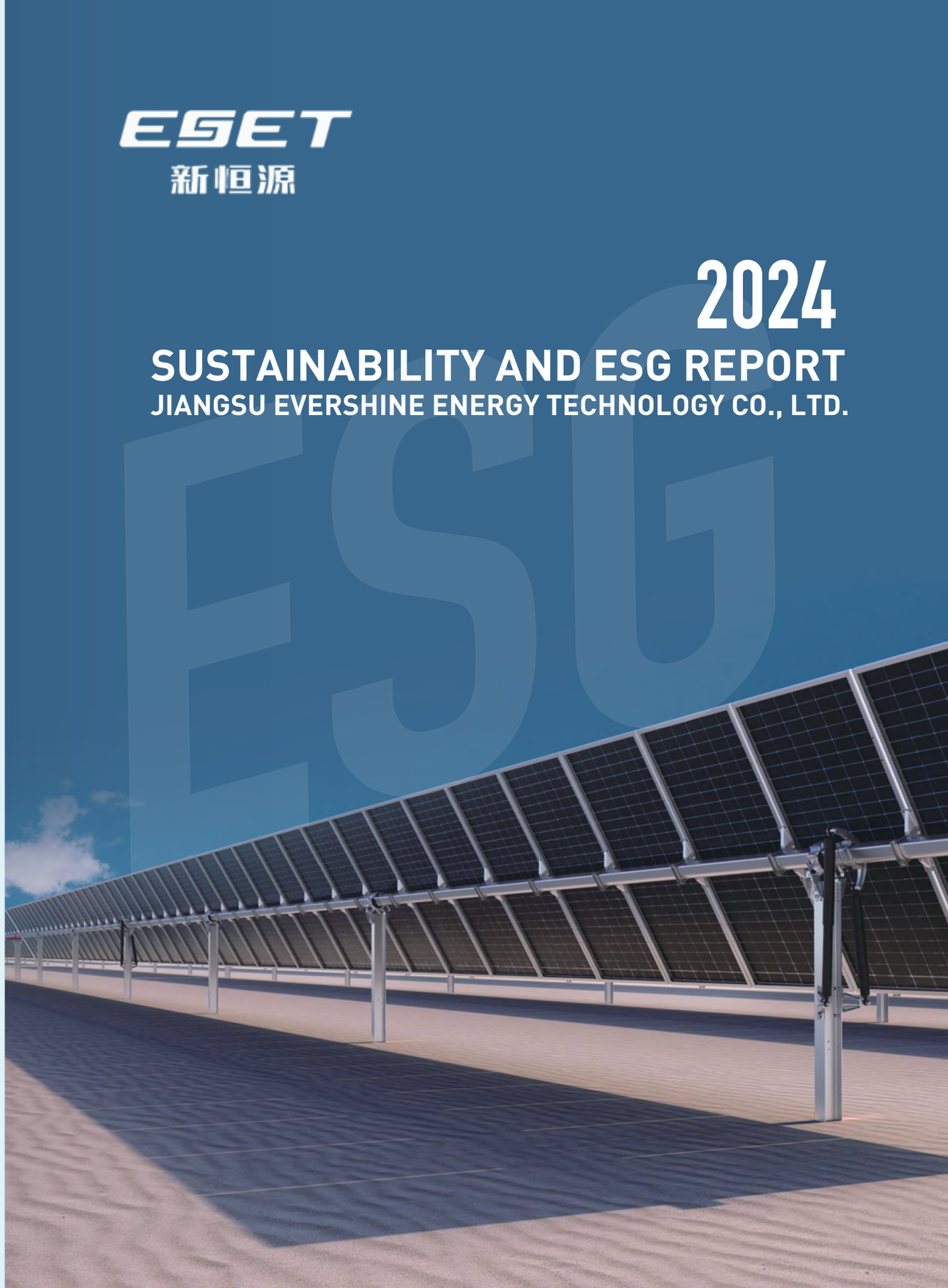
ESET
新恒源

2024
SUSTAINABILITY AND ESG REPORT
JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD.



2024 SUSTAINABILITY AND ESG REPORT

JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD.

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2024

SUSTAINABILITY AND ESG REPORT

JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD.

ABOUT THIS REPORT

Time Scope

This is an annual report covering the time period from January 1, 2024 to December 31, 2024 (hereinafter uniformly referred to as the "Reporting Period"). To ensure the report is more comprehensive and detailed, some data will go beyond the established time scope, and the specific dates related to such data have been clearly marked.

Organizational Scope

This report covers JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD., which is consistent with the disclosure scope of EVERSHINE's 2024 annual financial report. For the convenience of expression, "EVERSHINE", "the Company" and "we" in the report all refer to "JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD.".

Release Status

This report covers JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD., which is consistent with the disclosure scope of EVERSHINE's 2024 annual financial report. For the convenience of expression, "EVERSHINE", "the Company" and "we" in the report all refer to "JIANGSU EVERSHINE ENERGY TECHNOLOGY CO., LTD.".

Reference Standards

Sustainability Reporting Standards of the Global Reporting Initiative (GRI)
United Nations Sustainable Development Goals (SDGs)
Ten Principles of the United Nations Global Compact (UNGC)
International Financial Reporting Standards (IFRS) S1 and S2 of the International Sustainability Standards Board (ISSB)

Assurance of Report Reliability

The Company solemnly promises that the content of this report is true and reliable, without any false records or misleading statements. The data in the report is mainly derived from the original records of the Company's operations and publicly disclosed official documents such as quarterly reports and annual reports, which are formed through systematic compilation and statistics. Unless otherwise specified, all amounts disclosed in the report are measured in Renminbi (RMB).

