carbon Neutrality Economy Forum. President Zhang Chuanwei delivered a keynote speech entitled Pillar of a Major Country under New Quality Productive Forces, calling on the public to focus on the development of new energy and marine energy. Zhang Chuanwei joined hands with Li Luming, Academician of the Chinese Academy of Sciences and President of Tsinghua University, Ma Yongsheng, Academician of the Chinese Academy of Engineering and President of China Petrochemical Corporation, and other guests to drive “carbon” exploration wheel with green power.

Also in September, Mingyang Smart Energy also attended an important thematic forum of China International Fair for Trade in Services hosted by the Ministry of Commerce and People's Government of Beijing Municipality—The Third Academician Forum on Ecological and Environmental Protection Industry Serving Carbon Peaking and Carbon Neutrality Strategy. During Low-Carbon Initiative Segment of this forum, Liu Lianyu, Deputy Secretary of the Party Committee of Mingyang Group, and many pro-environment entrepreneurs jointly launched Initiative of “Low Carbon at My Side and Environment Entrepreneurs in Action”, advocating for accelerated green development, jointly developing ecological civilization, and making united efforts to build a beautiful world.



Initiative of “Low Carbon at My Side and Environment Entrepreneurs in Action” at the Third Academician Forum on Ecological and Environmental Protection Industry Serving the Carbon Peaking and Carbon Neutrality Strategy

Participating in the development of national carbon footprint standards

Mingyang Smart Energy participates in the compilation of national standards for the wind power industry, including *Wind Energy Generation Systems—Life Cycle Assessment Specification for Wind Turbines* and *Carbon Footprint Accounting Standards for Different Components and Products of Wind Turbines*, promoting standardization of technical methods and accounting criteria for carbon footprints of wind turbine products. These national standards are useful for wind power enterprises to accurately quantify carbon emissions, clearly grasp emissions in various nodes, identify key emission reduction nodes, and develop pertinent measures to contribute to achieving domestic and global carbon reduction targets.



Mingyang Smart Energy, a participant in compilation of six national standards for the wind power industry

Maintaining ecosystem

Biodiversity conservation

Recognizing that ecological environment is the foundation of human survival and development, Mingyang Smart Energy, an activist in biodiversity protection, carries out regular artificial breeding and releasing activities to reasonably compensate fishery resources. Mingyang Smart Energy periodically selects local alternative species suited for artificial breeding and releasing to introduce them into natural water bodies, augmenting the population of target species, protecting and rehabilitating the populations of endangered or declining species, and enhancing the ecological functionality of the aquatic environment.



Protection of life on land

Given that the construction and operation of wind turbines may potentially affect birds and their habitats, Mingyang Smart Energy adopts non-reflective materials for coating in the blade manufacturing process to mitigate the visual impact of blades on birds, reducing the likelihood of bird collisions with wind power infrastructure. Additionally, Mingyang Smart Energy establishes dedicated bird observation and rescue center and utilizes advanced radar monitoring systems to track bird flight path in real time. This enables the prediction of potential collision risks between birds and wind turbines, also providing valuable references for the development of scientifically informed conservation strategies.



Protection of life below water

Before offshore projects commence, Mingyang Smart Energy avoids construction for fish spawning grounds in maritime projects, completely shunts submarine cable and pile foundation construction periods from spawning season of *Priacanthus tayenus* during May-July, and escorts fish spawning and reproduction. During the project construction period, we establish both danger zone and warning zone to monitor fish activities. For instance, in the piling process of wind turbines on pile foundation, a danger zone is designated within 450 meters from the center of the pile foundation, while a warning zone is designated within approximately 4.5 kilometers from the center of the pile, where we take measures to potentially drive or relocate fish activities in order to minimize harm to fish.

Maintaining ecosystem

For terrestrial ecological protection, Mingyang Smart Energy conducts comprehensive ecological environment surveys prior to the site selection of land-based power station projects, with focus on natural conditions, such as site constraints (basic farmlands, ecological red lines, natural forests, overburden mines, administrative boundaries, etc.), topography and geomorphology (mountains and vegetation), hydrometeorology (construction during rainy season, flood control, etc.), avoiding selection of areas with high ecological risks. Additionally, Mingyang Smart Energy develops on-site and off-site heavy cargo transportation schemes, machine positioning strategies and site lifting schemes in advance, minimizing damage to the local terrain and surrounding environment.

Devotion to Environmental Management

Environmental management system

Mingyang Smart Energy strictly complies with relevant laws and regulations, including the *Law of the People's Republic of China on Environmental Protection*, the *Law of the People's Republic of China on Prevention and Control of Water Pollution*, the *Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution*, the *Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste*, and the *Law of the People's Republic of China on Prevention and Control of Environmental Noise Pollution*. An environmental management system takes shape in Mingyang Smart Energy in accordance with the requirements of ISO 14001:2015 Environmental Management System Standards. Mingyang Smart Energy develops and implements *Compilation of Environmental Protection Management Systems* to reinforce environmental protection requirements across all aspects of business operations. Currently, Mingyang Smart Energy has successfully obtained ISO 14001 Environmental Management System Certification.



ISO 14001 Environmental Management System Certificate issued to Mingyang Smart Energy

Environmental management structure

To give full consideration to environment-related matters in the Company's decision-making process, we establish EHS Management Committee. Furthermore, we define the responsibilities of EHS Management Committee at various levels, form top-down three-tiered environmental management structure, keep communication and collaboration on environment-related matters unimpeded, and facilitate effective integration of internal and external resources.

Environmental management goals

We set environmental management goals, advance compliance operation across the Company, and strengthen integration of the objectives and the businesses. We include environmental management goals into department-level performance assessment, and ensure that relevant responsibilities are fulfilled.

Environmental management goal

Progress

➤ 0 EHS-related administrative penalty incident

Fulfilled



Practising green construction

The concept of green construction runs throughout the project construction process.

Before project construction

The project department, supervisor and constructor respectively develop the overall plan for green construction and hold special meetings so that three sides can reach an agreement and have consistent goals.

During project construction

Dust reduction

At least two watering trucks are in place to water the construction roads at least twice a day, reducing dust pollution and meeting dust control objectives. Spoil piles are covered with tightly woven fabric, and edge protection is implemented to prevent sand flow. Roadbed slopes are covered with soil and seed grass for the greening purpose. The concrete mixing stations, built by the constructor, must be fully closed, with only entrances and exits reserved for concrete tank trucks and subjected to strict control over flying dust. Environmental impact assessment procedures must be completed locally before the concrete mixing stations are put into operation.

Garbage treatment

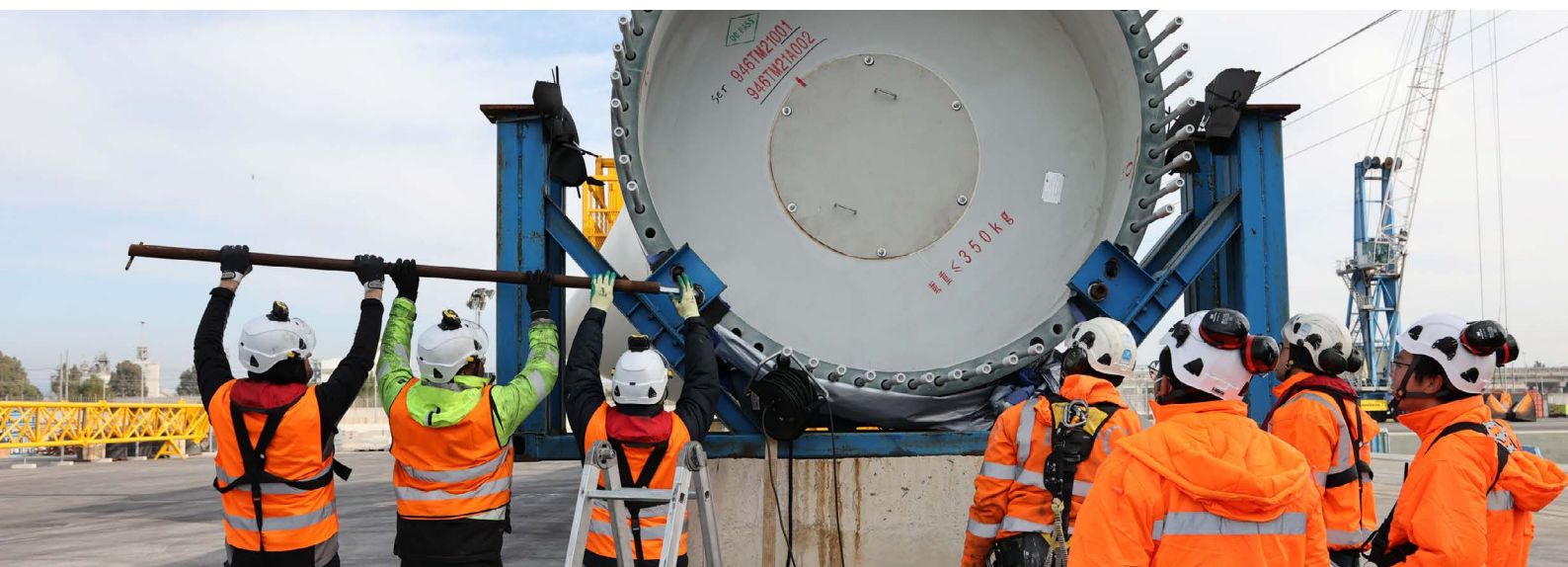
Construction waste, domestic waste and feces are classified for separate treatment in the construction areas and living quarters. An agreement is concluded with the local garbage collection station for transportation and treatment on a weekly basis.

Hazardous chemicals

Hazardous chemicals, such as paint and oil products, must be tightly sealed and kept separately at a distance away from offices and living quarters. Additional pallets are in place to prevent oil leakage and subsequent contamination. Domestic sewage is discharged after it passes through the sewage treatment system. A sedimentation tank can be also built to make domestic sewage transported and treated by the garbage collection station on a weekly basis.

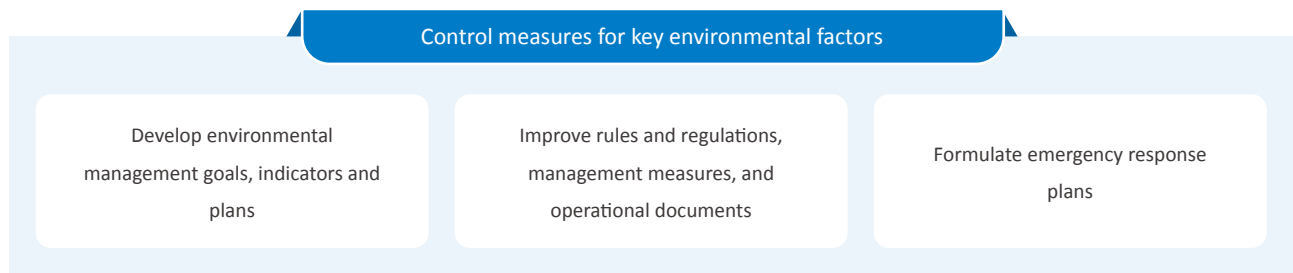
Water conservation management

Domestic sewage is discharged after it passes through the sewage treatment system. A sedimentation tank can be also built to make domestic sewage transported and treated by the garbage collection station on a weekly basis. Keep oil and hazardous chemicals at least 1 km away from domestic water wells to avoid domestic water from being polluted at the source.



Implementing environmental monitoring

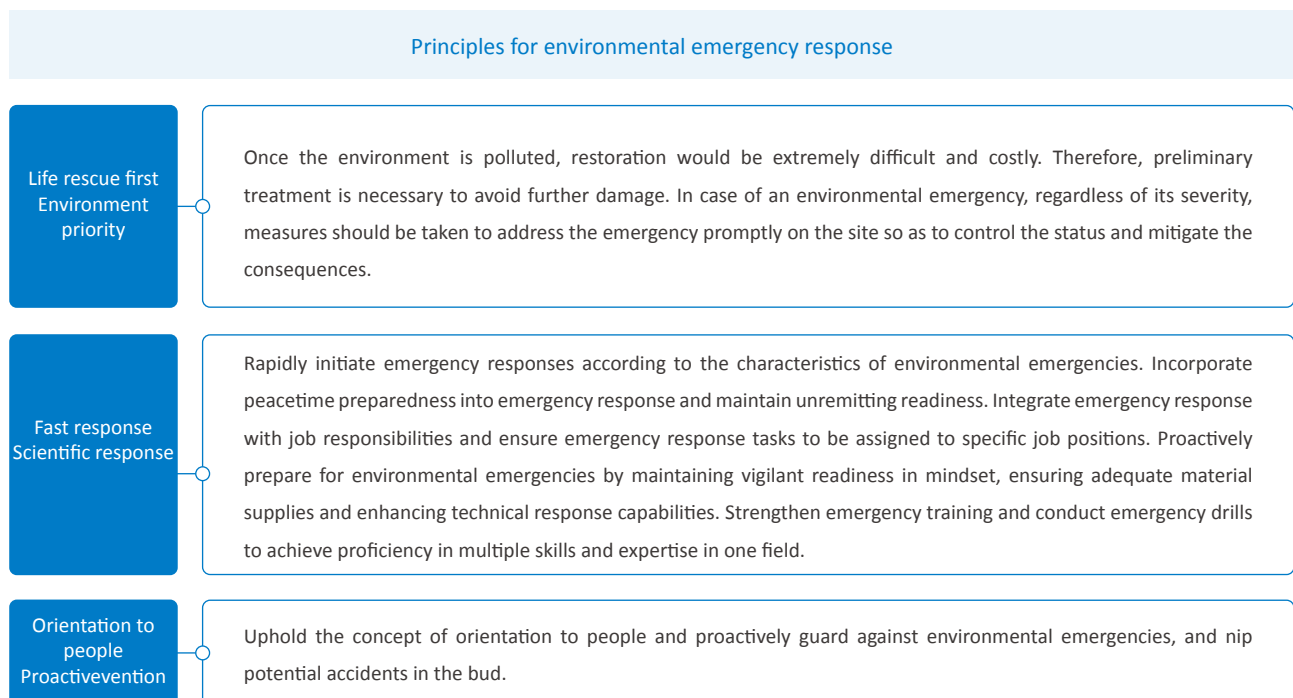
To effectively identify and evaluate such environmental factors that can be controlled or influenced in production and operation activities, products, or services, and control key environmental factors, the Company formulates and issues the *Management Measures for Identification and Evaluation of Environmental Factors*, clarifying the scope, methods, steps, and review procedures for the identification of environmental factors.



In line with Management Measures as mentioned above, we actively take environmental monitoring actions on multiple dimensions, such as hydrological dynamics, marine ecology, fishery environment, marine water quality, sediment monitoring, as well as topographic & geomorphic surveys and erosion & deposition observations. With the data obtained from professional monitoring, we profoundly evaluate the health of the above ecosystems, promptly detect potential environmental pollution risks and take preventive measures. Meanwhile, these efforts furnish substantial and reliable scientific evidence and detailed data support for the formulation of accurate and effective environmental protection plans and management strategies in the future.

Environmental emergency response mechanism

We normalize post-event response processes, formulate environmental warning and emergency response plans, enhance our capabilities of tackling environmental events, avoid or mitigate their impacts, and strengthen alignment with governmental response efforts.



Organizing trainings on environmental protection

We constantly strengthen training work on environmental protection and ensure that every employee receives environmental protection training at least once a year. Training contents cover interpretation of laws and regulations about environmental protection, elaboration of the corporate environmental protection policies and goals, explanation of major environmental factor control measures, introduction of pollution prevention and treatment facilities, as well as analysis of typical environmental accidents, and the popularization of basic knowledge about prevention against environmental accidents. The systematic trainings help employees gain more insights into environmental issues, guide employees to establish correct awareness of environmental protection, and enhance the environmental literacy for all employees.

Amplifying green voice

Mingyang Smart Energy lightens green life with clean energy, amplifying green voice through down-to-earth actions. In 2024, we stayed dedicated to public welfare environmental campaigns, including “International Tree Planting Day” and “Earth Hour”, doing our best to promote a green and low-carbon lifestyle and advocate the concept of energy saving and environmental protection.

Case: Spreading *Hear the Ocean*, an episode of *The Heart of the Earth far and wide*

In the context of intensified climate changes and deteriorating ecological environment across the globe, marine ecosystem protection has become a major concern of governments and all sectors of the society. Under this background, in collaboration with the Design Innovation Institute Shanghai, Mingyang Smart Energy launched a sustainable audio-visual communication program *Hear the Ocean as a part of The Heart of the Earth* at the World Design Cities Conference 2024 (WDCC2024). This program is aimed to call on the public to pay attention to marine ecosystem protection, and publicize the importance of protecting the marine ecosystem by pooling the wisdom and creativity from the whole society.



Promote Energy Conservation and Emission Reduction

Energy conservation

We place significant emphasis on advancing energy efficiency and conservation, particularly in the areas of electricity, oil, and gas savings. Within our manufacturing operations, we implement various measures to achieve energy savings and emission reductions. These include using recycled well water for irrigation, reducing workshop electricity consumption, upgrading hot water supply systems, and deploying battery-powered forklifts. Currently, our Xilin Gol League, Xinyang, and Baotou bases, along with their factories, have been certified under the energy management system. During the reporting period, we actively promoted the adoption of renewable energy, utilizing a total of 12,499,782 kWh of solar photovoltaic power and 651,960 kWh of wind power.

Outside of our manufacturing operations, we focus on three areas—energy-efficient air conditioning, lighting systems, and water supply and drainage energy conservation—to create green office environments. We tap into the potential of energy supply to achieve optimal resource allocation and application. This includes using inverter air conditioners to reduce power consumption; selecting appropriate lighting methods and making efficient use of natural light with sound- and light-sensing automatic controls; employing control switches to minimize transformer power loss; and utilizing water-efficient valves to regulate water flow across the park, thus reducing waste. In 2024, the Company's total energy consumption was 31,271.36 tons of standard coal, with a total energy intensity of 0.01 tce/RMB 10,000 million revenue.

2024

Total energy consumption

31,271.36 tons of standard coal

Total energy intensity

0.01 tce/RMB 10,000 million revenue

Water resource utilization

As water resources are not a primary production input for the Company, our water usage is mainly for daily operations, with no significant water-related risk. Nevertheless, we actively promote the efficient use of water resources by implementing a series of advanced water management strategies to maximize water efficiency. In terms of facility upgrades, we have fully adopted water-saving sanitary fixtures and scientifically adjusted their water supply pressure, reducing water flow by more than 50% compared to previous levels. Additionally, we have strengthened the routine management of water facilities, conducting regular inspections to ensure all systems are in good condition. Any issues detected are promptly addressed by professional personnel to guarantee uninterrupted operation. In 2024, the Company's total water consumption amounted to 1,789,028.97 cubic meters.

Total water consumption

1,789,028.97 cubic meters

Pollutant emissions

The Company regularly commissions third parties to conduct pollutant monitoring and issue relevant reports. In 2024, the Company's environmental monitoring plan had no significant deficiencies.

Prevention and control of water pollution

We strictly comply with the *Water Pollution Prevention and Control Law of the People's Republic of China* and have developed and released an internal *Pollution Prevention and Control Management System* to further strengthen our efforts in water pollution prevention and control.

Prevention and control of industrial water pollution

- The use of processes and equipment that severely pollute the aquatic environment is strictly prohibited.
- Entities discharging industrial wastewater must take effective measures to collect and treat all generated wastewater to prevent environmental pollution. Enterprises emitting toxic or harmful water pollutants are required to implement comprehensive collection and treatment measures to prevent environmental pollution.
- Industrial wastewater discharged to centralized sewage treatment facilities must undergo pretreatment in accordance with national regulations and meet the processing requirements of the centralized facility before being discharged.
- All entities should adopt clean production processes that maximize raw material efficiency and minimize pollutant emissions, while strengthening management to reduce the generation of water pollutants.

Prevention and control of water pollution from ships

- Ships must be equipped with appropriate anti-pollution devices and equipment in accordance with national regulations and hold valid certificates and documents for preventing water environmental pollution.
- The discharge of oily wastewater and domestic sewage from ships must comply with the relevant standards for ship pollutant emissions.
- Residual oil and waste oil from ships must be recycled and are strictly prohibited from being discharged into water bodies. Similarly, dumping ship garbage into water is prohibited.

Protection of drinking water sources and other special water bodies

- The construction, renovation, or expansion of projects unrelated to water supply facilities and source protection is prohibited in the first- and second-grade protection zones of drinking water sources.
- The construction or expansion of projects that severely pollute water bodies is prohibited within the protection zones of drinking water sources. Renovations of existing projects must not increase pollutant discharge.



Sewage discharge and treatment

We prioritize sewage management, strictly adhering to the *Integrated Wastewater Discharge Standard*, the *Discharge Standard for Water Pollutants from Ships*, and other relevant laws, regulations, and standards in our operating regions. We employ targeted methods to address water pollution from different sources. For shipborne sewage, construction vessels are equipped with collection systems for domestic wastewater and oily wastewater, which are then handed over to qualified entities for off-site treatment. For domestic sewage generated by maintenance personnel during operations, collection tanks are installed in the restrooms of the booster station. The wastewater is collected onboard and transported to the onshore centralized control center for treatment and reuse.

Wastewater discharge

In accordance with national laws and regulations such as the *Integrated Wastewater Discharge Standard* and the *Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant*, we have developed and published a *Pollution Prevention and Control Management System* to systematically advance wastewater management. Currently, we have established a wastewater treatment facility system that monitors discharge in real time and conducts regular inspections and maintenance of wastewater treatment equipment to ensure its effectiveness. In 2024, we achieved compliant discharge of a total of 387,866.92 tons of wastewater.

Exhaust gas management

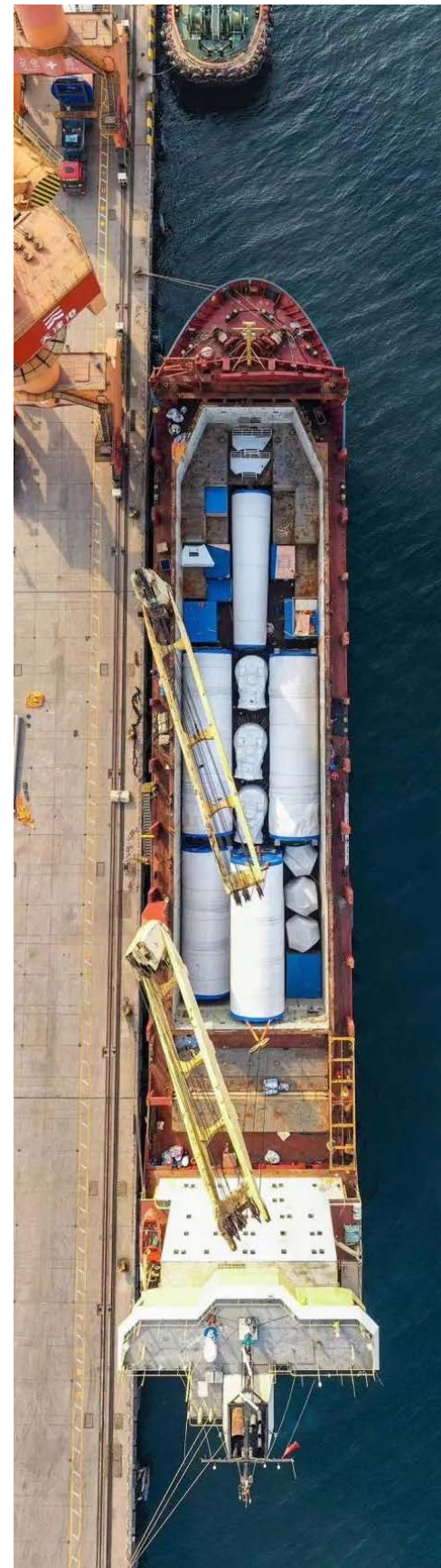
We utilize advanced exhaust gas treatment equipment to purify and control emissions, while continuously monitoring discharge levels in real time. This ensures compliance with relevant regulations and standards for exhaust gas emissions.

Management of volatile organic compounds (VOCs)

We are committed to upgrading existing environmental protection facilities at our factories to reduce VOCs emissions. For instance, the Xinyang factory has constructed a new paint touch-up booth equipped with VOCs treatment facilities in the equipment repair workshop to collect and purify VOCs generated during the touch-up process. Similarly, the Baotou factory has installed exhaust gas treatment facilities for its hazardous waste storage area to collect and purify VOCs emitted during the storage of hazardous materials.

Noise management

We place great emphasis on noise prevention and control during production. During the maintenance of construction vessels and equipment, we proactively post construction notices and complaint hotlines, welcoming feedback and supervision from nearby residents regarding noise issues. In high-noise pile-driving operations, we employ a soft-start method—beginning with low-impact strikes for the first pile and gradually increasing intensity—to reduce the impact of construction noise on the surrounding environment.



Waste disposal

Based on the ISO 14001 Environmental Management Systems, we have established a series of regulations, including a hazardous waste management system, a hazardous chemicals safety management system, and a hazardous waste disposal management policy. Effective waste management measures have been implemented to strictly control emissions of exhaust gases and various types of waste. During daily operations, we provide departments with designated containers or temporary storage areas for recyclable waste, non-recyclable waste, and hazardous waste, clearly labeled for proper identification. Waste is sorted internally within departments: non-hazardous waste, such as household waste and industrial solid waste, is placed in general waste collection areas, while hazardous waste is stored in designated hazardous waste zones. Household waste and industrial solid waste are transferred by each department to the Support Service Center for disposal, while hazardous waste is managed by the Procurement Management Department, which arranges qualified recycling companies through a bidding process. The Safety and Environmental Protection Office regularly coordinates with these qualified companies for proper handling. In 2024, we generated a total of 23,663.13 tons of general waste and 712.67 tons of hazardous waste.

2024

General waste generated

23,663.13 tons

Hazardous waste generated

712.67 tons

Pollutant emission performance

Indicators	Unit	2024
Wastewater discharge		
Total wastewater discharge	Tons	387,866.92
Wastewater discharge intensity	Tons/RMB 10,000 million revenue	0.14
Chemical oxygen demand (COD)	Tons	42.34
Biochemical oxygen demand after 5 days (BOD5)	Tons	5.82
Suspended solids	Tons	16.04
Ammonia nitrogen (NH3-N)	Tons	4.62
Total phosphorus (as P)	Tons	1.17
Exhaust gas emissions		
Total exhaust gas emission	10,000 m³	590.40
Exhaust gas emission intensity	m³/RMB 10,000 million revenue	2.17
Volatile organic compounds (VOC)	Tons	11.05
Nitrogen oxides (NOX)	Tons	1.07
Hazardous air pollutants (HAP)	Tons	4.02
Particulate matter (PM)	Tons	2.32
General waste discharge		
Total general waste generated	Tons	23,663.13
General waste generation intensity	Tons/RMB 10,000 million revenue	0.0087
Hazardous waste discharge		
Total hazardous waste generated	Tons	712.67
Hazardous waste generation intensity	Tons/RMB 10,000 million revenue	0.0003

Explore the Circular Economy

Wind turbine blade reutilization

The widespread use of composite material wind turbine blades has made their recycling and disposal after retirement a pressing issue, posing a major challenge to the wind power industry. Due to their complex composition and large size, retired blades are among the hardest waste materials to manage globally. Without a viable solution, it is estimated that by 2050, the world could accumulate up to 43 million tons of retired blades.

In this context, we have proactively developed recycling technologies for wind turbine blades, creating a 75.7-meter-long recyclable thermosetting resin blade. This is the world's first large-scale blade to use both recyclable epoxy pultruded panels and recyclable core materials, achieving over 95% material recyclability. In 2024, the "world's first large-scale eco-friendly wind turbine blade with recyclable pultruded panels" was recognized as an innovative example in the 2024 Green Sustainable ESG Case Top 100.

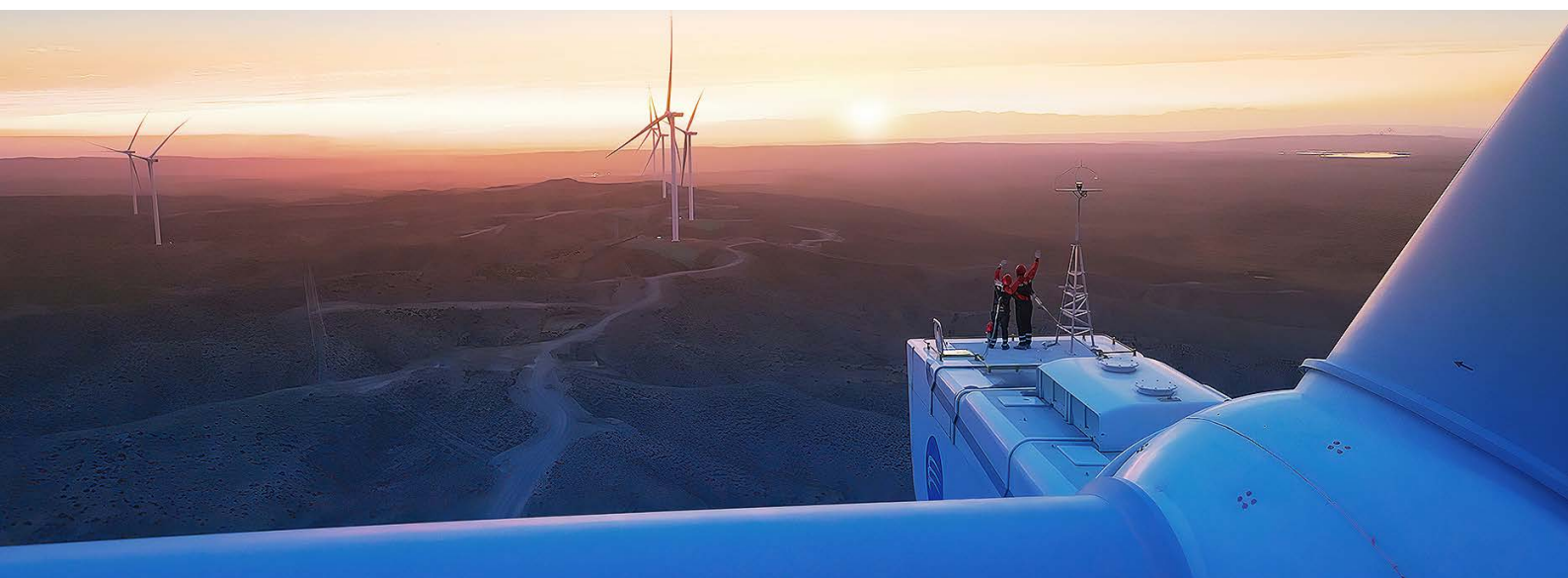


Reuse of waste production materials

We promote the reuse of waste production materials. Discarded wooden boards are repurposed to create support fixtures for pitch gear lubrication pumps, and old corrugated pipes are transformed into protective sleeves for electrical wires at the production site. Meanwhile, we continually explore ways to utilize waste production materials.

Reuse of packaging waste

We reuse packaging materials used for transportation from suppliers, thus creating secondary value and reducing direct waste. This year, we reused wooden packaging crates from suppliers, such as those for doubly-fed pitch systems, saving RMB 192,400 in costs for purchasing new packaging crates for wind farm shipments.



03

High-quality Products for Business Prosperity

Self-Driven
Innovation and
R&D

High-Quality
Product Control

Considerate
Customer Services

Responsible
Supply Chain

We adhere to the principles of innovation-driven development and independent R&D. By establishing a comprehensive innovation R&D system, quality management framework, and supplier management processes, we maintain full control over our products and services, earning market recognition and customer trust through high-quality offerings.

Key achievements in 2024

R&D investment RMB **1.104** billion, accounting for **4.06%** of total revenue

Obtained ISO 9001 quality management system certification, with a machine pass rate of **97.16%**

Customer complaint resolution rate reached **94%**, and the overall customer satisfaction score for engineering services was **90.75**

60 newly developed suppliers hold certifications for three management systems: quality, environmental, and occupational health and safety



Self-Driven Innovation and R&D

Innovation R&D system

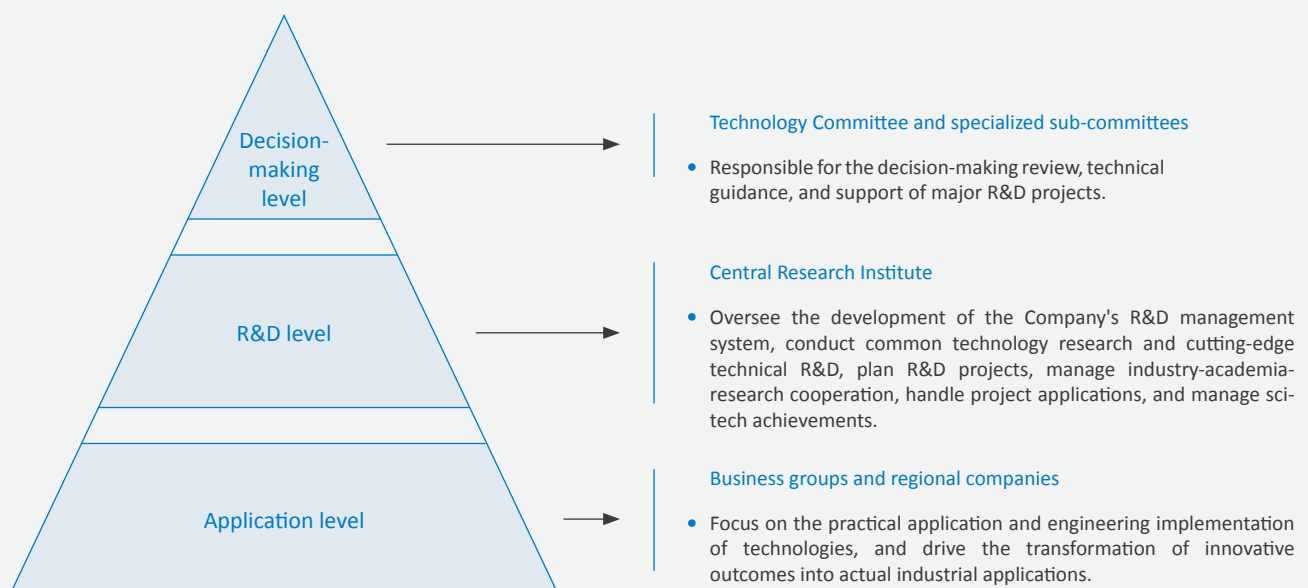
Innovation R&D management

The Company identifies "innovation-driven" as a topic of both impact materiality and financial materiality. In line with this, we follow the *Guidelines of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report*, which provides a framework for sustainability disclosure. This framework centers on governance, strategy, impact, risk and opportunity management, as well as key indicators and targets. We offer detailed disclosures on innovation-driven initiatives across these four elements.

Disclosure of four key elements of the Innovation-driven topic

Governance

The Company has established a three-tier R&D management structure comprising the Technology Committee and specialized sub-committees - Central Research Institute - various business groups and regional companies. This structure strengthens the system of technology innovation platforms, such as high-tech enterprise certifications and specialized, high-end and innovation-driven enterprise recognitions. A series of innovation management systems have been developed, including the *R&D Project Management Standards*, *Technical Expert Pool Management Measures*, *R&D Incentive Management Measures*, *Patent Management Measures*, *Paper Management Measures*, *Technical Innovation Management Details*, *Innovation Committee Operating Procedures*, *Technical Standards Management Measures*, *New Product Development Control Procedures*, and *Technical Change Control Procedures*. These measures provide a solid organizational and institutional foundation to ensure the smooth implementation of the Company's technical R&D activities.





Strategy

We view technological innovation as a critical driver for technical development and industrial upgrading, integrating it into our long-term strategic planning to ensure alignment with corporate objectives. On this foundation, we have developed detailed technological innovation plans, clearly defining goals and tasks for each phase, along with corresponding resource allocation and incentive mechanisms. This approach accelerates our transformation from a traditional energy equipment manufacturer to a comprehensive energy solutions provider, continuously strengthening and enhancing our industry leadership.

Innovation incentive mechanism

To enhance innovation and sustainable development capabilities, the Company has specifically developed the *R&D Incentive Management Measures and the Innovation Incentive Reward Methods*. These include awards for technological innovation, management innovation, and rational suggestions, recognizing employees who achieve excellence in various innovation fields. This aims to stimulate innovation enthusiasm and initiative among employees, encouraging them to make substantial contributions to corporate innovation. Additionally, we have established clear evaluation criteria and bonus allocation methods for each award, ensuring a fair and transparent selection process. By maximizing the effectiveness of our incentive mechanisms, we aim to boost the company's overall innovation capacity.

Impact, Risk, and Opportunity Management

Market competition risks and responses

The wind power industry faces intensifying competition, marked by fierce price wars and strong challenges from international giants, which threaten the Company's market share and profit margins. To effectively counter these risks, we prioritize technological innovation as our core driver. By leveraging technological advancements and product differentiation, we enhance product performance and quality, thus strengthening our market position.

Industry policy risks and responses

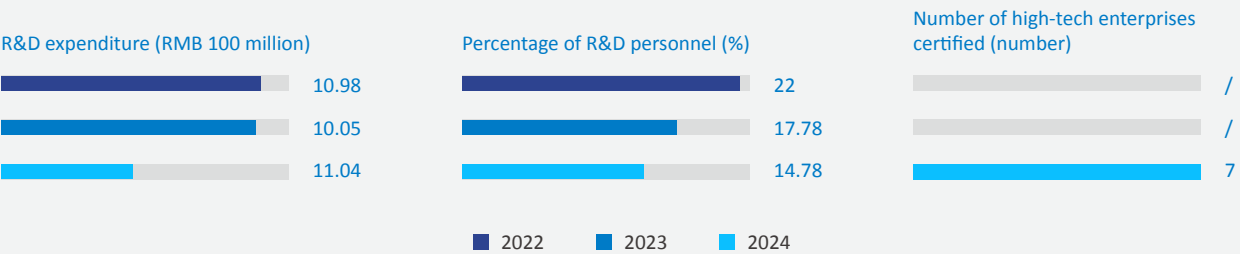
As a policy-driven industry, the wind power sector relies heavily on government support, with changes in subsidy policies, approval regulations, and other measures significantly impacting the Company's business development. To mitigate the adverse effects of policy changes, we closely monitor updates to subsidy and approval policies, proactively adjust our strategic layout, and plan projects in advance to minimize potential disruptions.

Technical risks and responses

The rapid advancement of wind power technology and shifting market demands introduce uncertainties in new technical R&D and application, posing technical risks to the Company. To effectively mitigate these risks, we continually increase our R&D investment, stay abreast of technological trends, and establish an efficient R&D system. By streamlining the R&D cycle, we reduce the uncertainties linked to new technology R&D and application.

Indicators and Targets

Innovation-driven management indicators



Innovation-driven management targetsProgress



R&D investment and deployment

We are committed to enhancing our technological innovation capabilities by reinforcing a dual strategy of financial investment and talent acquisition. For one thing, we have increased R&D funding, establishing a dedicated fund to support project development, ensuring strong financial backing for the smooth implementation and innovative breakthroughs of projects. For another, we actively recruit high-caliber talent and continually optimize our R&D team structure to boost innovation capacity.

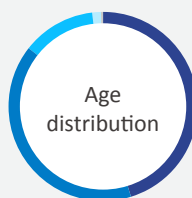
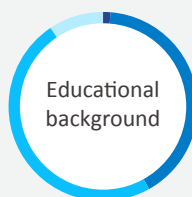
In 2024, we invested RMB 1.104 billion in R&D, representing 4.06% of our total revenue. We undertook 79 R&D projects, including 19 whole-machine R&D projects, 23 component R&D projects, 29 technical R&D projects, and 8 other projects.

Total number of R&D personnel

2,062

Percentage of R&D personnel
relative to total company workforce

14.78%



Clean technology R&D

We have consistently ramped up our investment in clean technology R&D, actively building a comprehensive "wind-solar-storage-hydrogen" industrial ecosystem. By leveraging smart energy application scenarios to drive demand, we are leading the push toward high-end clean energy technologies, industrial clustering, and scenario-based applications. This effort has yielded several significant technological breakthroughs in areas such as wind power, solar energy, energy storage, and hydrogen energy.

Wind power sector

We are committed to the development of high-power, medium-to-high wind speed, and low wind speed wind turbines for both onshore and offshore applications. We have innovatively developed large-scale wind turbine models such as the MySE11-233 and MySE18.X-20MW, and launched industry-leading floating wind turbines tailored for deep-sea offshore wind resource development. This has resulted in a comprehensive range of onshore and offshore wind power products adaptable to various global environments. During the reporting period, our independently developed "Mingyang Tiancheng", the world's largest single-unit floating wind power platform, was officially commissioned. For the first time globally, it features two 8.3 MW offshore wind turbines mounted on a single floating foundation, with a total installed capacity of 16.6 MW. Additionally, we completed testing and validation of the MySE6.25-193, the world's largest grid-forming doubly-fed wind turbine, marking a significant advancement in grid-forming technology.

Product name	Technical features	Application scenarios and value
MySE18.X-20MW offshore wind turbine	It employs flexible power design and active anti-typhoon technology capable of withstanding 17-level typhoons; integrates low-frequency grid connection technology; features "modularity, lightweight design, high efficiency, and high reliability"; underwent over 2,200 tests, including more than 800 hours of single-material fatigue testing.	It is suitable for medium-to-high wind speed and typhoon-prone areas in China, as well as high wind speed regions in Europe and other international markets. Meanwhile, it marks China's entry into the 20MW era of offshore wind power, driving cost parity for offshore wind energy and contributing to the achievement of "dual carbon" goals.
MySE11-233 onshore wind turbine	It incorporates advanced thermal management, highly efficient maintenance-free sand filtration technology, and a cyclone dust removal design for the nacelle. Also, it is equipped with the FlexiblePower platform for broad regional coverage and strong adaptability.	It is ideal for medium-to-high wind speed onshore areas, particularly in the "Three North" and large-scale wind farms in sandy, arid, and desertified areas. It enhances the efficiency and reliability of onshore wind power generation in complex environments.

Photovoltaic sector

We are deeply committed to the differentiated market of thin-film photovoltaic technology, continuously advancing the exploration and application of the "PV+" model across various scenarios. During the reporting period, "Guangdong Mingyang Thin Film Technology Co., Ltd." (hereinafter referred to as "Mingyang Thin Film Tech"), a subsidiary of the Company, achieved a 24% efficiency rate for its self-developed 100*100mm² perovskite module, with third-party verified efficiency reaching 23.4%, placing it at the industry's leading level. Additionally, significant breakthroughs were made in the development of perovskite/heterojunction tandem solar cell technology, achieving a tandem efficiency of 32.3%.