Report Statement

The financial data in this report is prepared in strict accordance with the national Accounting Standards for Business Enterprises and relevant accounting system regulations, and the audit work is conducted in accordance with the China Internal Audit Standards to accurately present the Company's financial position and operating results. The report has undergone strict internal review by the Company and has been guided and evaluated by a professional report assurance institution to ensure the content is true, correct, accurate and comprehensive. This report is released to deepen communication and interaction with various stakeholders and enhance mutual understanding and

Method of Obtaining the Report

This report supports online reading. You can log on to the Company's official website www.jseset.com to obtain the electronic version of the report.

CONTENT

GENERAL MANAGER SPEECH

2024 is a crucial year for the in-depth advancement of global energy transition, and it is also the fourth year that ESET has firmly fulfilled its mission of "supporting the sustainable development of the global new energy industry". As a start-up company, facing the dual opportunities of the new pattern of climate governance and the accelerated industrial transformation, we have always adhered to the core values of "Diligence · Openness · Courage · Responsibility", deeply integrated the concept of sustainable development into the core of the company's strategy, adhered to long-termism, continued to make efforts in the main business field of photovoltaic (PV) brackets, and are determined to become a leader in comprehensive PV bracket solutions in the energy sector.

As a comprehensive solution provider in the global energy sector, after more than three years of efforts, ESET has provided a total of over 40 GW of PV bracket products for more than 500 PV power plant projects around the world, reducing carbon emissions by more than 40 million tons, fully fulfilling our "green mission".

ESET is well aware that our products and services are important cornerstones supporting the construction of new energy power infrastructure, urban development, and even the people's happy and stable life. The responsibility of this "support" is not only reflected in providing safe, reliable and efficient products, but also extends to how we operate responsibly, how we live in harmony with the environment, how we empower employees and communities, and how we build a transparent and honest governance system. This is precisely the core value shaping of ESG essentials for enterprises.

In the past year, our core practices and progress in the ESG field include:

Environmental Responsibility

Green Manufacturing: We continuously optimize production processes, increase investment in energy-saving equipment, and greatly improve material utilization. We continue to promote new materials such as zinc-aluminum-magnesium, weathering steel, and high-strength steel, which effectively reduce energy consumption and carbon emissions per unit product. We have invested in distributed photovoltaic power generation in the factory area, making green electricity the main energy consumption for manufacturing.

Product Lifecycle Management: ESET not only provides green, environmentally friendly, high weather resistance and high reliability PV bracket system solutions, but also implements the concept of sustainable development in every stage of the product lifecycle, from R&D, production and manufacturing to product installation. The modular bracket design applied by ESET doubles the installation efficiency, which not only effectively reduces the construction cost for global customers, but also greatly reduces the environmental impact of the product throughout its lifecycle.

Supply Chain Collaboration: ESET has always embedded the essentials of sustainable development in the company's strategy and operations, deepened cooperation with value chain partners, led the green transformation of the industry, strengthened responsible supply chain management, and taken the initiative to act as an advocate for the coordination and optimization of industry standards. It has incorporated environmental performance into the supplier evaluation system, jointly formulated carbon reduction targets with core suppliers, actively promoted the coordinated development of the industrial chain, and contributed to the achievement of global carbon neutrality goals.

Social Responsibility

Employee Care and Development: "Employees are our most precious asset". We always put the health, safety and development of employees first. ESET continues to increase investment to improve the working environment, strengthen safety production management to achieve the goal of "zero" major accidents, provide diversified training and career development channels, pay attention to employees' mental health, and create an equal and inclusive working atmosphere.

Product Safety and Quality: Product safety and quality are our lifeline. We strictly implement the ISO quality management system, build the highest safety standards in the industry, and ensure that products meet safety standards by strengthening R&D testing and improving quality control processes. We minimize potential risks in all links from R&D to delivery, bringing customers assured, reliable and stable products.

Community Feedback and Contribution: We actively integrate into and give back to the community, donating libraries and computers to many primary schools and medical equipment to the medical system. We organize employee volunteer activities and provide materials and services to Sichuan and other places in case of major disasters. We believe that the success of an enterprise is inseparable from the prosperity of the community.

Corporate Governance

Integrity in Operation and Compliance: We adhere to the highest standards of business ethics and legal and regulatory requirements, continuously improve the corporate governance structure, strengthen the risk management and internal control system, continuously promote the construction of integrity culture in the company, and actively promote the company's integrity culture to our value chain partners.

Transparent Communication: We attach great importance to communication with various stakeholders and maintain information transparency through various forms such as

regular report release and communication meetings. This ESG report itself is an important manifestation of our open communication.

Technology Innovation Driven: We recognize that technological innovation is a key engine for achieving sustainable development. ESET focuses on improving product efficiency and deepening low-carbon practices. Relying on a professional R&D team of more than 100 people, through continuous technological innovation, the company has successfully developed and mass-deployed innovative modular bracket products, which double the installation efficiency and effectively reduce the construction cost for global customers; 9 intelligent digital environmental protection hot-dip galvanizing production lines put into operation have strong customization capabilities, fully meeting the full-scenario needs from 5 meters to 15.2 meters. The project cases continuously delivered by ESET have brought green innovation from the production line to a broad world, making it a co-creator of global energy value.

Looking to the Future: Deepen Integration for Stable and Long-term Development

ESG is not a temporary trend, but an inevitable choice and core driving force for the long-term sustainable development of enterprises. Facing the future, ESET will continue to:

Integrate ESG into the company's strategy at a deeper level: Ensure that ESG goals are highly aligned with business development goals and become an important consideration for decision-making.

Set more ambitious goals: Set clear and measurable medium- and long-term goals in the field of new energy power, and formulate detailed action roadmaps.