Case: Mingyang Thin Film Tech's solar blinds

Mingyang Thin Film Tech's self-developed "Solar Blinds" won the Bronze Award at the 2024 Zhongshan Industrial Design Competition, in the Torch High-Tech Industrial Development Zone's Bay Area Optical Valley Optoelectronic Design category. This innovative product seamlessly integrates solar panels with traditional blinds, providing shading and lighting functions while generating clean energy through solar power. It is an aesthetically pleasing, practical, and energy-saving solution suitable for various buildings, including office towers, schools, and residential homes.

Energy storage sector

We have developed core equipment such as energy storage power conversion systems (PCS), energy management systems (EMS), and battery management systems (BMS), offering "storage+" system solutions that cover various application scenarios on the power supply side, grid side, and user side.

Energy storage algorithms and scheduling

We developed optimization scheduling schemes for integrated energy systems, including wind, solar, and storage, across multiple time scales; devised and simulated a multi-objective optimization scheduling strategy for cooling, heating, and power in integrated energy systems; completed the development of a solar-storage integrated dispatch strategy for the Xinyang Park and integrated the EMS platform program code.

Energy storage hardware R&D

The 2500kW standalone energy storage Power Conversion System (PCS) successfully passed the GB34120-2023 national standard certification and achieved mass production, with 48 units shipped. The second-generation modular PCS model enhanced EMC performance by reducing common-mode voltage through an optimized algorithm, enabling the delivery of 53 units for a project in Israel. This marked the Company's first bulk shipment and field application in the Middle East.



2500kW standalone PCS



Second-generation modular PCS

Case: Shenzhen Quant-Cloud's wind turbine energy storage technology enables multi-scenario applications

Wind Turbine Yaw Energy Storage Backup Power System, developed by Shenzhen Quant-Cloud Energy Network Technology Co., Ltd. (hereinafter referred to as "Shenzhen Quant-Cloud"), was selected into Typical Cases on Green Technology Innovation for the Year 2024 by the Patent Protection Association of China. This technology introduces a control method and communication management system for wind turbine energy storage, enabling the energy storage control system to switch effectively between "normal operation mode" and "typhoon operation mode". This ensures the safe operation of the energy storage system under both normal conditions and extreme weather. Currently, this solution has been applied in onshore and offshore wind farms, as well as microgrids incorporating wind turbines, forming related technical products and services.

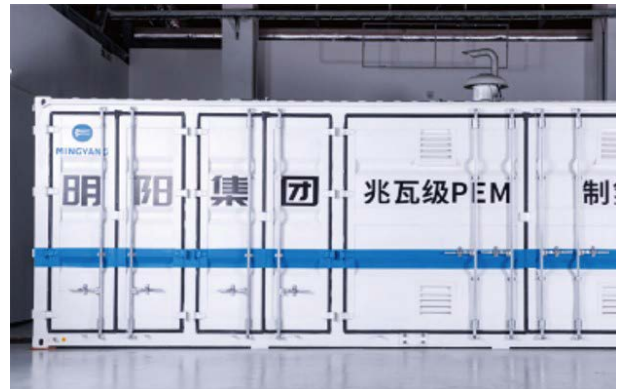


Hydrogen energy sector

The Company focuses on the research, development, and manufacturing of hydrogen production technologies, including pure water electrolysis, alkaline water electrolysis, and offshore hydrogen production, while also designing and developing hydrogen storage, transportation, and refueling equipment. We have developed a series of complete hydrogen production systems and standalone hydrogen production devices. During the reporting period, we successfully completed the development and short-stack testing of a 500 Nm³ proton-exchange membrane (PEM) electrolyzer stack, capable of meeting larger-scale hydrogen production needs. Additionally, we achieved the successful first ignition of "Jupiter I", the world's first 30MW-class pure hydrogen gas turbine, marking a milestone in hydrogen energy technology.

Case: First fully integrated PEM hydrogen production station launched in China

On March 8, the first fully functional, integrated PEM hydrogen production station was successfully launched at Mingyang Group's Tiancheng Laboratory. This station achieves key technological breakthroughs in full functionality, integration, and flexibility by innovatively combining hydrogen production by water electrolysis, gas purification, high-frequency power supply, EDI ultra-pure water, cooling and heat exchange, process air source, energy storage systems, and intelligent monitoring. It enables the production of high-purity hydrogen immediately upon connection to water and electricity, representing an ultra-high integration method for hydrogen production. The PEM hydrogen production station is equipped with Mingyang's second-generation MW-class PEM electrolyzer stack, which features a frameless compact design, achieving ultra-high core volume power density. It efficiently matches a wide range of power fluctuations from 5% to 130%, enabling millisecond-level rapid response.



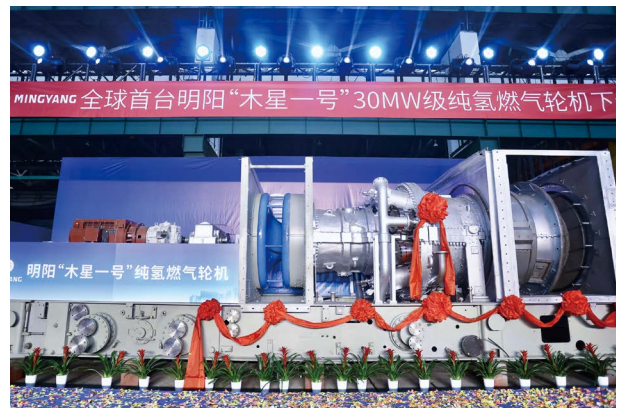
Integrated marine energy development sector

The Company focuses on innovations in deep-sea technology innovation, product innovation, and integrated scenario-based development models to explore new operational paradigms for marine energy. This effort aims to set industry-leading examples of advanced marine energy technologies, industrial clustering, and diversified application scenarios. In November 2023, the world's first integrated intelligent equipment combining a jacket foundation wind turbine with aquaculture cages, named Mingyu-1, successfully completed its first fish harvest. The second fish harvest was completed in October 2024. This project demonstrates the company's commitment to pioneering integrated marine energy solutions.



Integrated electricity and hydrogen development sector

The Company utilizes renewable energy for water electrolysis to produce hydrogen, while also manufacturing high-value products such as ammonia, methanol, and green premium fertilizers, achieving energy system transformation and value enhancement. Tailored solutions for electro-hydrogen-ammonia-methanol projects are developed by leveraging regional variations in wind, solar, and biomass resources, maximizing available conditions to support global net-zero goals. During the reporting period, we successfully conducted pilot tests of the gasifier and finalized the selection of an optimal furnace type, marking a breakthrough in core technology.



Industry-academia-research collaboration

We are actively building an ecosystem for industry-academia-research collaboration, establishing in-depth partnerships with renowned research institutions, universities, and enterprises both domestically and internationally. These include Tsinghua Shenzhen International Graduate School, Xi'an Jiaotong University, Sun Yat-sen University, Harbin Institute of Technology, Nanjing University of Aeronautics and Astronautics, Huairou Laboratory, Beijing Institute of Nanoenergy and Nanosystems, and BASF Performance Materials. Through joint laboratories and research centers, the Company achieves resource sharing and complementary strengths, significantly accelerating the entire process from technical R&D to industrial application. During the reporting period, we initiated 11 collaborative projects with leading domestic universities on technical routes related to components, machines, materials, and digitalization. We are also conducting four IEA research projects and participating in two DNV JIP projects.

Key R&D collaboration projects in 2024



Our collaboration with Central South University on the project Research and Development of Model Predictive IPC Control Technology for Wind Turbines aims to develop and apply model predictive IPC control technology. This project seeks to replace traditional pitch PID, torque gain compensation, and other nonlinear control methods, thus reducing the overall cost of wind turbine systems.



Our collaboration with Technische Universität Kaiserslautern on the project Research and Application of Main Bearing Dynamics Technology for Wind Turbines aims to develop a flexible dynamic model for double-row tapered main bearings. The project analyzes the impact of varying clearances and load conditions on the performance of the main bearing.



We are currently conducting four research projects under the International Energy Agency Wind Technology Collaboration Programme (IEA Wind TCP). These projects focus on floating foundation array design, LIDAR, wind farm flow control, and OC7 (covering topics such as hydrodynamic viscous loads, floating turbine structures, and wind farm aerodynamics).



Mingyang engages in technical exchange with the Netherlands Organization for Applied Scientific Research (TNO)



Mingyang holds technical exchange with Vattenfall, Sweden's leading power company



Digital transformation

The Digital Process Center of the Company is fully committed to implementing the Group's Digital Mingyang strategy, achieving significant progress across multiple dimensions, including office management and production manufacturing.

Digitalization of office management

We are fully advancing the automation, platformization, and digital transformation of our business systems to reduce management costs and enhance office efficiency. During the reporting period, we completed the integration of our office automation system with WeChat enterprise accounts, optimized the SAP/ERP business system, and developed the Digital and Intelligent Brain platform.

Case: Significant progress in Mingyang's Digital and Intelligent Brain management reporting platform

To address challenges such as the time-consuming manual collection of operational data, inconsistent statistical standards, and a disorganized indicator system, we have been actively advancing the development of our Digital and Intelligent Brain management reporting platform. This platform leverages advanced BI tools to automatically extract raw data from various information systems for operational and business analysis. Through data modeling, cleaning, and rapid automated generation of diverse analytical reports, it provides real-time visibility into the Company's production and operational status. By enabling visualized management of operations, the platform supports the decision-making layer with timely insights into business performance, early issue detection, and swift problem resolution, thus facilitating faster and more informed decisions.



Digitalization of production manufacturing

We are advancing the construction of digital factories with the MES system at our core, enabling full digital control over the entire production process for both main units and blades. This ensures every step of production is informatized and transparent. During the reporting period, we implemented a domestic intelligent manufacturing digital dashboard to monitor key indicators such as kit completeness rate, production output rate, shipment rate, and hoisting rate through an end-to-end balanced process. Meanwhile, we identify operational bottlenecks in real time and optimize resource allocation to minimize inefficiencies. Moreover, an operational planning report system was established to integrate manufacturing data flows, enabling dynamic tracking of indicators and generating intelligent production scheduling recommendations. By automating manual tasks, we significantly enhanced operational decision-making efficiency and resource utilization, forming a closed-loop "standardization-based, data-empowered, and intelligence-driven" digital operation and maintenance framework.

Enhancing production efficiency through digital factory construction



Yangjiang Factory: The MES system has been successfully deployed, enabling industrial 5G Wi-Fi coverage across the factory and achieving information-driven management of the actual manufacturing process. Additionally, a robotic stretching device for hub pitch bearings has been introduced to automate critical process steps.

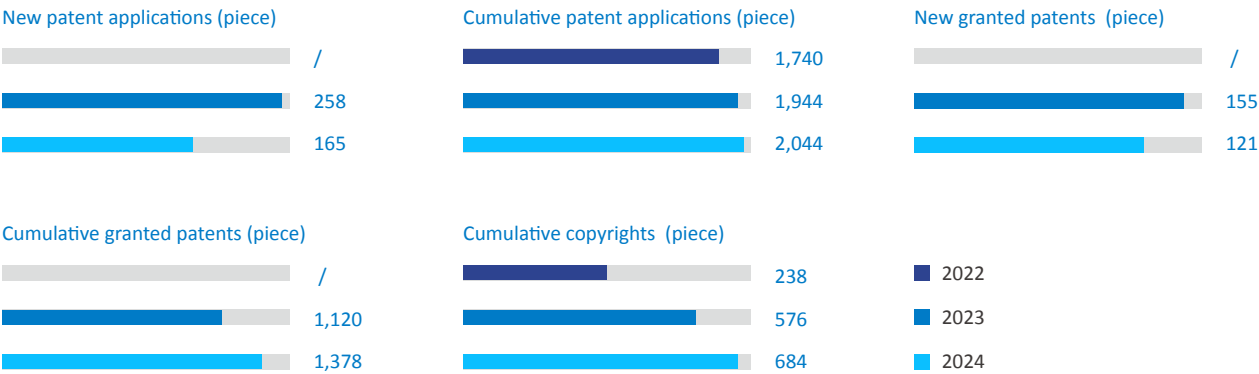


Baotou Factory: The factory has achieved seamless connectivity between intelligent devices, personnel, and the MES system, with full industrial 5G Wi-Fi coverage. Automated robotic workstations have been installed at the drivetrain and hub stations, enabling unmanned operations for tasks such as tension sleeve installation and pitch bearing bolt tightening. This enhances production efficiency while ensuring consistent quality. The workshop features two pulsating flexible production lines—for assembly and hubs—allowing for mixed-model production and improving workflow efficiency. Additionally, an automated stereoscopic warehouse supports automated storage, retrieval, and inventory management of components, achieving an output efficiency of 2 units every 8 hours.

Intellectual property protection

The Company has established a Project Application and Scientific Achievement Management Department, which is fully responsible for intellectual property (IP) management, including patent applications, FTO analyses, infringement monitoring, evaluation and maintenance, and fostering IP awareness among researchers. We have also implemented systematic management policies such as the *Patent Management Measures*, *R&D Project Management Standards*, *Paper Management Regulations*, *Technical Innovation Management Guidelines*, and *Special Reward Management Rules* to clarify workflows and ownership rights. Additionally, regular IP protection training and awareness campaigns are conducted to enhance employees' understanding of intellectual property and safeguard the Company's innovative achievements.

Intellectual property statistics



Data security and privacy protection

Management of data security and privacy protection

The Company has designated the Digital Process Center as the governing body for information security matters. Under this center, the Infrastructure and Operations Management Department is responsible for system network operations, information security monitoring, and risk assessments. Within the department, dedicated Information Security Specialists handle security incident response, vulnerability detection, and employee training on security practices.

We have established a series of policies, including the *Information Security Management Measures*, *Corporate Confidentiality Regulations*, and *Issue and Event Management System*, which provide specific guidelines for employees and third-party personnel on the use of company information resources, document confidentiality, and emergency incident handling.

In the fourth quarter of 2024, we officially launched the ISO 27001 Information Security Management System project, using the ISO 27001 certification as a key initiative to further standardize our information security management system. During the reporting period, we invested a total of RMB 7.75 million in information security, with no incidents of violations or litigation related to information security or privacy protection.

During the reporting period

The Company's total investment in information security reached

RMB **775** million

0

Violations or legal incidents related to information security or privacy protection

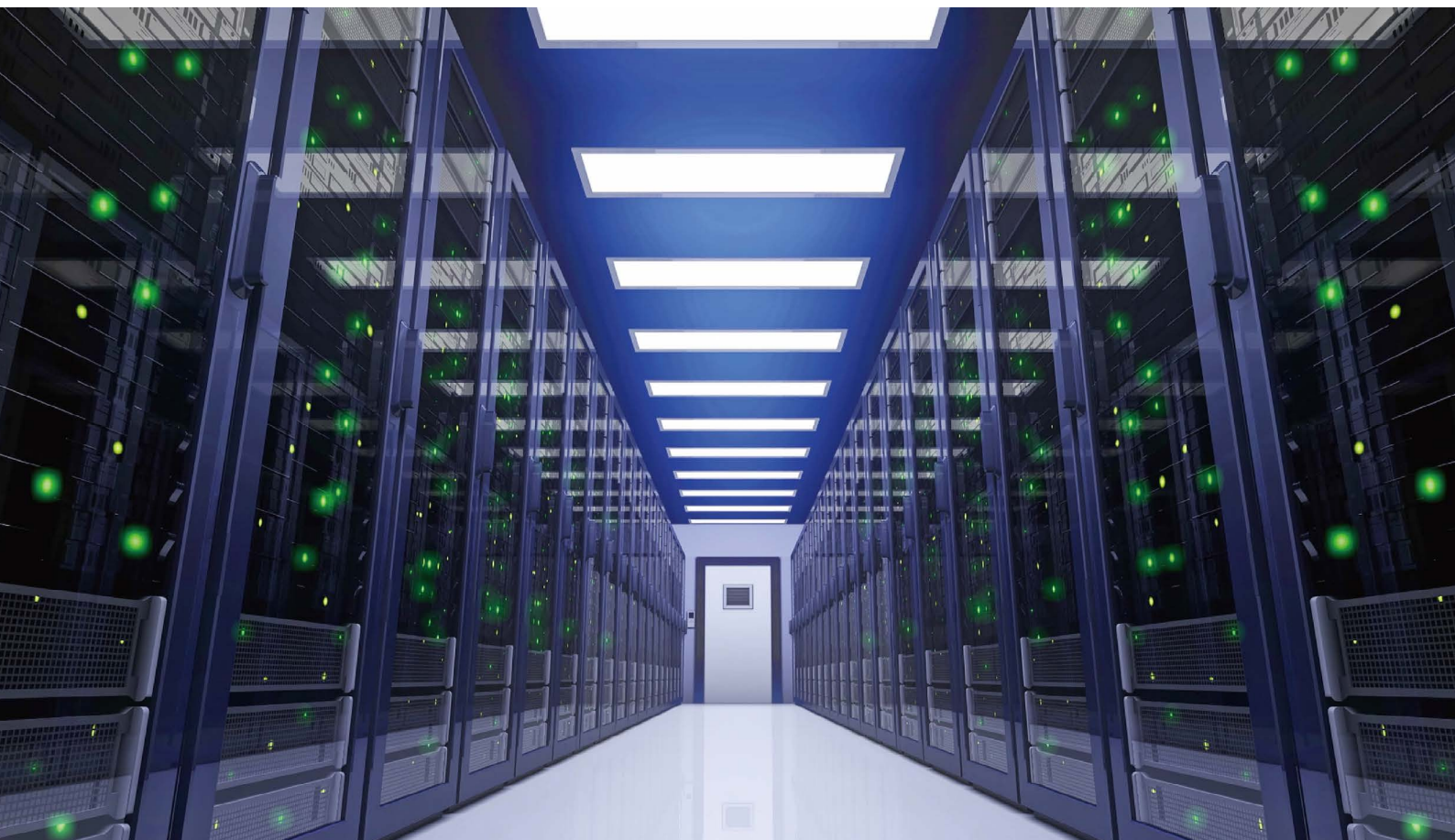
Data security and privacy protection review

We conduct monthly assessments of our overall network risk through vulnerability scans, system operation monitoring, and analysis of internal and external network traffic. Additionally, we undergo an annual external audit. In 2024, we proactively engaged multiple third-party security agencies to evaluate our current network architecture and data security governance. Based on the identified risks, we have systematically implemented targeted remediation measures in accordance with professional recommendations from third parties.

Data security and privacy protection training

We enhance information security and personal privacy protection awareness among all employees through live streams, website videos, mini-program quizzes, and timely reminders on trending security incidents. During the reporting period, we conducted four information security training sessions, with approximately 400 employees participating. The training covered topics such as the Company's information security management system and case studies of security incidents.

Indicator	Unit	2022	2023	2024
Major cybersecurity incidents	Incidents	0	0	0
Information security training sessions	Sessions	0	2	4
Participants in information security training	Participants	0	200	400
Information security complaints	Complaints	0	0	0



High-Quality Product Control

Disclosure of four key elements of the Product and Service Safety and Quality topic

Governance

- We have established a Quality Management Committee responsible for the planning, supervision, and implementation of the quality service management system.
- We have set up a Quality Management Department to oversee product design quality, manufacturing quality, and operational quality.
- We have developed regulations such as the Equipment Safety Management System and Special Equipment Safety Management System.

Strategy

- We have established a quality policy centered on the principle of "getting it right the first time", delivering highly reliable products and customer-centric services that consistently create value for the energy industry and society.

Impact, risk, and opportunity management

- We implement strict quality monitoring throughout the entire process of procurement, including the applicability of technical standards, ordering, warehousing, storage, reinspection, and distribution, effectively controlling quality risks.
- We have established emergency mechanisms such as the 24-Hour Response Mechanism for Major Quality Risks and Hazards and the Emergency Response Mechanism for Major Quality Incidents in Wind Farms to prevent and address sudden product-related emergencies.

Indicators and targets

Pass rate for complete machine inspections

97.16%

0

Major safety and quality incidents related to products and services

0

Product recall events





Product quality management

We regard quality and service as the core elements of our survival and development, establishing a quality policy centered on the principle of "getting it right the first time". A comprehensive quality management system has been built, covering organizational structure, quality control, regular audits, and continuous improvement, to ensure the delivery of high-quality products to customers. In 2024, we successfully obtained the ISO 9001 quality system certification issued by a third-party agency, achieving a complete machine inspection pass rate of 97.16%.



Mingyang's ISO 9001:2015 Quality Management System Certificate

Product safety management

In compliance with product safety standards such as the Product Quality Law of the People's Republic of China and the GBT 19000-2016 Quality Management Systems, we have established the Equipment Safety Management System and the Special Equipment Safety Management System. We have also enhanced safety facilities, testing, and monitoring equipment to evaluate the health and safety impacts of wind turbine products at every stage—from procurement, acceptance, and usage to maintenance, repair, replacement, and decommissioning. Additionally, we scientifically formulate quarterly intermediate repair plans and annual major repair plans, implementing a "three-level maintenance system" comprising routine maintenance, primary maintenance, and secondary maintenance. This ensures comprehensive safety performance control throughout the entire process, from raw material delivery to wind farm installation and operation. In 2024, we reported no incidents of violations related to health and safety regulations.