Strengthen risk management and opportunity capture: Actively identify and manage ESG-related risks such as climate change, while keenly capturing new market opportunities brought by sustainable development.

Deepen stakeholder cooperation: We look forward to working more closely with shareholders, customers, suppliers, employees, communities, governments and industry organizations to jointly address challenges and create shared value.

"Lighting the New Era of Zero Carbon with the Light of Wisdom" – this is not only the mission of our products, but also the eternal pursuit of ESET as a green and low-carbon enterprise. We will take this report as a new starting point, and with greater determination, stronger efforts and more practical actions, forge ahead on the road of sustainable development, strive to become a responsible, committed and trustworthy industry model, and contribute to building a safer, greener and more harmonious society!

Finally, we sincerely thank all friends who care about and support the development of ESET! Thank every employee for their hard work and wisdom contribution! We look forward to continuing to work hand in hand with you to create a sustainable and bright future!

Sincerely

Salute

Jiangsu EverShine Energy Technology Co., Ltd.
General Manager July 2025

COMPANY PROFILE

Founded in 2021 and located in Xuzhou, Jiangsu Province, Jiangsu EverShine Energy Technology Co., Ltd. is a comprehensive solution provider in the global energy sector. Its core businesses cover fields such as photovoltaic (PV) power generation, lithium-ion energy storage, and PV-storage EPC. The PV power generation segment focuses on the R&D, production and sales of PV trackers, flexible PV bracket systems, fixed brackets and BIPV systems; the lithium-ion energy storage segment focuses on the R&D, production and sales of industrial and commercial energy storage cabinets and energy storage containers; the PV-storage EPC segment deeply engages in distributed new energy, and undertakes general project contracting integrating professional contracting, engineering design, material procurement and investment operation.

Financial Performance	2023: 1.8 billion yuan，2024: 2.52 billion yuan，Growth rate: 40% ↗
Total Number of Regular Employees in Parent Company	300 people, including 10 foreign nationals
Number of Senior Engineers	twelve people
Ethnic Minorities	zero people
Employees with Disabilities	zero people
Senior Management	fifteen people
Female Senior Management	five people

List of Patents of ESET

No.	Specific Content	Quantity
1	Invention Patent	6
2	Utility Model Patent	50
3	Design Patent	5
4	Software Copyright	20
5	Registered Trademark	5

List of Standards Participated in by ESET

No.	Standard Name	Standard Type	Participation type
1	General Technical Requirements for Solar Photovoltaic System Supports for Buildings	Industry Standard	Participating Unit
2	Design Requirements for Flexible Photovoltaic Supports	Industry Standard	Participating Unit
3	Intelligent Photovoltaic Tracking Supports	Group Standard	Deputy Drafting Unit
4	Continuous Hot-Dip Zinc-Aluminum-Magnesium Alloy Coated Steel Plates and Strips for Photovoltaic Supports	Industry Standard	Drafting Unit
5	Design Code for Flexible Support Photovoltaic Power Generation Systems	Industry Standard	Participating Unit

CORPORATE CULTURE

Vision	Global provider of integrated solutions for the energy sector
Mission	Provide more efficient, reliable and economical products and services to help the sustainable development of the global energy industry
Value	Earnest, Openness, Courage, Responsibility

COMPANY HONORS

No.	Level	Affiliated Unit	Project Name
1	National Level	/	High-Tech Enterprise
2	Provincial Level	Jiangsu Provincial Department of Science and Technology	Innovative Small and Medium-Sized Enterprises of Jiangsu Province
3	Provincial Level	Industry and Information Technology Department of Jiangsu	Three-Star Cloud Adoption
4	Provincial Level	Private Science and Technology Enterprise Association	Private Science and Technology Enterprises of Jiangsu Province
5	Municipal Level	Xuzhou Municipal Bureau of Industry and Information Technology	Municipal-Level Enterprise Technology Center
6	Municipal Level	Xuzhou Development and Reform Commission	Municipal Engineering Research Center
7	Municipal Level	Xuzhou Science and Technology Bureau	Engineering Technology Research Center

ESET received honors

No.	Standard Name	Standard Type
1	Megawatt-Class Emerald Award	Hosted by SNEC
2	Preferred Member Unit in the PV Bracket Industry	Brand Power of China
3	Top 10 Brands of PV Brackets	China Brand Credit Center
4	2023 Annual Emerging Enterprise	International Energy Network, Guoneng Energy Research Institute
5	Terawatt-Class Diamond Award	Hosted by SNEC
6	2024 "Polaris Cup" Influential PV Bracket Brand	Polaris Power Network
7	2024 "Polaris Cup" Influential PV Development Investor/EPC Brand	Polaris Power Network
8	2024 National "Quality Month" Quality Integrity Initiative Enterprise	China Association for Quality Inspection
9	Certificate of Survey Summary of "National Quality Inspection Stable and Qualified Products" and Quality Reputation Commitment Announcement	China Association for Quality Inspection
10	2024 Guoneng Network Top 10 Excellent PV Brands Award	International Energy Network, Guoneng Energy Research Institute
11	CREC New Energy Emerging Enterprise Award	China Council for the Promotion of International Trade
12	"Solar Energy Cup" 2024 Most Influential PV Bracket Enterprise	Solargiga PV Network
13	"Solar Energy Cup" 2024 Most Influential PV EPC Enterprise	Solargiga PV Network
14	315 National Enterprise Committed to Product and Service Quality Integrity	CAQI
15	315 National Leading Brand for Product and Service Quality Integrity	CAQI
16	315 National Quality Leading Enterprise in the PV Bracket Industry	CAQI
17	315 National Quality Leading Brand in the PV Bracket Industry	CAQI
18	2024 Excellent PV Bracket System Enterprise	Organizing Committee of 2024 China Renewable Energy "Top 100 PV Enterprises" Selection
19	Member of China Photovoltaic Industry Association	China Photovoltaic Industry Association
20	Terawatt-Class Diamond Award	Hosted by SNEC
21	Green Energy Star - Innovation and Demonstration Application of Cutting-Edge New Energy Technologies	China Energy Industry Development Network
22	APVIA Industry Contribution Award	APVIA
23	PVBL2025 Outstanding Service Enterprise in the PV & Energy Storage Industry	Century New Energy Network