Product emergency management

In accordance with product safety standards such as ISO 14000, we have established regulations including the 24-Hour Response Mechanism for Major Quality Risks and Hazards and the Emergency Response Mechanism for Major Quality Incidents in Wind Farms. These regulations clearly define the responsible departments and corresponding tasks, forming a robust emergency response mechanism for product-related incidents. In 2024, we reported no major safety or quality-related incidents related to products and services.

Considerate Customer Services

Disclosure of four key elements of the Customer Satisfaction topic

Governance

- Formulate regulations such as the Management Measures for Customer Complaints and Satisfaction Surveys, etc.

Strategy

- Provide customers with thoughtful product consultations, technical support, and customized solutions to solve their on-site needs promptly. Moreover, visits are paid regularly to customers to collect their opinions and suggestions, aiming to constantly enhance customer satisfaction with our services.

Influence, risk and opportunity management

- Collect customer satisfaction feedback with 43 sub-items in key projects from seven dimensions to analyze the trends of customer satisfaction over the past three years. Improvements will be made in three dimensions with lower satisfaction scores, so as to raise customer satisfaction.

Indicator and target

Comprehensive customer satisfaction on the engineering side

90.75 scores

Satisfaction with power generation performance of the generating units

93.08 scores

Satisfaction with supplier services

91.95 scores

Satisfaction with on-site operation and maintenance services

91.59 scores

Satisfaction with response to customer complaints

91.33 scores

Satisfaction with product quality

91.03 scores

Satisfaction with spare parts assurance

89.29 scores

Satisfaction with technical support

89.10 scores



| Responsible marketing

We organize objective, authentic and standardized marketing activities by developing a marketing regulation system, standardizing marketing language, and strengthening employee education and training, protecting the rights and interests of customers. In 2024, no violations of marketing communication occurred.

Establish a marketing regulation system

- Develop approval processes, business process flowchart and formulate management systems to standardize and refine the marketing activities.
- Update and improve marketing regulations regularly to cater to market changes and marketing strategies.

Provide transparent and accurate data

- Promise that all data used in the marketing activities are from reliable sources and have been proved authentic after a strict review.
- Disclose key corporate information objectively, such as performance reports and market research results by abiding by the accounting standards and industry norms.

Standardize marketing language

- Do not use exaggerated, false or misleading promotional language in advertising copywriting and promotional materials; avoid absolute, vague or ambiguous expressions.
- Provide necessary explanations and descriptions of professional or industry-specific terms given to ensure a clear understanding of customers.

Organize trainings on marketing personnel

- Provide marketing personnel with regular trainings and education on business laws and regulations, industry norms, marketing skills, product applications, market analysis, project management, etc., so as to improve their professional qualities and compliance awareness.

Encourage marketing personnel to provide customers with reliable products and quality services through carrying out marketing activities with integrity and professionalism.

Product knowledge description

- Provide *Installation Manual* and *On-site Commissioning Manual* for all projects. Regulations related to technical descriptions and training are included into the project contracts to ensure customers access to detailed product consultations, technical support, and installation guidance, etc.



Smooth delivery

An execution system dominated by operation plan is designed to further manage and monitor the project execution. Based on a reasonable scheduling, we coordinate in resources allocation and smooth the turnover of operation chain to ensure the on-schedule delivery of orders, thus improving the customer experience.

Prepare operation plans

The criteria for judging the accuracy of demands are optimized. Projects that have not won the bid or signed a contract shall not be included in the production scheduling plan. Situations shall be strictly controlled, such as temporary order additions and cancellations to reduce the change rate of project demands. Moreover, we design base production capacity in view of the evaluation results of the supply-side structure and demand matching degree. Measures are taken to balance the production and sales by considering the optimal logistics transportation distance. These endeavors are aimed at formulating an executable operation plan.



Strengthen execution control

A control mechanism is established to show daily, weekly and monthly progress from dimensional indicators of profitability, development and quality.

Daily

Follow up on key customers, key regions, and the implementation of key projects; promptly identify any abnormal deviations during the implementation.

Weekly

Organize weekly meetings by business module to share the progress of front-end projects and the execution process of back-end deliveries; warn about potential risks and propose solutions. ◦

Monthly

Based on analysis of the reasons for indicator deviation, formulate a work plan for the next month, and communicate among different departments to complete indicators and tasks.

Organize rational scheduling

Under insufficient operational capacity for project delivery, immediate integration of front-end demand, back-end procurement supply chains, site materials, tooling readiness, construction progress, and equipment reception. Based on such information, the “scheduling order” will be issued to coordinate all links to ensure timely delivery.

Improve after-sales services

Satisfaction survey and improvement

Guided by the *Management Measures for Customer Complaints and Satisfaction Surveys*, the Engineering Operation and Maintenance Department of the Company surveys satisfaction of customers on the engineering side. Specifically, in view of evaluation and trends in seven dimensions (such as unit power generation performance, supplier service, on-site operation and maintenance service, customer complaint response, product quality, spare parts assurance, and technical support), it adopts targeted measures to make improvements in technical support, spare parts assurance, and product quality, expecting to boost customer satisfaction.



Technical support

Enhance the technical reserves to perfect the technical support system, so as to shorten response time and solve problems promptly;



Spare parts assurance

Adopt a series of measures to improve the material support system, including optimizing and streamlining the procurement process; establishing safety stock and consignment inventory mechanisms; completing the intersectional influence and support model of the three-level warehouse system featuring “headquarters - centers - projects”.



Product quality

We strengthen the supervision of suppliers' product quality in design, manufacturing and engineering processes. Meanwhile, we collaborate with the Quality Management Department to promptly respond and formulate effective preventive control measures, in order to simultaneously prevent and control issues from the design source and during the process supervision. These efforts are aimed at producing reliable and high-quality products.

Operation and maintenance services empowered by digital technologies

Operation and maintenance services empowered by digital technologies

Focusing on the standardization of the production base network, desktop standardization, and the integration of virtualized resources, we have constructed a digital operation and maintenance framework consisting of the DataSoul Intelligent Operation and Maintenance Platform, the DeepMatrix Space (DMS) Digital Solution Platform, the Deep Fusion X AI-integrated Energy Management Platform for Deep-sea Areas, the MySE-OS Green Energy Cloud Platform, the Smart Construction Site Platform, and the Mingyang Wind Power Knowledge Graph Application System (the “Mingzhi” System). These facilities are expected to provide customers with high-quality engineering operation and maintenance services.



DataSoul Intelligent Operation and Maintenance Platform

This platform builds a smart operation and maintenance 2.0 model by applying technical means such as integrated monitoring, efficiency evaluation and diagnosis, full-situation auxiliary decision-making, and intelligent operation and maintenance scheduling on the station side. The model is characterized by over 3,000 hours of “fault - free” operation and “unattended” status. With these functions, it advances the digital, intelligent and visual management of wind fields.



DeepMatrix Space (DMS) Digital Solution Platform

National precise downscaled wind data is available in this platform, and contributes to reasonable and efficient site selection for projects. Meanwhile, it can automatically complete project plans such as machine layout schemes, road designs, and collector line designs, and offer rapid investment decision making.

Deep Fusion X AI-integrated Energy Management Platform for Deep-sea Areas

This platform is the world's first AI management platform - "Marine Smart Brain", offers new solutions for intelligent transmission, holographic perception, and coordinated control of integrated energy. Moreover, it is adaptable to multi-energy application scenarios such as wind power, hydrogen production, marine ranches, photovoltaics, and energy storage. It paves the way for integrated management and coordinated planning of integrated energy. Now, it has been recognized as the "Best Digital Service Product for Wind Power".



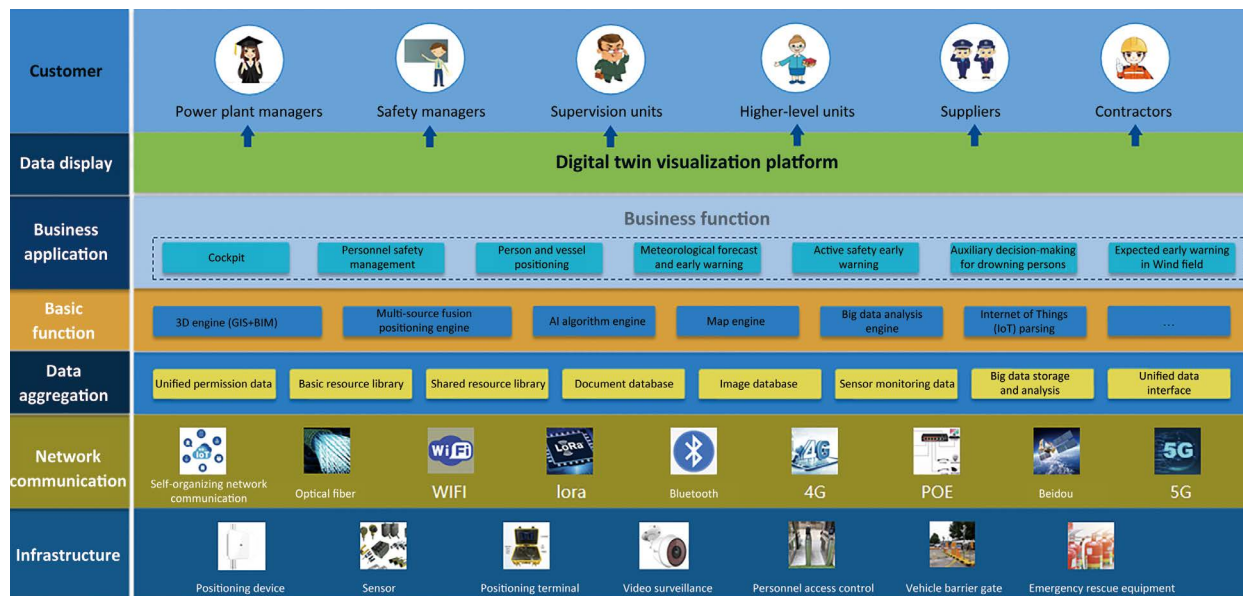
MySE-OS Green Energy Cloud Platform

With the focus on digitalization of smart energy, MySE-OS Green Energy Cloud Platform (hereinafter referred to as the Green Energy Cloud Platform) constructs the architecture composed of edge layer, platform layer and application layer, and creates an intelligent energy and carbon management and control platform. It also provides one-stop smart energy solutions to accelerate the green transformation of a new power system dominated by new energy.



Smart Construction Site Platform

This platform boasts of powerful and comprehensive functions. It is mainly used for the real-name management of laborers, real-time monitoring of operating parameters of equipment such as tower cranes and elevators, as well as multiple environmental and safety indicators. Meanwhile, it facilitates to create a safe and healthy construction environment. Through this platform, big data is used to compare the actual construction progress with the planned one, and the construction procedures are monitored to ensure quality. Furthermore, multiple areas are equipped with video surveillance that assists in remote analysis and early warning, promoting an intelligent and refined management of construction sites thereby.



Mingzhi system

The Mingzhi system integrates knowledge graphs with large language models to build a large-scale knowledge retrieval and application platform for wind power. The platform provides knowledge query, intelligent Q&A, operation and maintenance solutions, and other functions. This system is suitable for various business scenarios in the new energy field, with advantages such as easy migration, low computing power cost, and a rich and user-friendly range of terminals. It has won the award of excellence in the Intel AI Innovation Application Competition.



Customer privacy protection

According to the corporate requirements, all new employees and suppliers should sign confidentiality agreements. We collect, store, process, transmit and share personal information by strictly complying with the requirements of privacy and information security laws and regulations. We completely prevent illegal acts of disclosing customer information. Moreover, we set account permission restrictions for the systems storing customer information, record and audit the creation, transfer, and deletion of authorized accounts. All the data is stored in the data center computer room uniformly and protected by the computer room management system and infrastructure. During the reporting period, no violation or lawsuits such as customer privacy leakage occurred.

Customer complaint handling

In accordance with the Management Measures for Customer Complaints and Satisfaction Surveys, we have established a process in which multiple departments such as Marketing Center, and the Engineering Operation and Maintenance Department cooperate in customer complaints handling. This is to respond to customers' letters with a complete after-sales service process and then optimize customer service based on their actual needs. In 2024, we received a total of 338 customer letters, and 94% of customer complaints were resolved.

In addition, during the peak periods of customer letters in August, November, and December, multiple departments were organized to analyze the causes of these complaints. Then, based on analysis, we formulated targeted solutions, and relied on corporate resources to handle complaints efficiently. At the same time, we replied to customer letters promptly to maintain good customer relationships, and avoid the repeated complaints and problem escalation.

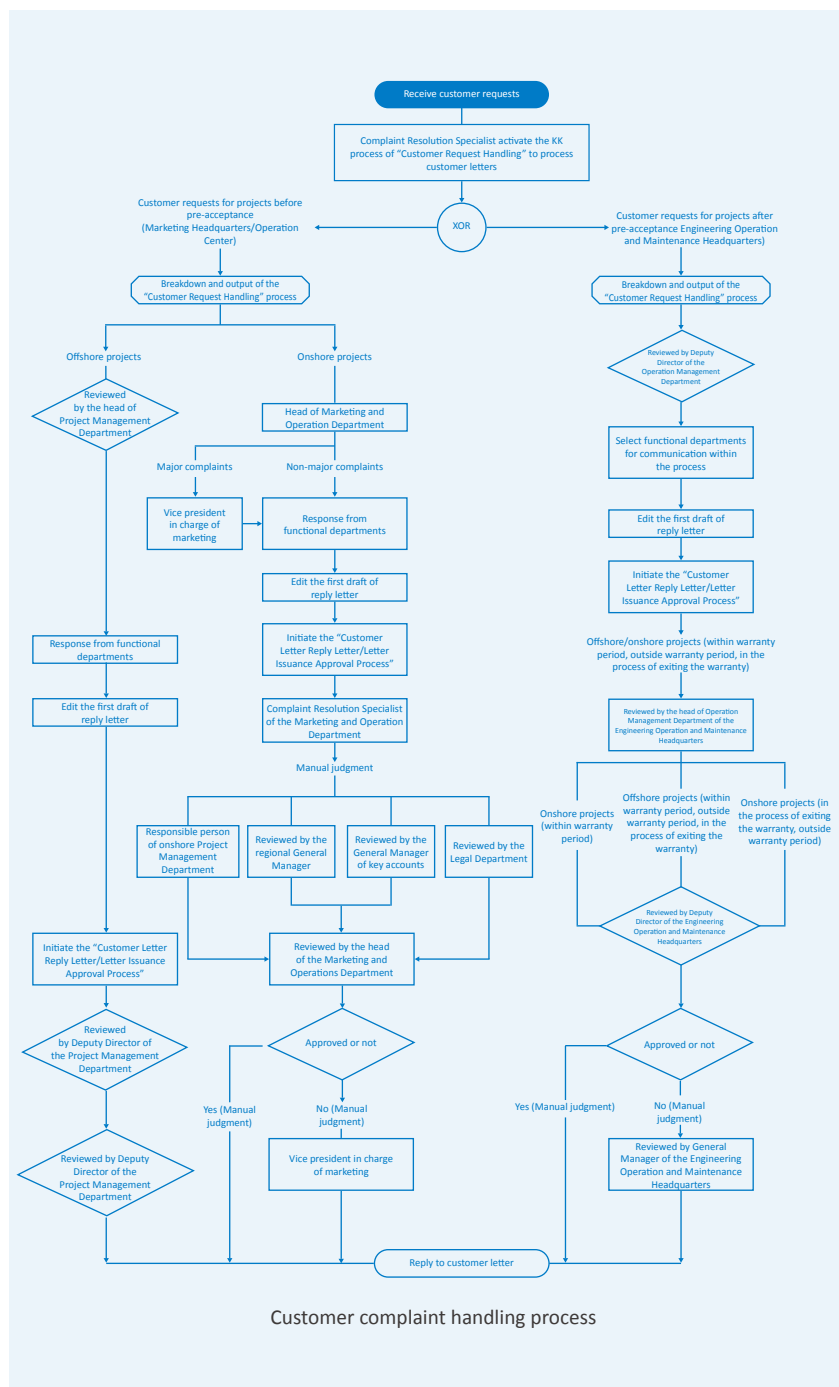
In 2024

Customer letters received

338

Customer complaints resolution rate

94%



Responsible Supply Chain

Disclosure of four key elements of the Supply Safety topic

Governance

- Establish a Bidding and Procurement Committee, under which Bidding Evaluation Committee, Bidding Determination Committee, and Bidding Management Center are set up.
- Establish a Supplier Management Working Group, which is composed of Bidding and Procurement Business Demand Department (contract execution department), the Bidding Management Center, the Discipline Inspection and Supervision Department, and the Legal Risk Control Center.
- Formulate relevant regulations, including *Guidelines for Bidding Management*, *Management Measures for Centralized Procurement and Bidding*, *Guidelines for Purchase Order Management*, *Guidelines for Production Material Procurement and Bidding*, *Supply Chain Control Procedures*, *Supplier Code of Conduct for Sustainable Development*, *Management Measures for Supplier Performance Evaluation*, and *Supplier Management Measures (Non-Production Materials)*, etc.

Management of impacts, risks and opportunities

- Cope with the production capacity risks of suppliers as per Supply Chain Control Procedures.
- Evaluate and review the risks of purchase orders in accordance with the Guidelines for Purchase Order Management.
- Cooperate with at least two suppliers for the same material to avoid the sole-sourcing risk.
- Work with relevant departments to score suppliers in terms of their products, quality, services, support performance, etc.; classify suppliers into four grades: A, B, C, and D. Select outstanding and qualified suppliers of the year, and eliminate those unqualified to avoid potential risks in supply chain in the next year.

Strategy

- Upholding the principles of fairness, openness, and impartiality in the bidding process, we treat all suppliers equally, regardless of their scale, nature of business, or origin. Suppliers are required to sign the *Supplier Integrity Commitment and the Corporate Social Responsibility Statement and Commitment*. In addition, they should possess certification qualifications such as ISO9001 Quality Management System, ISO14001 Environmental Management System, and OHSAS 18001 Occupational Health and Safety Management System, etc.

Indicators and targets

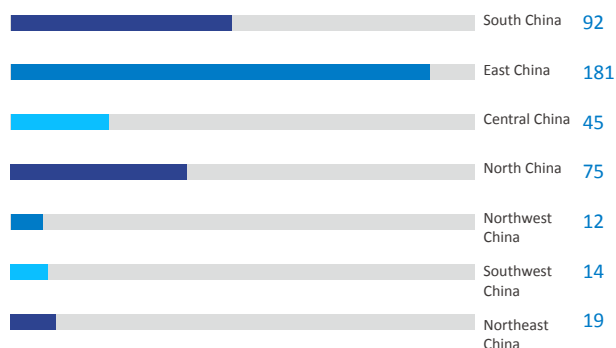
Supplier Evaluation Indicators (Engineering)										
Internal management (5%)	»»	Quality management (35%)	»»	Schedule management (25%)	»»	Cost management (5%)	»»	Safety and civilized construction (10%)	»»	Communication and coordination (20%)
Supplier Evaluation Indicators (Service-Operation and Maintenance)										
		Organizational management (15%)	»»	Service level and quality (50%)	»»	Work attitude (15%)	»»	Service support (20%)		
Supplier Evaluation Indicators (Service-Software System Development or Implementation)										
Organizational management (5%)	»»	Service and quality (20%)	»»	Schedule management (20%)	»»	Delivery (40%)	»»	Work attitude (5%)	»»	Service support (10%)
Supplier Evaluation Indicators (Service-General)										
		Service response (20%)	»»	Service quality (40%)	»»	Service competence (20%)	»»	Service support (20%)		
Supplier Evaluation Indicators (Goods-General)										
		Delivery (20%)	»»	Quality (35%)	»»	Service (25%)	»»	Support (20%)		

Supply chain management

We have formulated systems for centralized procurement bidding management and supplier management at the strategic level. These systems clearly define the processes for supplier development, access, daily management, and exit. We strictly control supplier access, strengthen supplier evaluation, manage suppliers by grades, and decide the suspension, downgrading, and termination of cooperation to urge suppliers to make rectifications and improvements.

Furthermore, we cope with production capacity risks of suppliers in accordance with the *Supply Chain Control Procedures*. Risks of purchase orders are evaluated and reviewed as per the *Guidelines for Purchase Order Management*. Moreover, we adopt multiple measures to prevent supply chain risks, avoiding the sole-sourcing suppliers for component supply.

Suppliers by region (number)



Supplier development

The *Supply Chain Development Plan* is prepared to investigate the basic conditions of suppliers to be developed.

Supplier access

In accordance with the *Working Guidelines for Supplier Access*, we strictly control supplier access through three methods: on-site evaluation, product testing, and on-the-spot inspection. The Quality Control Department and Technology Department are organized to review documents and on-site conditions of the prospective suppliers. The Procurement Department regularly updates the "List of Approved Suppliers"

Supplier management

We evaluate the annual and monthly performance of suppliers, and review their annual work pursuant to the *Management Measures for Supplier Performance Evaluation*. This is to comprehensively assess suppliers' product quality, delivery capabilities, business proficiency, technical services, and other aspects.