SUSTAINABILITY MANAGEMENT

In 2024, Jiangsu EverShine Energy Technology Co., Ltd. continued to advance sustainability management. Through technological innovation and green production practices, the company significantly improved the energy efficiency and environmental friendliness of its PV bracket systems. Adopting three core technologies—"Direct-Drive High-Torque Motor Topology for Solar Tracking Systems", "Optimization of Motor Structural Parameters Based on Operating Conditions of Solar Tracking Systems", and "New Cooling Structure Design for Drive Motors of Solar Tracking Systems"—the company increased the transmission efficiency of PV tracking systems from 80% to 85%, raised the torque density from 20Nm/L to 50Nm/L, and enhanced the system's overload capacity. In the "Agriculture-PV Complementary" project in Zhaoyuan City, Shandong Province, Evershine applied fixed adjustable bracket technology to realize the coordinated development of photovoltaic power generation and agricultural cultivation, maximizing land use efficiency and achieving a win-win situation for both ecological and economic benefits.

In addition, the company has adopted an integrated whole-industry-chain development model, integrating raw material supply, processing, galvanizing, and distribution links. This model reduces manual intervention, ensures safe and pollution-free production, and achieves an annual galvanizing capacity of 600,000 tons. Evershine has also increased R&D investment: a team of over 60 doctors and masters has developed a new generation of full-domain self-locking tracking brackets, further improving the stability and power generation efficiency of PV systems. In terms of brand building, the company was selected as a member unit of the "Brand Power of China Preferred Project" and obtained ISO 9001 Quality Management System certification, strengthening product quality and market competitiveness. In 2024, Evershine's cumulative global shipment volume of PV brackets reached 8.9GW, with business covering more than 30 countries and regions. It also won two awards—the "Solar Energy Cup" Most Influential PV Bracket Enterprise and Most Influential PV EPC Enterprise—further consolidating its leading position in the new energy industry.

Shouldering the mission of transforming into a green and low-carbon enterprise, Evershine has provided a total of over 30GW of PV bracket products for more than 400 PV power plant projects worldwide, reducing carbon emissions by over 30 million tons and fulfilling its "Green Mission". Domestically, it has become an important partner of large-scale power investors such as China Huaneng Group and State Power Investment Corporation; overseas, it has grown into a core supplier for global energy giants including ACWA and Masdar.

SUSTAINABILITY STRATEGIC GOALS AND ACTIONS

Technological Innovation Drives Energy Efficiency Improvement

Optimization of PV Tracking Systems: By leveraging three core technologies—"Direct-Drive High-Torque Motor Topology for Solar Tracking Systems", "Optimization of Motor Structural Parameters", and "New Cooling Structure Design"—ESET has increased the transmission efficiency of PV tracking systems from 80% to 85%, raised the torque density from 20Nm/L to 50Nm/L, while enhancing the system's overload capacity and reducing energy consumption.

New-Generation Self-Locking Tracking Brackets: Adopting a diamond-shaped locking main beam design combined with an optimized structure for bending and torsion resistance, these brackets significantly improve stability and power generation efficiency, reduce material usage, and lower costs.

Flexible Bracket Technology: Featuring a prestressed steel strand structure, this technology saves 30%~40% of steel compared to traditional rigid brackets. It is suitable for complex scenarios such as mountainous areas and "fishery-PV complementary" projects, improving land utilization efficiency.

Green Manufacturing and Whole-Industry-Chain Layout

Environmentally Friendly Digital Galvanizing Production Lines: The company has 9 modern galvanizing production lines with an annual galvanizing capacity of 600,000 tons. It adopts zinc-aluminum-magnesium anti-corrosion technology to reduce pollution and extend product service life.

Whole-Industry-Chain Model: By integrating raw material processing, galvanizing, and supply links, the company reduces carbon emissions from intermediate links and ensures efficient delivery. It also expands overseas markets, with products sold to more than 30 countries and regions.

Low-Carbon Production: Energy consumption is reduced through automated production lines, such as laser cutting and cold bending equipment, which minimizes manual intervention and resource waste.

Market Expansion and Clean Energy Application

PV-Storage Integrated Solutions: Combining PV and energy storage technologies, the company provides EPC general contracting services to promote distributed energy projects. For example, the Beijing Yufa Smart Energy Rural Revitalization Project generates 8.11 million kWh of electricity annually and reduces CO_2 emissions by 6,000 tons.

International Layout: Products are sold to Southeast Asia, the Middle East, Europe, and other regions. The company collaborates with the "Five Major and Six Minor" state-owned central enterprises to contribute to the global energy structure transformation.

SUSTAINABILITY GOVERNANCE

By establishing a three-level governance system of "Strategic Execution Collaboration", Jiangsu EverShine Energy Technology Co., Ltd. systematically promotes the professional upgrading of sustainability management. The company embeds sustainability indicators into business units such as product R&D and supply chain management; it also deploys a digital management platform to achieve real-time end-to-end monitoring of key data including production energy consumption and supplier certification, thereby realizing in-depth synergy between corporate governance efficiency and the industry's low-carbon transformation.

Sustainability Governance Structure

To align with the company's strategic and sustainability needs and enhance its sustainability governance capabilities, Jiangsu EverShine Energy Technology Co., Ltd. has established a three-level sustainability governance structure covering the decision-making level, management level, and execution level. In addition, we continuously optimize the team structure and strengthen professional capacity building.

Decision-Making Level: Board of Directors and Its Subcommittees

Core Responsibilities: Undertake the top leadership and supervision responsibilities for sustainability work. Responsible for integrating sustainability into the company's long-term strategy and defining the vision, core principles, and key directions.

Key Work:

Review and approve the company's overall sustainability strategy, major policies, and target system (including ESG, climate-related targets, etc.).

Oversee the management of risks and opportunities related to the company's sustainability.Review the company's sustainability performance reports (such as ESG reports, TCFD reports, etc.).

Ensure the effective operation of the sustainability governance structure.

Guide the management level in advancing sustainability work.

Management Level: Sustainability Working Group

Core Responsibilities: Undertake the strategic arrangements of the Board of Directors, be responsible for formulating specific sustainability implementation strategies, target decomposition, and action plans, coordinate cross-departmental resources in a unified manner, and supervise the implementation progress.

Key Work:

Formulate specific annual sustainability targets, implementation paths, and key performance indicators (KPIs) based on the strategic direction of the Board of Directors.Review and approve important sustainability projects, investments, and action plans.Regularly (e.g., quarterly) review the progress of sustainability targets and performance data of various departments/business units.Coordinate and resolve issues in cross-departmental cooperation and promote resource integration.Report work progress, challenges, and suggestions to the Board of Directors and its subcommittees.Manage internal and external communication and disclosure related to sustainability.

Execution Level: Functional Departments and Cross-Departmental Linkage Mechanism

Cross-Departmental Working Groups/Liaison Network:

Designate clear sustainability liaisons or working groups in major functional departments (such as Operations, Production, R&D, Procurement, Sales, Marketing, Human Resources, Finance, IT, Public Relations, etc.) and business units/production bases. These personnel/groups are responsible for promoting the implementation of relevant initiatives within their respective departments/units.

Leading Departments:

Interpret the management's strategies and targets, and decompose them to formulate specific implementation plans.

Establish and maintain the ESG/sustainability data collection, accounting, and reporting system.

Organize the preparation of annual sustainability reports and other relevant disclosure documents.

Provide professional training, tools, and best practice guidance related to sustainability.

Coordinate cross-departmental working groups/liaisons, resolve implementation issues, and promote experience sharing.

The Professional Development of the Board of Directors

Members of the Board of Directors of Jiangsu EverShine Energy Technology Co., Ltd. continuously enhance their professionalism and participation in the field of sustainable development. They possess professional capabilities in addressing complex ESG issues, ensuring that the company can take proactive measures when facing the challenges of global climate change.

Salary Linkage

In 2024, we continued to strengthen the participation and understanding of ESG issues among members of the Board of Directors and senior management. We took sustainable development indicators as one of the core contents of the key performance indicator (KPI) assessment for senior executives and linked them to their salary and incentive plans. This not only demonstrates our determination to strengthen sustainable development management, but also ensures the effective implementation of ESG and sustainable development strategic goals.

Stakeholder Communication

Jiangsu EverShine Energy Technology Co., Ltd. is well aware that the opinions of stakeholders have an important impact on ESG work. It proactively listens to the demands and voices of various stakeholders, establishes smooth communication channels through various forms, and responds positively to the concerns and expectations of stakeholders with practical actions.

Customer Communication and Demand Response 1

- ***Customized solutions:*** Jiangsu EverShine Energy Technology Co., Ltd. provides customized photovoltaic bracket solutions according to the needs of different customers (such as terrain adaptability, wind resistance performance, etc.), such as reinforced bracket and flexible bracket systems designed for plateau and mountainous areas.
- ***Technical transparency:*** The company explains the technical highlights of products in detail through exhibitions (such as SNEC) and exclusive interviews, such as the multi-point synchronous drive design of the "Qiyue Tracking Bracket", to enhance customer trust.
- ***After-sales service guarantee:*** A sound after-sales service system has been established to solve customer problems in a timely manner, ensuring product reliability and long-term operational stability.

Industry Cooperation and Standard Setting 2

- ***Participation in authoritative certification:*** The company actively obtains international certifications such as UL 3703 tracking bracket mechanical and electrical dual certification and CPP wind tunnel test to enhance industry recognition.
- ***Technical forum sharing:*** It delivers speeches at global photovoltaic technology conferences such as SNEC. For example, Dr. Wang Yongan, Chief Engineer, shares bracket system solutions to promote industry technical exchanges.

Supply Chain and Partner Collaboration 3

- ***Whole industry chain integration:*** Through its own galvanizing production lines and raw material processing, the company ensures the stability of the supply chain and reduces the delivery risks of partners at the same time.
- ***EPC project collaboration:*** It conducts in-depth cooperation with electric power chambers of commerce and distributed photovoltaic project parties, such as the Hunan Panda 20.71MWp project, demonstrating its integrated service capabilities.

Social and Government Relations 4

- ***Ecological benefit promotion:*** The company highlights the dual benefits of projects such as "agriculture-photovoltaics complementarity" (e.g., the Zhaoyuan Fushan Town Project) to strengthen the corporate social responsibility image.
- ***Policy response:*** It closely follows the "carbon peaking and carbon neutrality" goals and supports the national green energy strategy through technological innovation (such as BIPV and energy storage systems).