Supplier exit

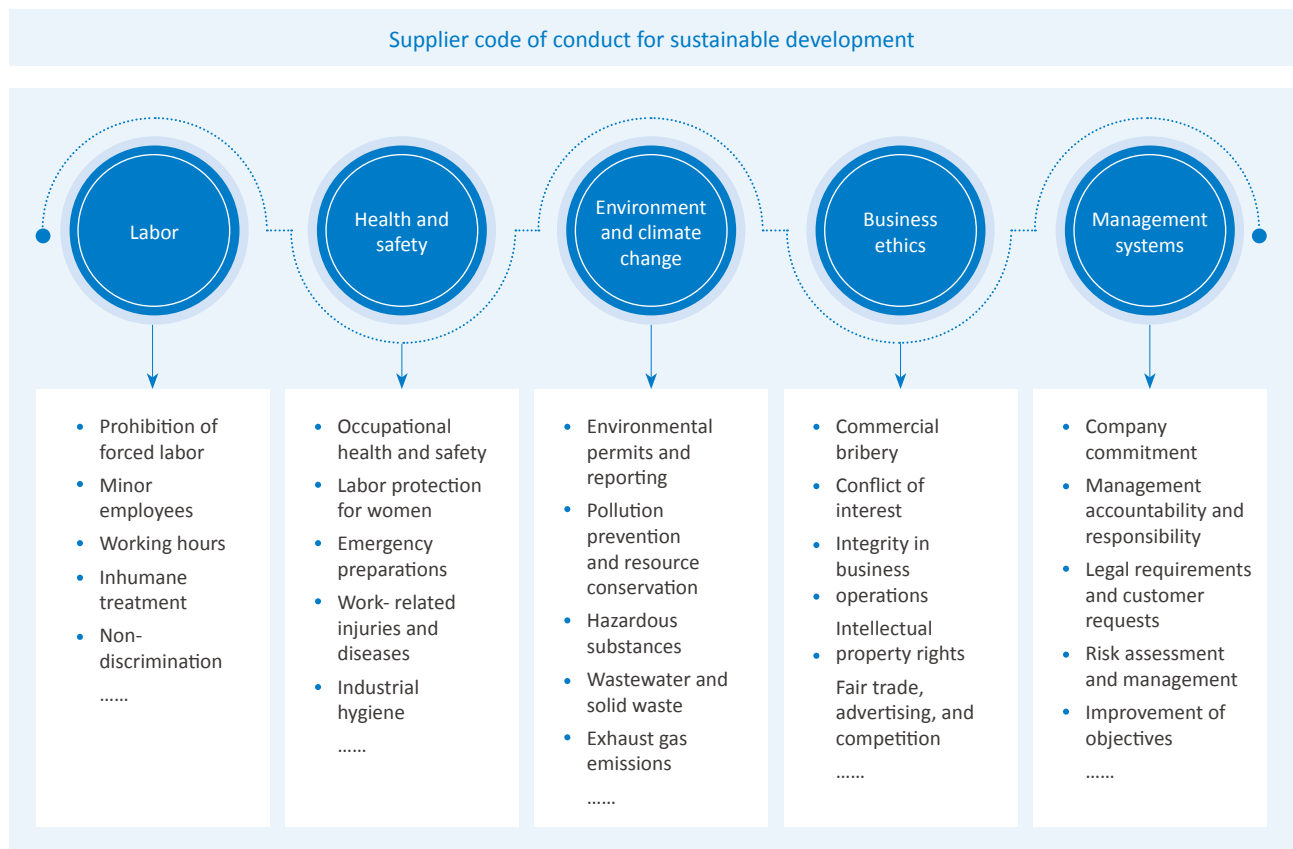
In light of the results of supplier performance evaluation and annual reviews, we absorb opinions of departments such as procurement, quality control, technology, and engineering to remove non-compliant and untrustworthy suppliers. This helps improve the level of supply chain as a whole.



Sustainable supply chain

Supplier sustainable development management

We have established and implemented the general principles and five detailed rules of the Supplier Code of Conduct for Sustainable Development. We highlight suppliers' performance in labor, health and safety, environment and climate change, business ethics, and management systems. Meanwhile, suppliers are required to track and record energy consumption and greenhouse gas emissions in production, and explore high-benefit methods to pursue sustainable development across the whole supply chain. Additionally, they are encouraged to assume more social responsibilities and abide by business ethics.



Responsible procurement

Guided by the concept of responsible procurement, we consider social responsibility as a factor for supplier qualification. Specifically, we prioritize selecting suppliers with excellent engineering qualifications, system certifications, good business reputations, and a sense of responsibility. By doing so, we will boost the resilience of the supply chain and create a sound development environment. In 2024, we developed a total of 60 new suppliers possessing certification certificates for three types of management systems: quality, environment, and occupational health and safety, accounting for 13.7% of the total suppliers.

New suppliers in 2024

60

Suppliers possessing certification certificates for three types of management systems: quality, environment, and occupational health and safety

13.7%

Supplier review performance

Review item	Qty. (units)
Suppliers with quality management system certification	68
Suppliers with environmental management system certification	60
Suppliers with occupational health and safety management system certification	63
Suppliers whose cooperation is suspended due to non-compliance	0
Potential suppliers rejected due to non-compliance	0

Access criteria for responsible procurement:

- Supplier possessing valid engineering qualifications, quality, safety, environmental protection, and other production and business operation qualifications, licenses, quality certifications, etc. issued by the country and relevant departments;
- Supplier with a good business reputation, without illegal records in business activities in the past three years;
- The supplier's qualification documents queried on the National Enterprise Credit Information Publicity System are true;
- The supplier is not included in the list of dishonest debt defaulters or parties involved in major tax illegal cases recorded on the "Credit China" website.

Our suppliers are required to make the following commitments regarding the implementation of the SA8000 Social Accountability:

- Comply with all the provisions of the SA8000 Social Accountability and local labor laws and regulations, including:

- Prohibit the use of child labor and forced labor, and do not cooperate with any suppliers or subcontractors that use child labor or forced labor.
- Respect the freedom of workers and ban any form of forced labor.
- Provide safe and hygienic working and living conditions to ensure the safety and health of employees.
- Promote labor-capital cooperation and respect employees' freedom of association and the right to collective bargaining.
- Create an equal and fair working environment and prohibit any form of discrimination.
- Respect employees' basic human rights and prohibit any form of demeaning behavior.
- Reasonably arrange production plans, and employees' working hours, rest and leave.
- Provide reasonable wages and welfare that should at least meet the basic needs of workers and the minimum wage standard.
- Comply with applicable environmental management regulations, laws and standards, and follow local environmental practices.
- Abide by the safety procedures in factory to prevent unauthorized goods (such as drugs, dangerous goods or explosives, biological and other contraband) from being mixed into the shipments.

- Accept and cooperate with on-site social responsibility audits, and provide the truthful and complete information required for audits.

- Promptly take corrective and remedial measures for non-compliance that violates the SA8000 Social Accountability.

Localized development

In response to the call of local government to support local development, we give priority to local suppliers in the development and access process of new suppliers. This approach will attract regular suppliers to set up factories locally. In the long run, it will help reduce procurement costs, improve supply chain efficiency, and develop local economy, ultimately establishing long-term supply partnerships with the Company.

Supplier risk evaluation

The supplier ESG is assessed once a year. During the reporting period, we investigated sustainable development of 80 suppliers and held EHS preliminary surveys of 84 suppliers. Based on the data obtained, we identified potential risks in the supply chain in economy, environment and society, thereby enhancing the stability and risk-resistance ability of the supply chain.

Supplier training and communication

We facilitate communication and information sharing, and promote the collaborative development of the supply chain by organizing activities such as supplier symposiums, supplier business training, and anti-corruption training on suppliers, etc. In 2024, we provided training for 500 suppliers specialized in tower barrels, blades, main engines, and hydrogen energy, etc. Suppliers were also trained on how to operate our self-developed Supplier Relationship Management System (SRM System) to improve their business processing capabilities.



Supplier training on the SRM System

Case: Held the 2024 Symposium on key Logistics Suppliers

On November 28, we held the 2024 Symposium on key Logistics Suppliers, attended by representatives from 17 key logistics suppliers. At the symposium, we introduced the future cooperation model and innovation mechanism, and expressed our expectations regarding transportation safety, efficiency, and service quality from suppliers. Taking this opportunity, we also gained an understanding of suppliers' experiences and insights in innovative transportation management, cost-reduction and efficiency-enhancement strategies, and service capabilities improvement, etc. In summary, we were dedicated to exploring efficient, safer, and excellent logistics solutions.



Responsible mineral procurement

We have included the regulations on conflict minerals into our Supplier Code of Conduct for Sustainable Development. According to the regulations, all suppliers should formulate policies to prevent the tantalum, tin, tungsten and gold contained in their manufactured products from directly or indirectly financing or benefiting armed groups that seriously violate human rights in the Democratic Republic of the Congo or its neighboring countries/regions. Suppliers are also required to conduct due diligence on the origin and chain of custody for these minerals in terms of production and sales.

04

Amicable and Humanistic Working Environment

Employee rights
and interests

Employee
development

Employee health
and care

Work
safety

We practice the principle of supporting, safeguarding, and ensuring employee rights and interests in development. To achieve this goal, we continue to improve the salary and welfare system, as well as the training and promotion mechanism. Meanwhile, efforts are also made to standardize the occupational health and safety management system. These initiatives signify our determination to create a diverse, equal, inclusive, and sound work environment where employees grow in all aspects.

Key achievements in 2024

13,947 employees in total

RMB 6.5 million invested in employee training

13.86% of female employees among middle-level and senior management staff

53.29h/person on average for training

RMB 29.3525 million invested in work safety



Safeguard the Basic Rights and Interests of Employees

| Diversity, equality, inclusion, and sense of belonging

Law-compliant employment

According to our *Recruitment Management Regulations*, it is necessary to strictly ensure equal employment opportunities and hold the recruitment in an open and fair manner. We resolutely reject any discrimination arising from race, ethnicity, gender, nationality, and religious belief. Illegal employment practices are forbidden, such as hiring child labor and using forced labor. This aims at organizing a legal and compliant recruitment. During the reporting period, we signed labor contracts with all employees (100% contract signing rate), and the structures of workforce tended to be rich and diverse.

Unethical or insulting words and deeds of employees are prohibited, in order to reduce the discrimination caused by inappropriate behavior from the root. In case of any potential employee discrimination, we will immediately review this discrimination, and propose corresponding remedial plans based on realities. We will offer adequate care and compensation to the affected parties, while the individuals involved will be educated or seriously dealt with. In addition, we seriously assess the remedial results through our internal routine management review process to avoid similar discrimination in the future. In 2024, no discrimination occurred.

According to the Recruitment Management Regulations:

- All job opportunities should be publicly announced on time via internal and external channels.
- The recruitment should ensure the consistency between recruitment procedures and personnel selection criteria; candidates should be selected based on their suitability for the positions.
- New employees are required to provide their identification documents for verification during the entry process. Recruiters should verify the information of each applicant according to the Recruitment Procedures, in order to avoid hiring child labor at the source.



Key performances

In 2024, we had

Total employees

13,947

Female employees

2,151

Proportion of female employees

15.42%

Proportion of female employees among middle-level and senior managers

13.86%

Employees with disabilities

98

Employees from ethnic minority groups

1,177

Proportion of employees from ethnic minority groups

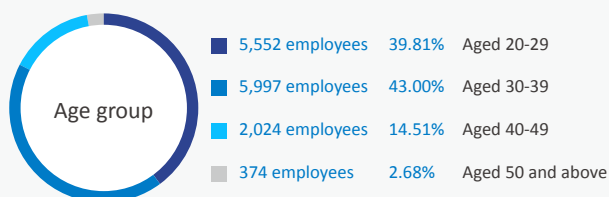
8.44%

Fresh graduate employees

578

New employees

3,536



Democratic management

We have formulated the Internal Communication Management Procedures, stipulating diverse channels to communicate with employees, such as OA system, email, enterprise WeChat, telephone, employee symposiums, and Employees' Congress. If there are any major operational changes and they may significantly impact employees and their representatives, we will promptly keep them informed before changes so that they can make preparations in advance.

Aiming to understand employees' life, we hold employee satisfaction survey once a year to figure out their experience in compensation and benefits, teamwork, and work-life balance, etc. Apart from the traditional questionnaire surveys, highly interactive forms such as group interviews and one-on-one feedback sessions are also adopted in the survey. Through these methods, we can deeply understand the needs and work difficulties of employees. Dedicated personnel are arranged to follow up on and implement the feedback provided by employees. We offer centralized and public responses to the common issues raised by employees, and this fully demonstrates our respect for employees' democratic rights, such as the right to know, the right to participate, the right to express opinions, and the right to supervise the Company. Guided by the results of employee satisfaction survey, we further adjust working environment and welfare benefits to optimize employee experience and enhance their sense of belonging and identity.

Labor dispute handling

In case of a labor dispute, we encourage employees to have face-to-face consultations with their direct supervisors and the Human Resources Center, striving to reach a settlement. If the negotiation fails, employees can submit a written arbitration application to the labor dispute arbitration commission within one year from the date labor dispute occurring. The arbitration commission will hold a hearing and make a ruling in accordance with the law. If either the employee or the Company is dissatisfied with the arbitration result, except in cases specified by special laws, they can file a lawsuit with the people's court within 15 days after receiving the arbitration award. The court will conduct a trial as per legal procedures and make a judgment with enforceable power. During the reporting period, no labor disputes occurred.

Protection of rights and interests of flexible employees

We have taken proactive actions to safeguard the rights and interests of flexible employees.

Compensation and benefits	Guarantee equal pay for equal work of flexible employees; regularly review and adjust the compensation of flexible employees to ensure it is fair and rational;
Career development	Provide the same trainings for flexible employees as for full-time employees to support the career development of flexible employees;
Communication mechanism construction	Establish an efficient communication platform; resolve issues of flexible employees promptly to enhance their sense of belonging;
Safety assurance	According to the level of work risks, provide flexible employees with sufficient and standard-compliant personal protective equipment to ensure their work safety.

Care the work and lives of employees

We show love to employees in each detail, including but not limited to: providing employees with necessary material support; enriching employees' amateur cultural life; caring for special groups, and improving the working environment of employees. In doing so, we aim to comprehensively boost employees' sense of well-being, belonging, and achievement. To some extent, this is conducive to building a business community for the Company and employees to grow happily together.





Material support

- Set up a housing purchase fund - Housing Settlement Plan for employees, which provides interest-free loans for the first house purchase to eligible employees
- Provide free medical check-ups for all employees and keep continuous records
- The labor union of presents holiday gifts to all employees during festivals such as the Mid-Autumn Festival and the Spring Festival, etc
- Provide wedding and childbirth cash gifts



Spiritual culture

- Organize interest groups such as photography clubs and running groups; hold cultural and sports activities irregularly, including fun games, Spring Festival galas, running events, and mountain-climbing activities, etc.
- Offer diverse fitness courses, namely yoga, jazz dance, and Pilates, matched with training activities



Assistance for special groups

- Regularly pay visits and organize dining gatherings to care key employees such as employees in difficulty and front-line employees
- Establish the Mingyang Love Fund to assist employees in difficulty and their immediate family members



Care for female employees

- Regularly launch abundant activities for female employees throughout the year, such as flower-arranging workshops and DIY hand cream-making
- With great attention to the health of female employees, we regularly organize cervical and breast cancer screenings and offer courses on gender health and marital relationships
- Assist in constructing Maternal Care Room to implement the parental leave for female employees



Work environment

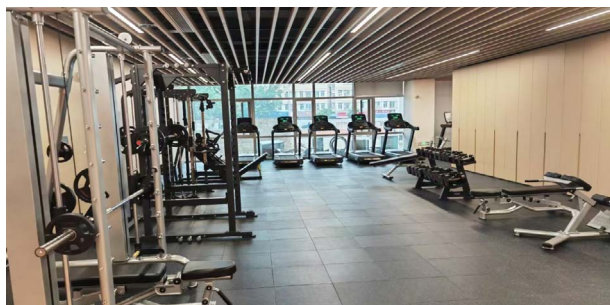
- Increase the variety and quantity of green plants in the office area; arrange large potted plant landscapes in public areas including meeting rooms and rest areas
- Equip employees with office desks and chairs that conform to ergonomic principles, adjustable monitor stands, and other auxiliary equipment, etc.
- Arrange free facilities such as the library, gym, table-tennis room, badminton court, basketball court, and football field



The 16th Sports Games



Team Football Match



Industrial park gym



Yoga courses at Cultural and Sports Center

Compensation management

Compensation and benefits system

We have prepared the *Compensation Management Measures* to continuously optimize the compensation and performance mechanism. According to the measures, employees' compensation should be "fair in the Company and competitive in the industry", and paid according to their "positions, performance, and abilities". Meanwhile, we provide employees with compensation higher than that in the industry after considering the compensation levels in the industry and the actual supply-demand relationship in the talent market.

During the reporting period, we paid all employees' salaries on time and contributed to their social insurance (100% social insurance coverage rate).

Key performances

Social insurance coverage rate

100%

Welfare expenditure

RMB **413.8565** million



Compensation structure

Post salary + performance bonus + overtime pay + year-end bonus + various subsidies (heatstroke prevention and cooling expenses, heating subsidies, housing allowances, meal allowances, communication subsidies, etc.)



Statutory benefits

Five social insurances and one housing fund (endowment insurance, medical insurance, unemployment insurance, work-related injury insurance, maternity insurance, and housing provident fund), legal holidays, paid annual leave, marriage leave, maternity leave, paternity leave, sick leave, etc.



Voluntary benefits

Supplementary medical insurance, employer liability insurance, and diverse lifestyle services (providing employees with accommodation, canteens, gyms, yoga classes, as well as basketball courts, football fields, badminton halls, table-tennis halls, running clubs, etc.)



Incentive policies

Annual salary adjustment, salary adjustment based on job grade promotion, year-end performance bonus, project bonus, high-value interest-free housing loans, medium-and long-term equity incentives, etc.



Performance management

In 2024, in view of characteristics of departments at different levels, we implemented the refined and differentiated appraisal strategies for performance appraisal. The performance of first-level department heads was assessed quarterly, and the appraisal results were closely linked to the completion of business indicators. This helped control corporate phased business goals. For functional departments without quantifiable business indicators, we launched a peer evaluation and business-line evaluation mechanism to guide and assess whether they could effectively support the business. During the reporting period, the performance and career development of all employees (100%) were assessed at a regular time.

The setting of assessment indicators should be comprehensive and targeted. In addition to specific business indicators, indicators for team learning and growth have been specifically added to the performance appraisal of management leaders. Management leaders are required to focus on organizational structure building, human-resource cost control, retention rate of key positions, and organizational vitality, etc. Work behavior performance is included in employee assessments to stress their performance in achieving customer success, pursuing excellence, and personal learning and growth, etc. Management leaders in some business departments should achieve indicators related to energy conservation, emission reduction and carbon reduction. They will be subject to both positive and negative assessment incentives in accordance with the performance management measures for middle and senior managers. We plan to further refine the ESG assessment indicators and expand the assessment scope in 2025.

We continue to improve our performance feedback and appeal mechanism. Specifically, in accordance with the Performance Appraisal Management Measures and the Employee Handbook, we strictly prohibit leaders from appointing employees based on personal connections. Meanwhile, they should evaluate employees' performance and capabilities objectively and fairly, with clear rewards and punishments. If employees are dissatisfied with the performance appraisal results, they can raise objections to the Human Resources Center. Meanwhile, we encourage employees to actively report and complain about acts such as abuse of power and rent-seeking by leading cadres, so as to maintain a fair appraisal environment.

Employee equity incentive

On the premise of fully safeguarding the interests of shareholders, we formulate and implement an equity incentive plan to grant restricted stocks to eligible incentive recipients, in accordance with the principle of "equalizing returns with contributions". This incentive plan is formulated pursuant to the provisions of the Administrative Measures for Equity Incentives of Listed Companies issued by the China Securities Regulatory Commission, as well as other relevant laws, administrative regulations, regulatory documents, and the Articles of Association of the Company. All of these efforts are aimed at further establishing and improving the corporate long-term incentive mechanism to attract and retain outstanding talents.

The recipients of corporate equity incentive include directors, senior managers, middle-level managers, core technical (business) backbones, and other employees whom we deem worthy of incentive and who have a direct impact on the corporate business performance and future development. The specific list of incentive recipients shall be drafted by the corporate Remuneration and Evaluation Committee and verified and finalized by the Board of Supervisors.

On October 21, 2024, the Board of Directors reviewed and approved the Proposal on the Fulfillment of the Conditions for Lift of Restrictions on the Fourth-Phase of the Initial Grant Portion and the Third-Phase of the Reserved Portion of the 2019 Restricted Stock Incentive Plan. In terms of incentive recipients meeting the conditions for lift of restrictions, with the authorization from the 2019 Shareholders Meeting, we agreed to handle the procedures for lifting the restrictions on 5,287,600 restricted stocks held by 195 incentive recipients of the initial grant and 2,111,200 restricted stocks held by 93 incentive recipients of the reserved grant.

Empower Talent Development and Promotion

Employee training

Employee training system

We cultivate differentiated and distinctive talents to build a future-oriented talent supply chain, so as to meet the development needs of three talent echelons of “leading forces, active forces, and emerging talents”. This is useful to continuously improve and perfect the talent cultivation system.

As of 2024, we had improved internal training systems such as the *Training Management Regulations*, the *Lecturer Management Regulations*, and the *Management Regulations for Qualification and Rank Assessment*. Moreover, a curriculum system was established, covering professional quality, R&D technology, marketing, engineering operation and maintenance, production operation, quality and safety. We also took the lead in developing more than 400 courses for each business segment and formed an internal lecturer team composed of more than 500 members. During the reporting period, we organized nearly 3,000 training programs (including online learning plans, O2O programs, offline programs, live broadcasts, etc.) through our online learning platform, “My-learning”. These programs were attended by participants of 183,000 person-times.

In reporting period

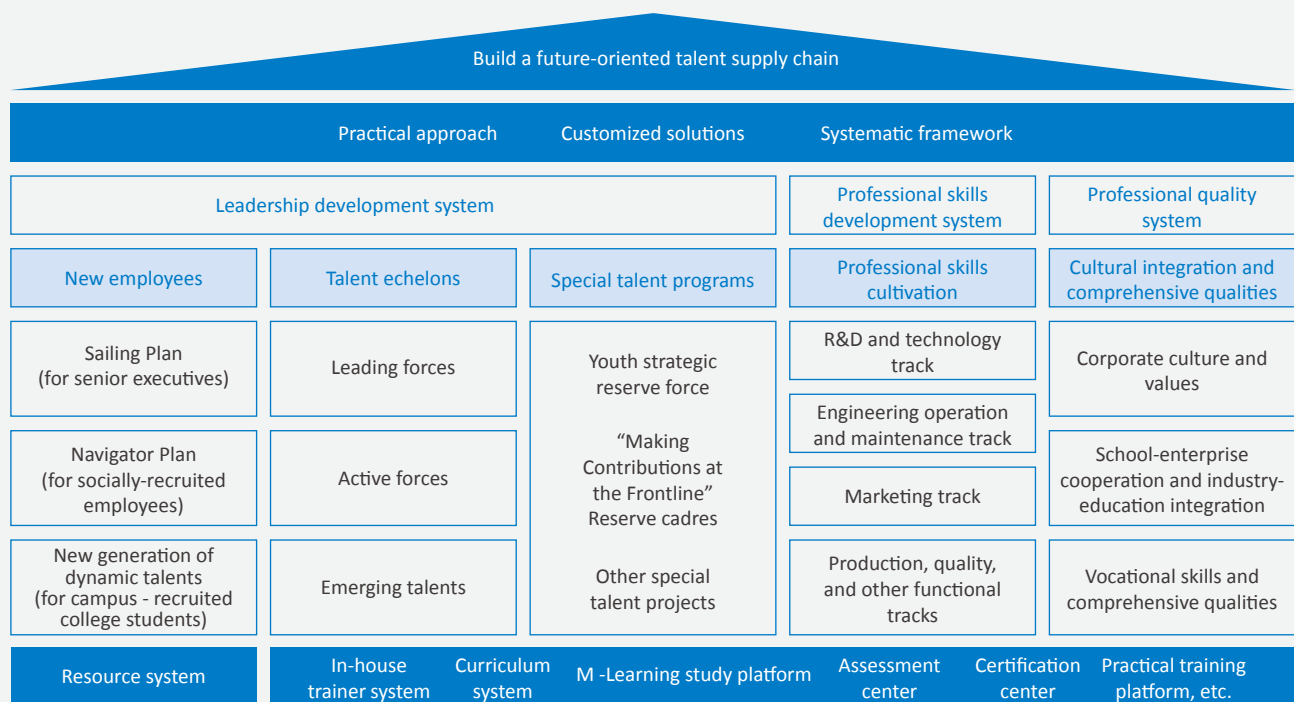
Our online learning platform organized

over **3,000** training programs

Training programs were attended by participants of

183,000 person-times

Employee development system of Mingyang Smart Energy



Training programs in 2024	Target audience	Positioning/objectives	Form
Leading forces	Corporate senior executives and core backbones	Build competent and sustainable core leading teams	Cooperate with the School of Economics and Management, Tsinghua University to offer themed courses such as Traditional Chinese Wisdom and Leadership Strategies; Business Model Innovation; New Energy Technology Practice and Scenario Analysis.
Active forces	Middle-level managers	Cultivate reserve talents who "understand strategies, are proficient in business, and are good at management"	Develop courses themed by "business thinking, coaching leadership, high-performance teams, performance management and improvement, market-driven technological innovation, and strategic management".
Emerging talents	Professional and technical employees	Develop professional emerging and technical talents	Offer a number of high-quality courses, including online high-potential training camps and introductory management. Cultivate general professional competencies and specialized business capabilities to accumulate experience in real work scenarios.
New generation of dynamic talents	Fresh graduates	Accelerate cultural integration and help employees become competent in their positions	Design a learning map around competency dimensions such as "thinking transformation, business integration, growth breakthrough, and cultural symbiosis"; build a themed course system, and establish a team of instructors.

Employee training assessment

We directly connect training outcomes with salary incentives and promotion channels to encourage more employees to participate in trainings. For new socially-recruited employees, learning performance of the induction training will be a key indicator of learning and growth and included in the performance appraisal with a weight of 10%. For fresh graduates, the learning performance is a factor affecting their regularization assessment, the selection of excellent trainees in the intensive training, and the selection of outstanding college students. For the three talent echelons of "leading forces, active forces and emerging talents", their learning performance will serve as the core basis for the exit assessment of leadership talent echelon, promotion evaluation, and the selection of outstanding trainees. During the reporting period, all employees participated in the performance appraisals and career development evaluations regularly.



Employee training performance

Key performance

Employee training coverage rate

100%

Investment in employee training

RMB **6.5** million

Employee training

2,932 times

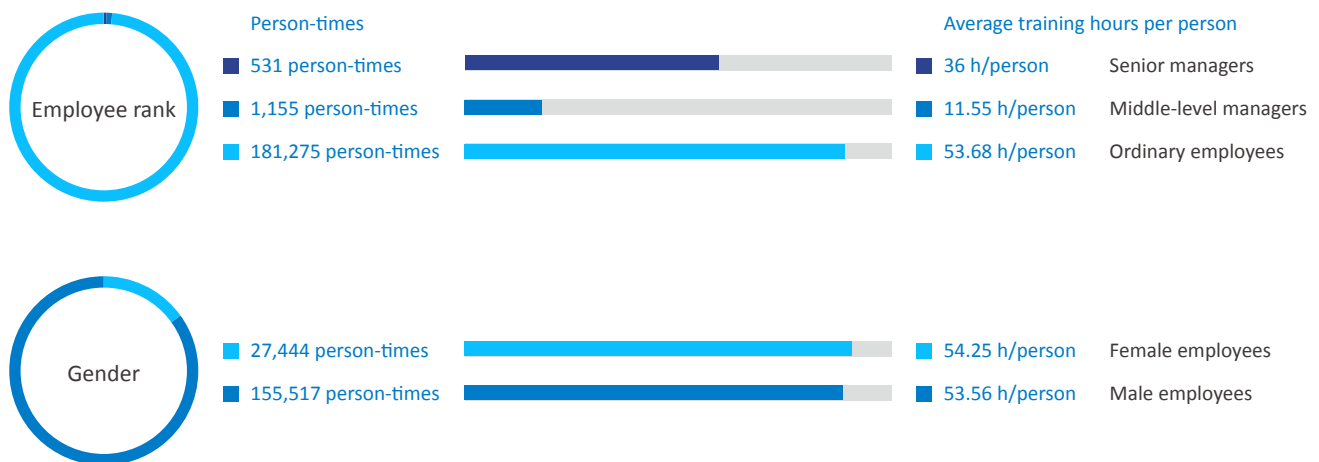
Average training duration

53.29 hours/person

Total training duration

734,499 hours

Trainings by category



Support education and skills improvement of employees

We continue to increase investment in employees' education and skills improvement, and encourage employees to pursue further studies to improve their academic qualifications. Specifically, if employees are admitted to engineering master's or doctoral programs, we cover all the tuition fees (100%). If they are admitted to management-related institutions such as MBA programs, we offer 80%-100% cost reimbursement. Aspiring to improve professional skills and qualifications of employees, we offer 100% cost reimbursement for employees obtaining on-the-job operation qualification certificates. Moreover, the Mingyang School Training and Certification Center is established to assist employees obtaining special operation certification and related services. During the reporting period, the Certification Center offered trainings for high- and low-voltage electrician certificates, high-altitude operations, and safety administrators. These trainings were attended by employees of 1,300 person-times, with an initial pass rate of about 90%, ranking among the top three in the city.

Employee promotion

Talent selection and mobility mechanism

We are equipped with an internal compound talent development mechanism and an internal talent market. The result-oriented “talent scouting” and “horse racing system” mechanisms are adopted to strictly assess key talents and important positions, with clear rewards and punishments. Additionally, we have set up talent exchange mechanisms such as job rotation for key business positions, and internal exchange and mobility mechanisms, etc. These mechanisms create development spaces for horizontal flow of talents across regions, businesses, and sectors. At the same time, measures have been taken to optimize the channels for “the capable to advance and the incompetent to be demoted”. A dynamic talent pool is established for human resources.

Job sequence and rank system

Based on the differences in work content and nature of positions, we scientifically divide three major promotion channels and five job sequences. To be specific, three major promotion channels include management channel, operation channel, and professional channel. The five job sequences are management (M) sequence, operation (O) sequence, technology (T) sequence, profession (P) sequence, and engineering operation and maintenance (E) sequence. Among them, technology (T) sequence, profession (P) sequence, and engineering operation and maintenance (E) sequence all fall within the scope of the professional channel. There is a unified rank system. A total of 16 job ranks are set based on factors such as the responsibilities and relative organizational contributions of jobs in the career development channels; the number of ranks vary among different job sequences.



Management channel (M sequence)

Including three levels, namely senior managers, middle-level managers, and front-line managers



Operation channel (O sequence)

Including three levels, namely backbone employees (Level 3), experienced employees (Level 2), and novice employees (Level 1)



Professional channel (T/P/E sequence)

Including five levels, namely authorities (Level 5), experts (Level 4), backbone employees (Level 3), experienced employees (Level 2), and beginners (Level 1)

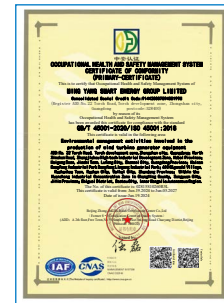


Safeguard Occupational Health and Safety of Employees

Occupational health management

We continue to improve and perfect occupational health management systems, and issue regulatory documents such as occupational health management systems and operating procedures. These documents are prepared to strengthen our capabilities in identifying occupational disease risks, and comprehensively safeguard the life, health and safety of employees. In 2024, we provided regular health check-ups for all employees, strictly kept employees' health information confidential and standardized personnel data management in whole process (including collection, storage, and destruction). We still maintain a zero-case record of occupational diseases by far.

As of now, our headquarters, five affiliated units, ten final assembly plants, and six blade factories have passed the ISO 45001 Occupational Health and Safety Management System certification.



Mingyang Smart Energy Group Limited ISO 45001 Certificate



Guangdong Mingyang New Energy Technology Co., Ltd. ISO 45001 Certificate



Management system

Pursuant to the laws and regulations such as the Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases, we have formulated a series of institutional documents, including the Responsibility System for the Prevention and Control of Occupational Hazards, the Warning and Notification System for Occupational Hazards, the Publicity, Education and Training System for Occupational Disease Prevention, the Management System for the "Three Simultaneities", and the Management System for Safety, Fire-fighting, Environmental and Occupational Health Signs, etc. These systems are designed to implement occupational health management in details and regulate management in order.



Management measures

Centering on the principle of "three simultaneities", we ensure that the occupational disease prevention facilities are designed, constructed, and put into use simultaneously with the main project. In addition, we have established a ledger for occupational disease prevention facilities, occupational health surveillance files (including one file per person), an emergency management system, and an occupational health training system. These training systems offer pre-job, on-the-job, and special-purpose training for all employees. In particular, we strengthen the training requirements for positions with process changes or high-risk hazards.



Risk identification

With the help of regular detection of occupational hazard factors and reality evaluations (units with severe hazards are tested once a year and undergo a reality evaluation once every three years, while general units are tested once every three years), we systematically identify the sources of occupational safety risks, such as dust, radioactive substances, and other toxic and harmful factors. Based on the test results, we apply hierarchical management and control of the harmful factors. Workplaces where the hazard levels exceed the standards are required to treat hazards or stop the work.

Case: Mingyang New Materials upgrades and renovates its safety production facilities and equipment

Mingyang New Materials comprehensively designs and renovates the cutting equipment to address the severe dust pollution and poor working environment caused by the previous practice of manual hand-held equipment for blade flash cutting. The new equipment can automatically cut 100% of the leading edge and 80% of the trailing edge of the blade, with the remaining part cut with manual assistance. This renovation greatly alleviates the labor intensity of employees, and reduces dust pollution during the operation, thus safeguarding the health of employees. Nowadays, this equipment has been successfully tested at the Daqing Base.

Work safety management

Upholding the concept of “putting lives first and promoting safe development”, we have established a full-process safety management system vertically integrated and horizontally coordinated. Works have been done to deepen the full-chain control of work safety for stakeholders such as employees, contractors and suppliers, in order to achieve full-cycle closed-loop management of risk prevention, hidden danger remediation, and emergency response. Supported by standardized systems and regular safety trainings, we systematically cultivate the safety responsibility awareness and emergency response capabilities of employees, dedicated to strengthening the long-term and solid defense line for work safety. In 2024, we invested a total of RMB 29.3525 million in work safety.

Key performances

Investment in work safety

RMB **29.3525** million

Investment in work-related injury insurance

RMB **6.807** million

Coverage rate of work-related injury insurance

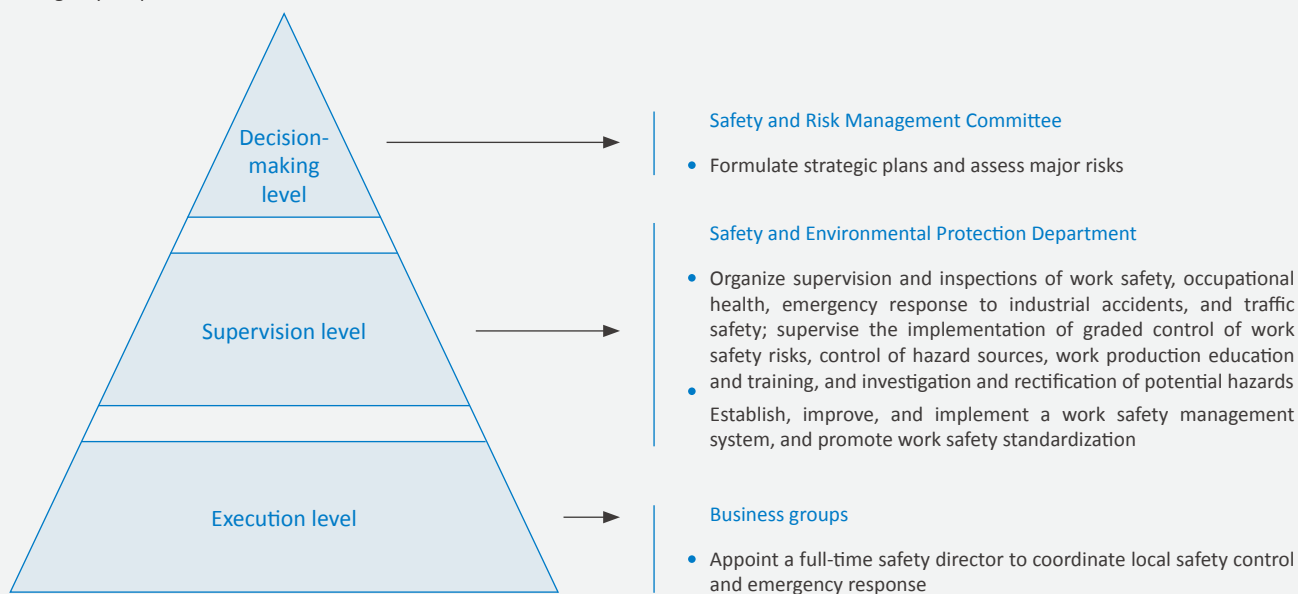
100%

Safety management system

Disclosure of four key elements of the Work Safety topic

Governances

A three-level linkage mechanism has been established. In this mechanism, the Safety and Risk Management Committee makes overall decisions; the Safety Supervision Department of headquarters provides vertical guidance; the safety execution units of each business group take charge of on-site management. Intending to enhance the standardization of work safety management, we have successively issued institutional documents, including the Work Safety Responsibility System, the Work Safety Reward and Punishment System, the Management System for Safety Education and Training, the Management System for Equipment Safety, the Management System for Work-related Injury Accidents, and the Management System for Emergency Response Plans, etc.



Strategy

Work safety is taken as a strategic support for sustainable development. In this regard, we integrate work safety management into our long-term development plan to achieve coordinated safety management objectives and business strategies. Furthermore, we develop a detailed work safety management plan to clarify the executive departments, time nodes, verification methods, etc., as well as the responsibility and incentive mechanisms. Based on the mechanisms of target decomposition, process control, and closed-loop evaluation, we continuously transform safety management from passive response to proactive prevention, and comprehensively boost the intrinsic safety level, in order to safeguard our strategic transformation and leading position in the industry.

Management of impacts, risks, and opportunities

Natural risks and responses

Facilities such as wind turbines and towers in wind field are threatened by extreme weather conditions including typhoons, rainstorms, and lightning, as well as geological disasters like earthquakes, landslides, and mudslides. As a result, construction safety is affected. In response, we strengthen meteorological and geological disaster monitoring; reinforce facilities such as wind turbine foundations and towers; improve emergency response plans to boost disaster-resistance capabilities.

Equipment risks and responses

Key components such as blades, gearboxes, and generators of equipment like wind turbines are prone to aging and wear after long-term operation. Malfunctions may also occur in the electrical and control systems. In this regard, we establish and improve equipment maintenance regulations for regular inspections, repairs, and maintenance of equipment; damaged components are replaced promptly.

Management risks and responses

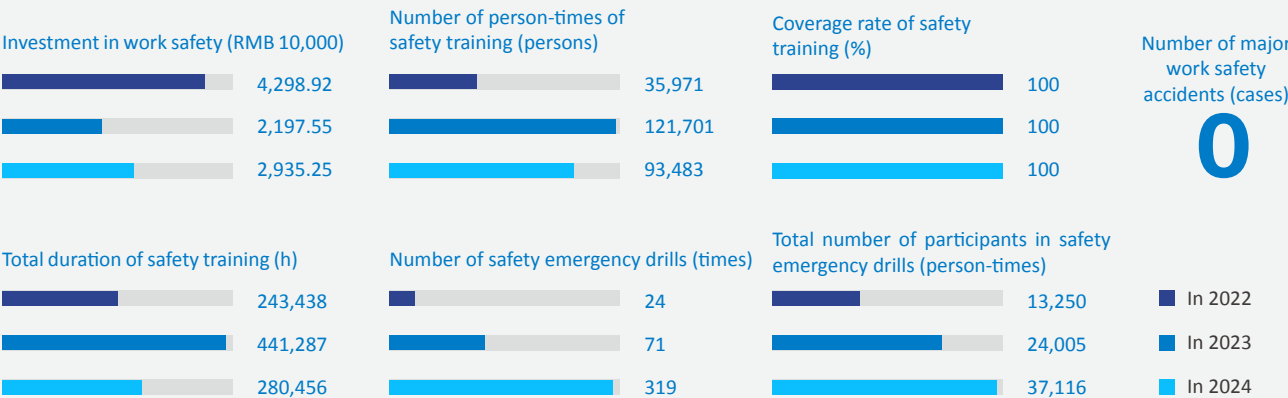
Work safety is influenced by imperfect work safety management systems, a lack of work safety training, and poor communication and coordination among departments. In order to address this risk, we complete safety management regulations to clarify the safety responsibilities of personnel at all levels. Meanwhile, systems are improved such as assessment, rewards and punishments, and hidden danger investigation and management. More investment is made in work safety because we think it is the core value and competitive advantage of the Company. This is conducive to polishing corporate image, strengthening customer trust and improving market competitiveness.

Technological innovation risks and responses

With the continuous updating and iteration of wind power technology, new technologies applied may lead to new safety risks. For example, accidents may be caused by the use of chemicals, high-voltage equipment, or new materials. To cope with this risk, we actively organize pre-application risk assessments of new technologies, adopt new technologies to improve workplace safety, and train employees with special safety operation standards.

Indicators and goals

Work safety management indicators



In light of realities of work safety, we develop Work Safety Target Management System and the Work Safety Target and Indicator Assessment System. Adhering to principles of “integration and consistency”, “hierarchical responsibility” and “balanced coordination”, the safety team formulates annual and monthly work safety targets based on the corporate overall strategy and work safety needs. Then, these targets are submitted to the general manager for approval. Finally, targets are decomposed into the form of safety target responsibility statements and sent to departments and employees at all levels to understand safety requirements. In doing so, we ensure each employee is involved in safety management. In the long run, a comprehensive system and management framework helps realize the clear, operable and quantifiable work safety management objectives, thereby accelerating the improvement and implementation of work safety tasks.

Work safety management goals in 2024

Progress

- Established a list of post responsibilities and the corresponding inspection and assessment mechanism
- Arranged enough personnel in safety and environmental protection management. Authorized and appointed the person in charge of safety management and safety administrators, and clarified their safety management responsibilities
- Occupational disease occurred in 2024: 0
- Relatively large work safety liability accidents occurred in 2024: 0
- Power safety accidents of general level or above occurred in 2024: 0
- The cumulative deduction points for accidents in 2024 were less than 10‰ of the total number of employee in the jurisdiction
- All employees signed the work safety responsibility statement for 2024

Completed

Emergency management

Following the work safety laws, we have formulated supporting emergency response plans, such as the Emergency Response Plan for Work Safety Accidents, the Emergency Rescue Management System, the Special Emergency Response Plan for Fire Accidents, the Special Emergency Response Plan for Hoisting Accidents, the Special Emergency Response Plan for Container Explosion Accidents, and the Special Emergency Response Plan for Confined Space Accidents. These special emergency response plans are expected to enhance our abilities to handle risks and prevent accidents.