Brand and Public Communication 5

- ***Awards and media exposure:*** Relying on honors such as the "Terawatt-level Diamond Award" and the "Most Influential Photovoltaic Bracket Enterprise Award", the company enhances brand credibility and disseminates corporate developments through media such as Xuzhou Daily.
- ***Global communication:*** It expands its international market share and influence through the construction of overseas factories (such as in the Middle East) and international exhibitions.

Material Topics Analysis

To more effectively respond to the expectations and demands of various stakeholders and establish a systematic management path, in 2024, Jiangsu EverShine Energy Technology Co., Ltd. carried out the identification and analysis of ESG material topics through policy analysis, extensive surveys of internal and external stakeholders, and other methods, laying a reference foundation for the company to advance ESG work in an orderly manner and disclose relevant information.

2024 Material Topics Analysis Process

Jiangsu EverShine Energy Technology Co., Ltd. sorted out and identified material topics related to sustainable development by referring to international authoritative reporting guidelines issued by institutions such as the Global Reporting Initiative (GRI) and the International Sustainability Standards Board (ISSB), and combining the latest domestic and foreign policies and industry standards.

The company communicates with key internal and external stakeholder groups through questionnaires, interviews, and other forms to fully understand their expectations and opinions on ESET's sustainable development-related work.

Based on multiple factors such as questionnaire surveys, interview communications, and the company's development strategy, the importance of 28 material topics was evaluated, and the material topics matrix for this year was drawn accordingly.

After the confirmed list of material topics and analysis results were reviewed and approved by the management, the final 2024 Material Topics Matrix of Jiangsu EverShine Energy Technology Co., Ltd. was formed.

Assessment and Management of Material Topics

In 2024, in accordance with relevant domestic and international standards for sustainable development, the company actively carried out the "dual materiality identification and analysis" of sustainable development topics. Closely integrating the characteristics of its industry and the actual situation of its business operations, the company conducted an in-depth analysis of the short-term, medium-term, and long-term impacts of topics on the company's financial status, while considering the actual and potential effects of the company's performance in various topics on the economy, society, and environment. The specific analysis process is as follows:

Insights into Company Activities & Business Relationship Background
1

- Conduct an in-depth analysis of the company's internal activities and business relationships, focusing on the sustainable development-related impacts in the upstream and downstream of the value chain.
- Closely track the trends of macro policies and industrial policies in 2024, accurately interpret regulatory requirements, grasp industry hot trends, and identify potential impacts that may affect the company.
- Comprehensively sort out key affected stakeholders, covering internal and external parties, and conduct systematic classification.

Develop a List of Topics
2

- Based on the 21 topics specified in the Shanghai Stock Exchange's Guidelines for Self-Regulatory Supervision of Listed Companies on the Shanghai Stock Exchange No. 4 - Preparation of Sustainable Development Reports, the company comprehensively considered regulatory policies, rule changes, industry standard updates and development trends, conducted peer analysis, supplemented specific topics that fit the company's characteristics, and finally formed a list containing 25 relevant topics.

Conduct Impact Materiality Assessment
3

- Conduct a preliminary analysis of the impacts related to sustainable topics through interviews and questionnaires.
- Actively communicate with stakeholders, and extensively collect their opinions on the nature of impacts (negative or positive) and the status of impacts (actual or potential).

  Synthesize the opinions of multiple stakeholders and refer to the professional insights of internal and external experts to draw impact materiality assessment conclusions for all topics.

Conduct Financial Materiality Assessment
4

- Conduct a preliminary assessment of the impacts related to sustainable topics through interviews and questionnaires.
- Invite external shareholders, relevant senior executives of the company and department heads to assess the financial materiality of topics from two dimensions - "likelihood of impact occurrence" and "degree of financial impact" - for three time periods: short-term (within 1 year), medium-term (1-5 years), and long-term (more than 5 years).
- Integrate the opinions of external stakeholders, relevant senior executives and department heads, and combine the suggestions of internal and external experts to generate financial materiality assessment results for all topics.

Conduct Review and Confirmation of Topics
5

- Synthesize the company's impact materiality and financial materiality assessment results for all topics, set reasonable materiality threshold standards based on the company's operation and management capabilities, screen out a list of "material" topics, and clarify the scope of material topics.

Establish a Dual Materiality Analysis Matrix to Intuitively Present Assessment Results
6

- After the dual materiality assessment results are reviewed and confirmed by the company's ESG Committee, the high-materiality topics identified in 2024 will be prominently disclosed in the report.

ENVIRONMENT

STRENGTHENING ENVIRONMENTAL MANAGEMENT

In its production, operation and business activities, Jiangsu EverShine Energy Technology Co., Ltd. continuously optimizes environmental management, improves energy and resource utilization efficiency, reduces waste discharge, attaches great importance to the environmental impact of its own operation process, and strives to be a leader in green development.

Environmental Management System


ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

We hereby certify that

Jiangsu Evershine Energy Technology Co., Ltd.

by means of its

Environmental Management System

has been awarded this certificate for compliance with the standard

ISO 14001:2015

中国质量认证中心

CHINA QUALITY CERTIFICATION CENTRE


ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Jiangsu Evershine Energy Technology Co., Ltd.

(This appendix shall not be used as a stand alone document.)

中国质量认证中心

CHINA QUALITY CERTIFICATION CENTRE

Jiangsu EverShine Energy Technology Co., Ltd. strictly complies with industry standards, national and local laws and regulations. Under the guidance of the Environmental Protection Law of the People's Republic of China, the Environmental Impact Assessment Law of the People's Republic of China, the Measures for the Administration of Enterprise Environmental Information Disclosure in Accordance with Law, the Air Pollution Prevention and Control Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, the Soil Pollution Prevention and Control Law of the People's Republic of China, the Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes, the Cleaner Production Promotion Law of the People's Republic of China, the Energy Conservation Law of the People's Republic of China, and relevant laws and regulations in the regions where overseas production bases are located, the company further improves its energy and resource utilization, continuously refines the environmental management system, formulates a number of internal management policies, develops cleaner production, promotes the establishment of green factories, and advances its green development.