Safety management of relevant parties

We continue to refine the management system for relevant parties by improving their access, on-site control, and performance evaluation, and manage relevant parties in accordance with the regulations. In addition, we irregularly review their EHS (Environment, Health and Safety) compliance to ensure their compliant production. During the reporting period, no major safety accidents occurred to our partners.



Investigation and remediation of potential safety hazards

We establish and implement a dual-prevention working mechanism: hierarchical control for safety risks; investigation and treatment of hidden dangers. This mechanism is used to strengthen on-site supervision, deepen the investigation and management of hidden dangers, and reinforce the awareness of work safety in all aspects. During the reporting period, we innovatively implemented a three-dimensional supervision model for work safety. Vertically, we launched a three-level joint supervision mechanism featuring headquarters, bases and work teams. We focused on rectifying 445 typical hidden dangers in eight categories (such as hazardous chemicals management and confined-space operations, etc.). Across the entire system, we inspected issues and made rectifications for 5,239 times, investigating and rectifying 20,569 hidden dangers. All major hidden dangers were rectified (100% rectification rate).

Self-inspections and self-corrections
across the entire system

5,239

Hidden dangers investigated and rectified

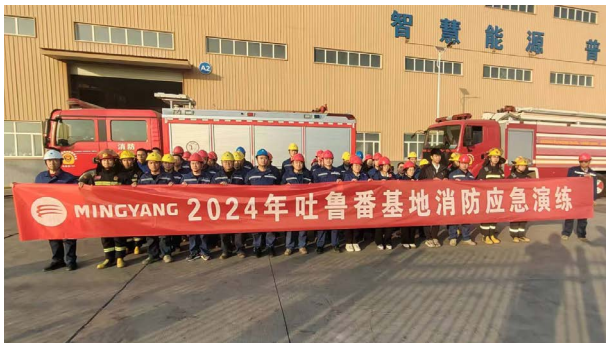
20,569

Rectification rate of major hidden dangers

100%

Safety culture cultivation

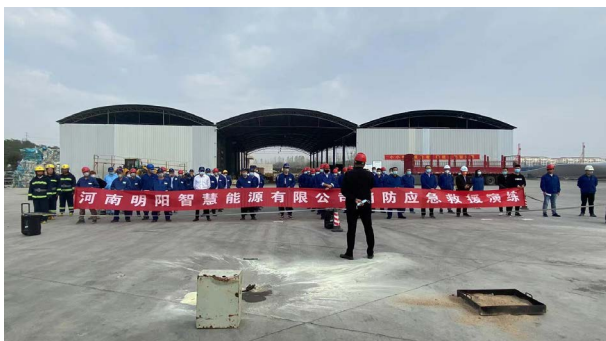
Work safety training plans are designed for personnel with different positions and responsibilities. Employees, contractors and other relevant parties are organized regularly to participate in trainings on safety operation procedures, accident prevention measures, and emergency rescue, etc. This aims to enable them to master necessary safety knowledge and skills, and promote the overall work safety level in the future. During the reporting period, we organized 3,164 EHS trainings with various themes, attended by employees of 101,212 person-times, with a total training duration of 302,765 hours. At the same time, there were five special activities such as the Publicity Week for the Law on Prevention and Control of Occupational Diseases, the Safety Month, and the Fire Prevention Month. Consequently, we have created a dense work safety atmosphere.



Fire Emergency Drill at Turpan Base in 2024



Fire Drill at Baotou Base



Fire Emergency Rescue Drill of Henan Mingyang Smart Energy Co., Ltd.



Anti-heatstroke Emergency Drill at Xinyang Factory of Guangdong Mingyang New Energy Materials Technology Co., Ltd.

05

Shared Benefits and Harmonious Progress

Build a Win-win Partnership

Development of Rural Undertakings

Community Public-service Initiatives

By practicing the values of openness and win-win cooperation, we engage in the rural energy revolution and the rural revitalization strategy in the form of industrial poverty alleviation. We build a positive relationship with partners and communities, advance economic and social progress, and share the development outcomes of clean energy with the public.

Key achievements in 2024

Invested RMB **0.79** million in poverty alleviation and rural revitalization

Invested RMB **26.2153** million in the charity

Volunteer activities were attended by **422** person-times, with a total service duration of **2,096h**

Made a donation of RMB **3** million to Lin'gao County, Hainan Province, and RMB **2** million to Xuwen County, Zhanjiang City, during the typhoon season



Build a Win-win Partnership

Government-enterprise cooperation

To fully implement the Party Central Committee and State Council's decisions on building a new type of "cordial" and "clean" government-enterprise relationship, we adhere to the development philosophy of "maximizing the utilization value of resources, promoting collaborative information sharing, and integrating business development". We are committed to fostering a healthy, standardized, and transparent interaction with the government. Meanwhile, we consistently uphold the "cordial" and "clean" principles as the foundation of our engagement with the government—maintaining open communication, proactively aligning with policy directions, and securing support for corporate growth. Additionally, we actively respond to government initiatives, participating in national and regional energy development strategies such as Guangdong's "One Core, One Belt, and One Zone" strategy and Guangxi's "Attracting Enterprises from the Greater Bay Area to Guangxi" initiative, thus driving energy transition and contributing to high-quality socioeconomic development.

Four principles of government affairs



Adhere to the "cordial" and "clean" principle to solidify the foundation of government-enterprise relations

- Focus on business communication, prioritize project advancement and policy implementation, ensure efficiency and pragmatism, void unnecessary socializing and achieve a balance of being "cordial" yet measured, and "clean" yet effective;
- Strictly abide by laws, regulations, and integrity discipline, eliminate bribery, and uphold a transparent and upright government-business relationship.

Embrace the concept of win-win cooperation to achieve coordinated government-enterprise development



- Leverage strengths in technology, industry, and market within the energy sector to participate in local energy projects and technological innovation, facilitate energy structure optimization;
- Expand business scope with support from government policies and resources to ensure sustainable corporate growth and foster synchronized progress between the government and enterprises.



Implement a tiered coordination mechanism to enhance government-enterprise communication efficiency

- Establish a localized and professional tiered coordination mechanism and design communication strategies based on government functions and corporate operations to ensure smooth channels and accurate information;
- Personnel at all levels should adopt a pragmatic and professional approach in supporting government initiatives, driving efficient implementation of collaborative projects.

Strengthen symmetric information management to promote mutual trust and shared progress between the government and enterprises



- Enhance internal information-sharing platforms and proactively communicate operational, project, and technical progress to the government;
- Stay informed of policy updates through regular reports and thematic meetings to align corporate decisions with policy directions and foster long-term cooperation built on transparency and trust.



Government-enterprise cooperation results

Guangdong

In response to Guangdong's strategic deployment of One Core, One Belt, and One Zone initiative, we are building a Carbon Economy Innovation Industrial Park and an Intelligent Power Transmission and Distribution Equipment Industrial Park in Zhongshan. Additionally, we are establishing marine energy equipment manufacturing bases in Shanwei in eastern Guangdong and Yangjiang in western Guangdong, hoping to accelerate high-quality and cluster-based development of the high-end new energy equipment industry in Guangdong Province.

Guangxi

In response to the call of the People's Government of Guangxi Zhuang Autonomous Region for Attracting Enterprises from the Greater Bay Area to Guangxi, we have leveraged local advantages in marine resources to vigorously construct projects such as offshore wind power, marine ranches, and seawater hydrogen production. This has driven local new energy industry and built a new pattern for the energy and power supply in Guangxi Province.

Hainan

We have signed a comprehensive strategic cooperation agreement with the People's Government of Hainan Province to create a new business operation model for the production, storage, transportation, and refueling of green "electricity, hydrogen, ammonia, and methanol" in Hainan. This initiative is expected to make full use of deep-sea energy and contribute to building Hainan a green energy island.

Baotou

A cooperation agreement has been reached between the Company and the Baotou Municipal Government of Inner Mongolia Autonomous Region to build a high-voltage and high-power cascaded energy storage integrated system and a production base for new-energy power electronic products. In Jiuyuan District of Baotou City, we will establish an onshore equipment headquarters group with comprehensive, local and physical operation of wind power equipment. Moreover, we are determined to construct two equipment manufacturing bases in a clustered manner: a wind power industry base in Shiguai District and a power electronics industry base in Jiuyuan District.

Xinyang

We have signed an agreement to comprehensively deepen strategic cooperation with the Xinyang Municipal People's Government of Henan Province. According to this agreement, both parties shall vigorously promote the high-end, intelligent, green, and clustered development of the new-energy equipment manufacturing industry. We aim to build the largest manufacturing base for onshore wind turbine and blade in Central China. By collaborating with upstream and downstream players in the industrial chain and strategic partners, we strive to create a new-energy high-end equipment industrial cluster worth RMB 100 billion, and establish a new energy system dominated by new energy. This agreement facilitates the revitalization and green rise of old revolutionary base area in Xinyang.

Taizhou

An agreement has been reached between the Company and the Taizhou Municipal People's Government of Zhejiang Province. Supported by industrial and resource advantages in Taizhou, both parties will create an all-in-one industrial chain cluster integrating "clean power generation, new energy storage, equipment manufacturing, and technological R&D", dedicated to advancing local economic and social progress.



Enterprise-enterprise cooperation

We have signed strategic cooperation agreements with enterprises such as Sinopec, CNOOC, M Grass, Shenzhen Port Group, China Energy Engineering Corporation Limited, GD Power, BJ Energy INTL, Wanhua Chemical, Baima Lake Laboratory, Siemens (China), and Anhui Province Energy Group Company Limited. According to the agreements, it is necessary to conduct in-depth exchanges in areas such as energy development, factory construction, technological innovation, and talent cultivation. By doing so, we will highlight the advantages of clean energy equipment and the entire industrial chain of wind, solar, energy storage, hydrogen, and combustion.

Case: Mingyang Smart Energy Group has signed a strategic cooperation agreement with Sinopec

On October 24, a strategic cooperation framework agreement was signed between Mingyang Smart Energy Group with Sinopec in Zhongshan City, Guangdong Province. Guided by General Secretary Xi Jinping's new energy security strategy of "four revolutions and one cooperation", the two parties would promote in-depth cooperation in new energy field to create new green productive forces in accordance with the principle of "complementary advantages and win-win cooperation". Moreover, two parties shall jointly strengthen technological innovation and industrial cooperation in areas such as hydrogen energy and new materials, aiming to explore new paths for the integrated development of new energy and petrochemical industries.



Case: Mingyang Smart Energy signed a strategic cooperation agreement with Shenzhen Port Group

On May 22, Zhang Chuanwei, the Party secretary and President of Mingyang Smart Energy, had a discussion with Hu Chaoyang, the Party secretary and Chairman of Shenzhen Port Group. The two parties engaged in deep exchanges on promoting cooperation in the new energy field and aspiring to create new green productive forces. At the meeting, a strategic cooperation agreement was signed. According to the agreement, the two parties should strengthen communication and coordination through special working groups, and combine their superior resources to develop projects in areas such as large-scale marine and energy applications, and green fuel bunkering, etc., so as to achieve win-win results.



Case: Mingyang Smart Energy Group signed a strategic cooperation agreement with M Grass

On March 20, a strategic cooperation agreement was reached between Mingyang Smart Energy Group and M Grass in Hohhot. According to the agreement, the two parties would cooperate in areas such as desertification control, integrated wind-solar power projects, development of sand-fixing biomass resources, and technology-enabled biomass utilization, etc. Targeted measures should be taken to assist in sand prevention and control. Technological innovation means could be introduced to safeguard the Three-North Shelter Forest Program. Moreover, both parties shall shoulder their responsibilities in strengthening the critical ecological security barrier in northern China.



Industry exchanges

In October, we became a member of the Global Wind Organisation (GWO). From that moment, we were determined to join hands with global leading renewable energy equipment manufacturers and developers to formulate and revise the relevant GWO standards, so as to provide wind power practitioners with standardized, systematic and internationalized trainings. At the same time, we would leverage GWO professionalism in safety and quality to facilitate training and development of employees. In 2024, we involved in the formulation of 24 domestic standards.

In addition, we have successively participated in major international exhibitions and conferences, including the World Future Energy Summit, the WindEnergy Hamburg in Germany, the China Wind Power (CWP), and the Global Green Shipping Conference. We were also invited to attend the 2024 CCTV Financial Forum organized by China Media Group. What's more, we had a dialogue with Wei Dong, the Director of Bureau of Private Economy of the National Development and Reform Commission. Both of us discussed the new opportunities for private economy development, and we shared our journey from follower to a global leader in new energy development”



A Membership Agreement Signed with the Global Wind Organisation



President Zhang Chuanwei at the 2024 CCTV Financial Forum

Development of Rural Undertakings

Rural revitalization assistance

We encourage our subordinate regional divisions and bases to communicate and collaborate with local governments at all levels engage in rural revitalization based on local conditions. We have formulated customized support measures according to the real needs in rural industries and rural construction. These efforts are aimed at increasing production and income in the assisted villages and communities, ultimately achieving common prosperity. Specifically, the Yangjiang Base and the People's Government of Yangxi County have developed a plan for the Wind Power Development Across Rural Towns and Villages. They are committed to improving rural infrastructure, making the supply of "electricity, water, and gas" accessible to residents, and providing more jobs for villagers. The Agreement on Pairing Enterprises with Villages for Development and Poverty Alleviation was signed between Zhangjiakou Base with Huojiafang Village, Xuanpingbao Township. The Agreement clarified the key assistance priorities in industry, ecology, culture, talent, and organizational development, striving to achieve mutual benefits and win-win outcomes for both villages and enterprises.

Assistance Priorities in the Agreement on Pairing Enterprises with Villages for Development and Poverty Alleviation

Industrial revitalization

Launch industrial projects such as high-efficiency agriculture, high-quality seed industry, characteristic planting and breeding, folk custom tourism, rural complexes, agricultural and sideline product processing, and modern logistics; expand the sales channels for agricultural products through consumption-based assistance.

Ecological revitalization

Improve and upgrade the rural living environment; construct and maintain rural infrastructure such as village roads, public toilets, and public lighting fixtures, etc.

Cultural revitalization

Protect traditional handicrafts by publicizing rural cultural resources and various intangible cultural heritage resources to advance rural characteristic cultural industries.

Talent revitalization

Intensify efforts to cultivate rural talents such as those who lead others to prosperity and new-type farmers; attract management and technical talents to return to their hometowns for employment and entrepreneurship.

Organizational revitalization

Support the construction of rural grassroots organizations, develop the new-type rural collective economy; cultivate new-type agricultural business entities to improve the qualities of farmers.

Key performances

Investment in poverty alleviation and rural revitalization in 2024

RMB **0.79** million

Donation to the Yangjiang Charity Federation during the Guangdong Poverty Alleviation and Relief Day

RMB **0.3** million

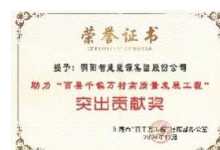
Streetlights installed

56

Investment in the demonstration area - Jade Mountains over Azure Waters: Port-City Symbiosis jointly built by the Company and the Shanwei Honghai Bay Economic Development Zone

RMB **7** million+

Approximately **580** jobs to the local area



Mingyang Smart Energy won the Outstanding Contribution Award for Assisting in High-Quality Development Project for Hundreds of Counties, Thousands of Towns and Myriads of Villages



Yangjiang Base won the Bronze Cup of the 2023 Guangdong Poverty Alleviation and Relief Kapok Cup

Rural wind power development

We consider rural wind power as a key method to revitalize rural land resources, tourism resources, industrial resources, and rural collective assets. Therefore, we are exploring the "integrated wind power + agriculture" development model in wind power projects in Baimie (Guilin, Guangxi), Yilan (Heilongjiang), Beilin (Suihua), and the Binhai New Area in Tianjin. To be specific, based on a scientific planning of idle land and rural biomass resources, we have improved the rural energy structure, built ecological composite projects, and cooperated with farmers to raise income. With these efforts done, it is possible to create a development pattern characterized by "new energy + rural revitalization + cultural tourism".

As of the end of 2024, the first batch of pilot projects - Wind Power Development Across Rural Towns and Villages had completed a 200MW demonstration project in Huaibin County, Xinyang City, Henan Province. This project benefited 288 villages in the county. Accordingly, this project stimulates the development of construction, building materials, and power-generation equipment, etc.

Community Public-service Initiatives

Public welfare and charity

We have included the Management Measures for Public Welfare Donations in the institutional construction plans to further standardize and manage public service activities. Meanwhile, guided by these measures, corporate regions and bases carry out public welfare and charity activities locally to support charity causes, demonstrating our responsibility and sense of commitment. In 2024, we invested RMB 26.2153 million in the charity field. With outstanding contributions to social public services, we were recognized as one of the Bloomberg Green ESG 50 Most Noteworthy List in China.

Case: Universal love in Zhongshan, we journey as one

During the Lantern Festival, we were invited to participate in the 37th Zhongshan Charity Parade. A parade contingent was formed, composed of 50 employee representatives, including highly-educated talents, R&D personnel, operation and maintenance personnel, and the new generation of dynamic talents. They carried the kindness of philanthropy and humanitarian spirit across the entire city. For a longer period, we thrive together with Zhongshan City and Torch High-Tech Industrial Development Zone in a relationship of shared prosperity. According to statistics, we have donated nearly RMB 15 million in total to the Zhongshan Charity Parade.



Volunteer services

Out of social responsibility, we regularly release volunteer recruitment notices and organize volunteer service activities focusing on the caring for the elderly, creation of a civilized city, and voluntary blood donation. In 2024, our volunteer activities were attended by a total of 422 person-times, with duration of 2,096 hours.



Respecting and caring for the elderly

- During festivals such as the Spring Festival, the Mid-Autumn Festival, and the Double Ninth Festival, we distribute supplies like milk and rice to the elderly living alone and low-income families, to express blessings and condolences to them.
- We have been running the "Warm Handrails" public activity for three consecutive years. Convenient handrails are installed for free to facilitate daily movement of the elderly. In addition, we help address the home safety issues of the elderly in extreme poverty, including those living alone, empty-nesters, left-behind elders, the disabled, and those with severe disabilities.

Creation of a civilized city

- Party members and volunteers are organized to participate in the creation of a civilized city. They act as "urban beauticians" by cleaning community streets to improve the living environment.

Voluntary blood donation

- We launch the Party member voluntary blood donation activity titled "Dedication in Action, Rising Forward". The total blood-donation volume is nearly 30,000 ml.

Community skills training

- A professional team is dispatched to offer skills training on electrical appliance repair, computer operation, etc. in Lianfu Community, in order to enhance the employment ability and work proficiency of local residents. This service serves as a "bridge of mutual assistance" between communities and enterprises.



Warm Handrails Public Activity



Volunteer Home Appliance Repair

Disaster relief and rescue

In case of natural disasters such as typhoons, earthquakes, and floods, we provide financial support and relief supplies to the affected areas immediately. In addition, we participate in post-disaster reconstruction to help the affected areas resume normal life as soon as possible. In 2024, we invested RMB 7.338 million in disaster relief.

In 2024, investment in disaster relief

RMB **7.338** million

Typhoon rescue

During the passage of Super Typhoon Yagi, we donated RMB 3 million to Lin'gao County, Hainan Province, and RMB 2 million to Xuwen County, Zhanjiang City, Guangdong Province.

Fire rescue

We donated RMB 38,000 to the People's Government of Mashi Town, Shixing County, Guangdong Province, to support the forest fire-fighting of the 60MW centralized photovoltaic power generation project.

Flood rescue

We donated RMB 300,000 to Zhenyuan County, Guizhou Province, through the Red Cross Society to support the post-disaster reconstruction after the catastrophic flood.



Employees of the Lin'gao Project Department in the Post-disaster Emergency Rescue and Roadblock Clearance after Typhoon Yagi

Sports development

We sponsor and participate in various sports events. During the reporting period, a total of RMB 660,000 was donated to three events: the Hailing Island Marathon, the Honggu Town Basketball Game, and the Wudangzhao Cycling Race. These donations symbol our support to the development of local sports.



Hailing Island Marathon

Outlook

Every step of our growth is rooted in the unwavering commitment to sustainable development. At the forefront of the energy transition, we commit to our mission of Innovating Clean Energy for All, drive dual carbon goals, and transform ecosystem synergy into disruptive competitiveness. By synergizing intelligent source-grid-load-storage systems, pioneering zero-carbon park solutions, and driving technological breakthroughs, we establish an integrated value chain covering power generation, hydrogen storage, transmission & distribution, and application deployment. At the new developmental journey of 2025, we are poised to map pioneering pathway for the energy revolution.

Forging multidimensional competitiveness across wind-solar-storage-hydrogen-fuel sectors. Supported by the integrated source-grid-load-storage technology system, we accelerate constructing a fully integrated green energy ecosystem, covering the entire value chain from offshore wind farms and solar PV plants to hydrogen storage/transportation and hydrogen-fired power generation. We are driving broader applications of clean energy by innovating the “power generation + hydrogen production + comprehensive utilization” model. In the future, we focus on breaking through core technologies such as flexible power transmission and smart grids to build a smart energy system dominated by multi-interactive “source-grid-load-storage” synergy. Our solution will provide cutting-edge support for the development of next-generation power systems.