During the reporting period, Jiangsu EverShine Energy Technology Co., Ltd. has obtained ISO 14001 Environmental Management System Certification.

In addition, in accordance with international standards such as ISO 14001, the company has formulated policy documents including the Environmental, Occupational Health and Safety Management Manual, the Environmental Protection Responsibility System, and the Occupational Health and Safety and Environmental Policies, Objectives, Targets and Management Plans that align with the company's sustainable development goals. These documents clarify the environmental management structure and responsibilities, and establish a systematic environmental management system. Meanwhile, all production bases actively improve environmental emergency response plans, and regularly conduct environmental emergency management training and drills to prevent and minimize the potential adverse impacts of environmental accidents to the greatest extent.

Environmental Management Process

Define Quantitative Environmental Objectives 1	Determine environmental protection objectives and quantifiable indicators for each department, and engage all employees in environmental protection efforts.
Develop Environmental Management Plans 2	Based on the established environmental objectives and indicators, each production base formulates clear environmental objective management plans that suit its own characteristics in accordance with relevant national and local laws, regulations and other provisions.
Compliant Disposal and Green Production 3	Conduct compliant disposal of waste gas and solid waste generated during production, establish and improve various environmental management records, and ensure the normal operation of environmental protection facilities.
Conduct Daily Environmental Monitoring 4	This helps track the operation of environmental protection work and the environmental management system, identify loopholes in environmental protection and environmental management, and take immediate remedial measures to ensure that wastewater, waste gas and noise meet emission standards.

Jiangsu EverShine Energy Technology Co., Ltd. continuously consolidates the foundation in the construction of environmental protection systems and the cultivation of professional talents. It has built an ecological supervision system covering the entire process and established a regular reporting mechanism. In terms of talent echelon development, the company attaches great importance to the professionalization of the environmental management team and implements a special talent empowerment program. For employees who obtain professional qualifications such as National Certified Safety Engineer and Environmental Management System Internal Auditor, the company has established incentive mechanisms including full reimbursement of exam fees, matching of special training resources, and performance rewards after obtaining qualifications, which effectively stimulate employees' enthusiasm for participating in ecological environment governance capability certification.

In 2024, the company's environmental governance work was implemented in an orderly manner. Throughout the year, it maintained a record of zero environmental compliance accidents and zero environmental administrative penalties.

Energy Management

ESET attaches great importance to energy management. The company strictly complies with relevant laws and standards such as the Energy Conservation Law of the People's Republic of China, the Renewable Energy Law of the People's Republic of China, and the Cleaner Production Promotion Law of the People's Republic of China. It has formulated institutional documents including the Resource and Energy Conservation Control Procedure, the Energy Strategy and Energy Waste Control System, and the Measures for the Management of Energy Performance Evaluation, Rewards and Punishments, established and implemented an efficient energy management system. Through industrial internet technology, the company conducts control optimization and intelligent management of energy data throughout the product life cycle.

Deployment of Intelligent Energy Management System

Full-Dimensional Real-Time Monitoring Platform

Build an IoT-based monitoring system to conduct real-time collection and visual display of parameters such as power generation, energy storage efficiency, and equipment temperature of photovoltaic (PV) power plants and energy storage systems.

Integrate meteorological data and electricity market price signals to dynamically adjust equipment operation strategies. For instance, give priority to PV power generation when sunlight is sufficient, and discharge through the energy storage system during peak electricity price periods to achieve optimal economic efficiency.

AI-Driven Equipment Scheduling Optimization

Use machine learning models to predict equipment failure probability and formulate maintenance plans in advance.

Develop intelligent scheduling algorithms to automatically adjust energy storage charging and discharging strategies based on grid load demand, electricity price fluctuations, and weather forecasts.

Construction of Digital Management Platform

Build an integrated energy management platform that integrates functions such as equipment monitoring, energy consumption analysis, and carbon asset management.Support mobile access to enable remote operation, maintenance, and decision-making.

Optimal Integration of Photovoltaic and Energy Storage Systems

Construction of Distributed Energy Microgrids

Combine PV power generation and lithium-ion energy storage systems to build a microgrid featuring "self-consumption of on-site generation and surplus electricity fed into the grid".

Develop PV-energy storage coordinated control strategies to achieve 100% absorption of new energy.

Participation in Virtual Power Plants (VPP)

Aggregate multiple distributed energy projects to form a virtual power plant and participate in electricity market transactions.

Water Resource Management

The growing pressure on water resources is a common global challenge. In its operations, Jiangsu EverShine Energy Technology Co., Ltd. also needs to use water resources to meet needs such as employee daily life and equipment cooling. To address water resource pressure and enhance sustainable water use capacity, we attach great importance to the management and protection of water resources, strictly comply with relevant laws such as the Water Law of the People's Republic of China, and regulate water resource management, wastewater discharge and treatment in internal management documents including the Resource and Energy Conservation Control Procedure, the Environmental Protection Responsibility System, and the Environmental, Occupational Health and Safety Management Manual.

PV Power Generation Sector: Water-Saving Production and Eco-Friendly Power Plant Construction

Water-Saving Transformation in Production Links

Clean process upgrading: In the production of PV brackets, adopt water-free or low-water processes such as dry cutting and laser welding to replace traditional wet processing, reducing water consumption in metal processing.

Circulating water system: For links that must use water, establish a closed-circuit circulating water system, and recover metal ions in wastewater through membrane separation technology to realize reutilization of water resources.