Build a new highland for green and zero-carbon industrial development. As a pioneer in zero-carbon park development, we will leverage “technology + standards + scenarios” as our core strategy to create differentiated demonstration models in resource-rich regions and industrial clusters. With assistance of the “direct green-electricity

supply + circular economy + intelligent management” model, we promote the green transformation of traditional industries and explore international pathways for zero-carbon aluminum, green steel, and other products. Meanwhile, we are spearheading the establishment of a standardized framework for zero-carbon industrial parks, and partnering with industry peers to build innovation laboratories, aiming to contribute replicable and scalable paradigms for zero-carbon development.

Grip the “Chinese Core” of the global energy revolution. We will continuously maintain the intensity of R&D investment, with the focus on technological breakthroughs in areas such as offshore wind power, hydrogen energy equipment, and digitalization, etc. In the field of deep-sea development, we are advancing the iteration of key technologies including ultra-large floating wind turbines, and intelligent operation and maintenance systems, etc. In the hydrogen energy sector, we shall take measures to accelerate the industrialization of technologies such as hydrogen-fueled turbines and green hydrogen production, etc. In the digital realm, we shall construct a smart energy management platform to enhance intelligent level of the entire industrial chain. Through industry-university-research collaborative innovation, we aspire to gain a dominant position in cutting-edge technologies, namely perovskite photovoltaics and flywheel energy storage.

Though the road is long, perseverance will lead us to the destination. With a strong sense of ownership and unyielding determination, we will ride the wind and march toward the light, forging an innovative path in renewable energy. We believe this path will benefit the Chinese people, accelerate the green transition, and foster inclusive global development. Together, we will contribute wisdom and strength to building a community with a shared future for mankind!



Appendix

Key Performance Table

Business performance

Indicator	Unit	In 2022	In 2023	In 2024
Total assets	RMB 100 million	689.41	838.61	867.95
Operating income	RMB 100 million	307.48	278.59	271.58
Net profit attributable to shareholders of parent company	RMB 100 million	34.45	3.72	3.46
Earnings per share	RMB	1.57	0.16	0.15
Asset-liability ratio	%	58.86	66.07	68.59
Total tax paid	RMB 100 million	18.57	11.61	13.28
Global cumulative installed wind power capacity	GW	39.99	50.18	57.35
Global newly installed wind power capacity	GW	6.375	10.19	12.12

Environmental performance

Indicator	Unit	In 2022	In 2023	In 2024
Total environmental protection investment	RMB 100 million	0.60	1.10	1.22
Total greenhouse gas emissions	tCO ₂ e	42,928.00	112,197.00	132,869.19
Direct greenhouse gas emissions	tCO ₂ e	3,975.00	7,116.00	7,661.70
Indirect greenhouse gas emissions	tCO ₂ e	38,953.00	105,081.00	125,207.49
Carbon dioxide emissions per RMB 10,000 of revenue	ton/RMB 10,000	0.01	0.04	0.05
Direct energy consumption	tce	/	/	4,113.31
Indirect energy consumption	tce	/	/	27,158.04
Total energy consumption	tce	/	/	31,271.36
Total energy consumption intensity	tce/RMB 10,000 million revenue	/	/	0.01
Power consumption	kWh	68,301,892.73	162,548,474.00	167,879,949.89
Natural gas consumption	10,000 m ³	77.45	1,490.59	251.50

Indicator	Unit	In 2022	In 2023	In 2024
Gasoline consumption	ton	220.50	276.62	134.21
Diesel consumption	ton	292.49	385.71	591.50
Water consumption	m ³ (ton)	533,003.91	1,609,340.25	1,789,028.97
Water consumption intensity	ton/RMB 10,000 million revenue	0.17	0.58	0.66
Total waste gas emissions	ton	/	/	590.40
Volatile organic compounds (VOCs) emissions	ton	3.33	8.32	11.05
Nitrogen oxides emissions	ton	0.45	0.45	1.07
Sulfur oxides emissions	ton	0.01	0.24	0.33
Particulate matter emissions	ton	/	/	2.32
Wastewater discharge	m ³	237,267.60	467,559.00	387,866.92
Chemical oxygen demand (COD) emissions	ton	14.47	34.13	42.34
Ammonia nitrogen emissions	ton	1.95	4.01	4.62
Total amount of non-hazardous waste	ton	14,133.71	9,999.40	23,663.13
Total amount of hazardous waste	ton	392.26	282.23	712.67

Social performance

Indicator	Unit	In 2022	In 2023	In 2024
Whole-machine acceptance rate	%	97.01	97.05	97.16
Product quality satisfaction rate	%	92.78	92.79	91.03
Number of R&D employees	Person	2,501	2,400	2,062
Proportion of R&D employees	%	22	17.78	14.78
Total R&D investment	RMB 100 million	10.98	10.05	11.04
Proportion of R&D investment in operating income	%	3.57	3.61	4.06
Number of annual new invention patents	tem	/	258	165
Number of invention patents applied to main business	Number	84	81	53

Indicator	Unit	In 2022	In 2023	In 2024
Number of invention patent applications	Number	121	116	76
Number of granted invention patents	Number	30	40	55
Number of valid patents	Number	1,006	1,185	1,346
Cumulative number of domestic patent applications	Item	1,732	1,935	2,043
Cumulative number of domestic invention patent applications	Item	688	829	852
Cumulative number of overseas patent applications	Item	8	9	1
Number of annual newly granted patents	Item	/	155	121
Cumulative number of granted patents	Item	/	1,120	1,378
Cumulative number of domestic granted patents	Item	/	1,119	1,377
Cumulative number of overseas granted patents	Item	1	1	1
Cumulative number of R&D projects carried out	Number	75	75	79
Number of R&D platforms	Item	7	8	9
Number of national standards with the Company as participant	Item	28	33	24
Number of international standards with the Company as participant	Item	6	0	0
Cumulative number of copyrights	Item	238	576(papers, monographs)	684(papers, monographs)
Major cybersecurity incidents	Case	0	0	0
Information security training	Time	0	2	4
Number of participants in information security training	Person-time	0	200	400
Information security complaints	Case	0	0	0
Total employees	Person	11,475	13,500	13,947
Number of male employees	Person	9,835	11,406	11,796
Number of female employees	Person	1,640	2,094	2,151
Proportion of female employees among middle-level and senior managers	%	/	13.73	13.86
Number of employees with a master's degree or higher	Person	768	1,064	1,205
Number of employees with a bachelor's degree	Person	3,455	4,118	4,322
Number of employees with a junior college degree or below	Person	7,252	8,318	8,420
Number of ethnic minority employees	Person	956	1,020	1,177
Number of employees with disabilities	Person	/	98	98
Total investment in employee training	RMB 10,000	882.68	762.13	650
Per capita investment in training	RMB	530.9	818.66	360
Total duration of employee training	Hour	458,486	1,112,240	734,499
Per capita training duration	Hour	49.02	97.17	53.29
Employment contract execution rate	%	100	100	100
Social insurance coverage rate	%	100	100	100

Indicator	Unit	In 2022	In 2023	In 2024
Physical examination coverage rate	%	/	95	100
Average number of days of paid annual leave per employee	Day	/	7	7
Number of employees on maternity leave	Person	283	307	402
Return-to-work rate of employees after maternity leave	%	97	94	96
Number of employees on parental leave	Person	41	67	139
Return-to-work rate of employees after parental leave	%	93	96	98
Welfare expenditure	RMB 10,000	35,161.98	38,678.18	41,385.65
Average number of days of paid annual leave per employee	Day	5.37	5.77	6.98
Proportion of employees with regular performance and career development assessments	%	99.5	100	100
Labor disputes	Number	/	/	0
Number of newly-recruited fresh graduates	Person	/	942	578
Number of newly-created jobs	Person	/	2,025	3,536
Employee satisfaction	%	96.04	95.47	96.11
Turnover rate of employees	%	/	/	15.45
Number of employees in positions with occupational disease risks	Person	1,203	988	2,520
Number of employees participating in occupational disease physical examinations	Person	1,203	988	2,520
Number of employees suffering from occupational diseases	Person	0	0	0
Number of employees suffering from occupational diseases	Time	0	0	0
Number of incidents of penalties for violating occupational health and safety laws and regulations	Number	0	0	0
Number of work-related deaths	Person	/	0	0
Proportion of work-related deaths in total number of employees	%	/	0	0
Investment in work safety	RMB 10,000	4,298.92	2,197.55	2,935.25
Number of participants in safety training	Person	35,971	121,701	93,483
Safety training coverage rate	%	100	100	100
Total duration of safety training	Hour	243,438	441,287	280,456
Number of safety emergency drills	Time	24	71	319
Number of participants in emergency drills	Person-time	13,250	24,005	37,116
Major work safety accidents	Case	0	0	0
Total amount of charity donations	RMB 10,000	1,074	8,566.93	2,621.53
Investment in poverty alleviation and rural revitalization	RMB 10,000	730.64	3,800	79
Incidents involving infringement of indigenous rights ¹	Case	0	0	0

Note:

1. We fully respect the rights of indigenous peoples in all operating communities, and have established a liaison mechanism to regularly address their concerns. For more details, please refer to the stakeholder engagement section.

GRI Content Index

Statement of use	Mingyang Smart Energy complies with the GRI standards to prepare the report, and the reporting period was from January 1, 2024, to December 31, 2024
GRI 1 used	GRI 1: Foundation 2021
Applicable GRI industry standards	No applicable industry standards

GRI standards	Disclosure	Page	Explanation of omission		
			Requirements for omission	Reasons for omission	Explanation
General Disclosures					
GRI 2: General Disclosures 2021	2-1 Organizational details	P05			
	2-2 Entities included in the organization's sustainability reporting	P02			
	2-3 Reporting period, frequency and contact point	P02			
	2-4 Restatements of information	P02			
	2-5 External assurance	Omitted	2-5-a; 2-5-b	Not completed	External assurance not carried out
	2-6 Activities, value chain and other business relationships	P05-P07,P69-P81			
	2-7 Employees	P84			
	2-8 Workers who are not employees	P85			
	2-9 Governance structure and composition	P28-P30			
	2-10 Nomination and selection of the highest governance body	P29			
	2-11 Chair of the highest governance body	P29			
	2-12 Role of the highest governance body in overseeing the management of impacts	P14			
	2-13 Delegation of responsibility for managing impacts	P14-P15			
	2-14 Role of the highest governance body in sustainability reporting	P14			
	2-15 Conflicts of interest	P28-P33			
	2-16 Communication of critical concerns	P14-P15			
	2-17 Collective knowledge of the highest governance body	P16			
	2-18 Evaluation of the performance of the highest governance body	Omitted	2-18-a;2-18-b; 2-18-c	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
	2-19 Remuneration policies	Omitted	2-19-a;2-19-b	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
	2-20 Process to determine remuneration	Omitted	2-20-a;2-20-b	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
	2-21 Annual total compensation ratio	Omitted	2-21-a;2-21-b; 2-21-c	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
	2-22 Statement on sustainable development strategy	P17-P18			
	2-23 Policy commitments	P34、 P84			
	2-24 Embedding policy commitments	P34、 P84			

GRI standards	Disclosure	Page	Explanation of omission		
			Requirements for omission	Reasons for omission	Explanation
GRI 2: General Disclosures 2021	2-25 Processes to remediate negative impacts	P34、P84			
	2-26 Mechanisms for seeking advice and raising concerns	P35			
	2-27 Compliance with laws and regulations	P36			
	2-28 Membership associations	P103			
	2-29 Approach to stakeholder engagement	P21			
	2-30 Collective bargaining agreements	P86			
Material Topics					
GRI 2: General Disclosures 2021	3-1 Process to determine material topics	P19			
	3-2 List of material topics	P20			
Economic Performance					
GRI 3: Material Topics 2021	3-3 Management of material topics	P20			
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	P10			
	201-2 Financial implications and other risks and opportunities due to climate change	P38-P42			
	201-3 Defined benefit plan obligations and other retirement plans	P88			
	201-4 Financial assistance received from government	从略	201-4-a;201-4-b; 201-4-c	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
Indirect Economic Impacts					
GRI 3: Material Topics 2021	3-3 Management of material topics	P22-P24, P103-P106			
GRI 203: Indirect Economic Impacts 2016	203-1 Infrastructure investments and services supported	P103-P106			
	203-2 Significant indirect economic impacts	P22-P24, P103-P106			
Procurement Practices					
GRI 3: Material Topics 2021	3-3 Management of material topics	P80-P81			
GRI 204: Procurement Practices 2016	204-1 Proportion of spending on local suppliers	从略	204-1-a;204-1-b; 204-1-c	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
Anti-corruption					
GRI 3: Material Topics 2021	3-3 Management of material topics	P34-P35			
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	P34			
	205-2 Communication and training about anti-corruption policies and procedures	P34-P35			
	205-3 Confirmed incidents of corruption and actions taken	P35			
Anti-competitive Behavior					
GRI 3: Material Topics 2021	3-3 Management of material topics	P36			
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	P36			

GRI standards	Disclosure	Page	Explanation of omission		
			Requirements for omission	Reasons for omission	Explanation
Energy					
GRI 3: Material Topics 2021	3-3 Management of material topics	P52			
GRI 302: Energy 2016	302-1 Energy consumption within the organization	P109-P110			
	302-2 Energy consumption outside of the organization	P109-P110			
	302-3 Energy intensity	P52			
	302-4 Reduction of energy consumption	P45			
	302-5 Reductions in energy requirements of products and services	P52			
Water and Effluents					
GRI 3: Material Topics 2021	3-3 Management of material topics	P52			
	303-1 Interactions with water as a shared resource	P52			
	303-2 Management of water discharge-related impacts	P52			
	GRI 303: Water and Effluents 2018	303-3 Water withdrawal	Omitted	303-3-a; 303-3-b; 303-3-c; 303-3-d	N/A
	303-4 Water discharge	P53-P55			
	303-5 Water consumption	P52			
Biodiversity					
GRI 3: Material Topics 2021	3-3 Management of material topics	P47			
GRI 304: Biodiversity 2016	304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	P47			
	304-2 Significant impacts of activities, products and services on biodiversity	P47			
	304-3 Habitats protected or restored	P47			
	304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations	P47			
Emissions					
GRI 3: Material Topics 2021	3-3 Management of material topics	P52			
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	P42			
	305-2 Energy indirect (Scope 2) GHG emissions	P42			
	305-4 GHG emissions intensity	P110			
	305-5 Reduction of GHG emissions	P110			
	305-7 Emissions of ozone-depleting substances (ODS)	P110			

GRI standards	Disclosure	Page	Explanation of omission		
			Requirements for omission	Reasons for omission	Explanation
Waste					
GRI 3: Material Topics 2021	3-3 Management of material topics	P55-P56			
GRI 306: Waste 2020	306-2 Waste generation and significant waste-related impacts	P55			
	306-3 Management of significant waste-related impacts	P55			
	306-4 Waste generated	P56			
	306-5 Waste diverted from disposal	P55			
Supplier Environmental Assessment					
GRI 3: Material Topics 2021	3-3 Management of material topics	P78-P82			
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	P80			
	308-2 Negative environmental impacts in the supply chain and actions taken	P81-P82			
Employment					
GRI 3: Material Topics 2021	3-3 Management of material topics	P84			
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	P85			
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	P87-P88			
	401-3 Parental leave	P87			
Occupational Health and Safety					
GRI 3: Material Topics 2021	3-3 Management of material topics	P94			
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	P94			
	403-2 Hazard identification, risk assessment, and incident investigation	P94			
	403-3 Occupational health services	P94			
	403-4 Worker participation, consultation, and communication on occupational health and safety	P97			
	403-5 Worker training on occupational health and safety	P98			
	403-6 Promotion of worker health	P94			
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	P94-P97			
	403-8 Workers covered by an occupational health and safety management system	P94			
	403-9 Work-related injuries	P96			
	403-10 Work-related ill health	P94			

GRI standards	Disclosure	Page	Explanation of omission		
			Requirements for omission	Reasons for omission	Explanation
Training and Education					
GRI 3: Material Topics 2021	3-3 Management of material topics	P90			
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	P92			
	404-2 Programs for upgrading employee skills and transition assistance programs	P92			
	404-3 Percentage of employees receiving regular performance and career development reviews	P91			
Diversity and Equal Opportunity					
GRI 3: Material Topics 2021	3-3 Management of material topics	P84			
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	P85			
	405-2 Ratio of basic salary and remuneration of women to men	Omitted	405-2-a;405-2-b	Confidentiality restrictions	This information involves trade secrets and will not be disclosed
Non-discrimination					
GRI 3: Material Topics 2021	3-3 Management of material topics	P81、 P84			
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	P81			
Freedom of Association and Collective Bargaining					
GRI 3: Material Topics 2021	3-3 Management of material topics	P81			
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	P81			
Child Labor					
GRI 3: Material Topics 2021	3-3 Management of material topics	P81、 P84			
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	P81			
Forced or Compulsory Labor					
GRI 3: Material Topics 2021	3-3 Management of material topics	P81、 P84			
GRI 409: Forced or Compulsory Labor 2016	409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	P81			
Forced or Compulsory Labor					
GRI 3: Material Topics 2021	3-3 Management of material topics	P21			
GRI 411: Rights of Indigenous Peoples 2016	411-1 Incidents of violations involving rights of indigenous peoples	P112			
Local Communities					
GRI 3: Material Topics 2021	3-3 Management of material topics	P104-P107			

GRI standards	Disclosure	Page	Explanation of omission		
			Requirements for omission	Reasons for omission	Explanation
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	P104-P107			
	413-2 Operations with significant actual and potential negative impacts on local communities	Omitted	413-2-a	N/A	There are no operational sites producing actual or potentially significant negative impacts on local community
Supplier Social Assessment					
GRI 3: Material Topics 2021	3-3 Management of material topics	P78-P82			
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	P81			
	414-2 Negative social impacts in the supply chain and actions taken	P81-P82			
Customer Health and Safety					
GRI 3: Material Topics 2021	3-3 Management of material topics	P69-P70			
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	P71			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	P71			
Customer privacy					
GRI 3: Material Topics 2021	3-3 Management of material topics	P77			
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	P77			

Indicator Index Table

Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies

S/N	Dimension	Topic	Location
1	Environment	Response to climate change	P38-P47
2		Pollutant emissions	P52-P54
3		Waste disposal	P55
4		Ecosystem and biodiversity conservation	P47
5		Environmental compliance management	P48-P51
6		Energy utilization	P52
7		Water resource utilization	P52
8		Circular economy	P56
9	Society	Rural revitalization	P104-P105
10		Social contribution	P105-P107
11		Innovation-driven development	P58-P66
12		Technology ethics	N/A
13		Supply chain security	P78-P82
14		Equal treatment of SMEs	The corporate business development has not involved this issue, so it will not be disclosed
15		Safety and quality of products and services	P69-P76
16		Data security and customer privacy protection	P67-P68, P77
17	Sustainable development governance	Employee	P84-P98
18		Due diligence	The due diligence content involves a large amount of the corporate trade secrets, so content in P21 will not be disclosed for the time being
19		Stakeholder communication	P21
20		Anti-commercial bribery	P34-P35
21		Anti-unfair competition	P36

The Ten Principles of the UN Global Compact

Dimension	Principles	Location
Human Rights	Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights; and	P80-P81、 P84
	Principle 2: Make sure that they are not complicit in human rights abuses.	P81、 P84
Labour	Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;	P81、 P86
	Principle 4: The elimination of all forms of forced and compulsory labour;	P80-P81、 P84
	Principle 5: The effective abolition of child labour; and	P80-P81、 P84
	Principle 6: The elimination of discrimination in respect of employment and occupation.	P80-P81、 P84
Environment	Principle 7: Businesses should support a precautionary approach to environmental challenges;	P38-P47
	Principle 8: Undertake initiatives to promote greater environmental responsibility; and	P43-P47
	Principle 9: Encourage the development and diffusion of environmentally friendly technologies	P56
Anti-Corruption	Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery	P34-P35

Comments and Feedbacks

Dear Readers,

Thank you for reading the 2024 Sustainability Report of Mingyang Smart Energy. We especially need your comments and suggestions on this report to make further improvements.

Address: Mingyang Industrial Park, No.22 Torch Road, Torch High-Tech Industrial Development Zone, Zhongshan City

Tel.: 0760-28138666

Postcode: 528437

Fax: 0760-28138667

E-mail: myse@mywind.com.cn

Choice Question: (please mark "✓" in the corresponding position)

1. Your identity is:

☐ Government
 ☐ Employee
 ☐ Public
 ☐ Investor
 ☐ Customer
 ☐ Partner
 ☐ Academic institution
 ☐ Peer in the industry

2. Your impression of this report:

☐ Excellent
 ☐ Good
 ☐ Average
 ☐ Poor
 ☐ Very poor

3. The quality of sustainability information disclosed in this report is:

☐ Very high
 ☐ High
 ☐ Average
 ☐ Low
 ☐ Very low

4. This report structure is:

☐ Very reasonable
 ☐ Reasonable
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 ☐ Very poor

5. The layout design and presentation form of this report are:

☐ Excellent
 ☐ Good
 ☐ Average
 ☐ Poor
 ☐ Very poor

Open Question:

What other information that you need to know is not presented in this report?

What suggestions do you have for the future ESG reports?

What other information you want to learn from our sustainability report?