Rainwater replacing tap water: Build rainwater collection systems at production bases, which, after purification, are used for equipment cooling or factory greening to reduce reliance on municipal water supply.

Ecological Design of PV Power Plants

Intelligent cleaning system: Develop AI-based automated cleaning robots, and adopt high-pressure micro-mist technology to replace traditional water flushing for cleaning, reducing water consumption for PV module cleaning.

Eco-integration design: Arrange ecological wetlands or infiltration ditches around power plants, use plants to purify rainwater and recharge groundwater, and provide habitats for wildlife at the same time to enhance the ecological benefits of the project.

Lithium-Ion Energy Storage Sector: Zero Wastewater Discharge and Resource Utilization

Production Wastewater Treatment

Classified treatment technology: For lithium-containing wastewater, nickel-containing wastewater, etc. generated in battery production, adopt chemical precipitation to remove heavy metals and combine with biological methods to degrade organic matter, ensuring wastewater meets discharge standards or is reused.

Advanced membrane treatment: Recover valuable metals such as lithium and cobalt from wastewater through technologies like reverse osmosis and electrodialysis, reducing raw material costs and minimizing pollution.

Cooling System Optimization

Air cooling replacing water cooling: In the design of energy storage containers, give priority to air cooling technology to replace traditional water cooling systems, reducing cooling water consumption at the source.

Waste heat recovery and utilization: For links that must use water, use waste heat to heat domestic water, improving the comprehensive energy utilization efficiency.

PV-Energy Storage EPC Sector: Whole-Life-Cycle Water Resource Management

Soil and Water Conservation During Construction

Temporary measures: Set up sedimentation tanks and cover with dust-proof nets at project construction sites to prevent direct discharge of construction wastewater into surrounding water bodies.

Vegetation restoration: After the completion of construction, use local plants for ecological restoration to enhance the water retention capacity of soil and reduce soil erosion.

Intelligent Monitoring During Operation

IoT monitoring system: Deploy sensors in power plants to monitor water consumption and water quality (such as pH value and heavy metal content) in real time, and optimize water resource scheduling through AI algorithms.

Data transparency: Incorporate water resource management data into ESG reports to improve the transparency of corporate environmental performance and meet the sustainable development requirements of international customers.

Pollutant Emission Management

Pollutant emission management is a key link in green production and environmental management. Jiangsu EverShine Energy Technology Co., Ltd. strictly complies with relevant laws and regulations, formulates corresponding systems, strictly controls the emission of air pollutants, wastewater and waste, and minimizes the potential environmental impact of production and operation links.

Whole-Life-Cycle Pollution Prevention and Control

Design Phase

Green design: In the design of photovoltaic brackets and energy storage systems, recyclable materials are preferred, and the use of hazardous substances is reduced.
Modular design: Improve the detachability of products to facilitate later maintenance and component recycling after decommissioning, and reduce the difficulty of solid waste disposal.

Production Phase

Clean production processes:Optimize the hot-dip galvanizing production line, adopt closed pickling process, and equip with waste gas collection and treatment devices (such as lye spray towers) to reduce the emission of acid mist and heavy metals (zinc, chromium).
Promote low-dust technologies such as laser cutting and robotic welding to replace traditional flame cutting and reduce waste gas generation.
Wastewater treatment: Establish a classified treatment system, and pre-treat heavy metal-containing wastewater (such as galvanizing wastewater) (e.g., chemical precipitation, ion exchange) to ensure compliance with discharge standards or reuse.
Solid waste management: Implement classified storage of hazardous waste and general solid waste, entrust qualified units for disposal, and establish electronic ledgers for traceability.

Construction and Operation & Maintenance Phase

Construction pollution control: During the construction of photovoltaic power plants, wet work is adopted to suppress dust, and construction machinery is equipped with exhaust gas purification devices to reduce waste gas emissions.
Intelligent operation and maintenance: Real-time monitor the operation status of equipment through sensors to prevent sudden pollution incidents such as oil leakage and gas leakage.

Decommissioning Phase

Recycling system: Cooperate with professional institutions to establish recycling channels for photovoltaic modules and energy storage batteries, and adopt physical methods (such as disassembly) or chemical methods (such as hydrometallurgy) to extract valuable materials, reducing resource waste.

Technology Optimization and Innovation

Intelligent Monitoring System

Install online monitoring equipment at key emission points of production workshops and photovoltaic power plants (such as hot-dip galvanizing waste gas outlets), upload pollutant concentrations (such as particulate matter, sulfur dioxide) to the environmental protection platform in real time, and automatically alarm when exceeding standards.
Use big data to analyze emission patterns and optimize production scheduling (e.g., off-peak production of high-pollution processes).

Low-Carbon Technology Replacement

Develop chromium-free passivation technology to replace traditional galvanizing and reduce the use of heavy metals.
Explore the use of photovoltaic power plant cleaning robots to replace manual cleaning, reducing water consumption and wastewater generation.

Institutional Guarantee and Cultural Construction

Internal Management System

Formulate the List of Environmental Factor Identification, List of Important Environmental Factors, Environmental, Occupational Health and Safety Operation Control Procedure, Objective and Target Management Plan Control Procedure, and Hazardous Waste Management Procedure, clarify the environmental protection responsibilities of each department, establish the "one-vote veto system for environmental protection", and link emission compliance rate with performance appraisal.
Regularly conduct environmental protection training (such as hazardous waste disposal operation specifications) and organize emergency drills (such as acid leakage disposal) to enhance employees' environmental protection awareness.

External Compliance and Transparency

Apply for pollutant discharge permits in accordance with the law and disclose emission data as required.
Participate in the carbon trading market, offset carbon emissions by purchasing green electricity and afforestation, and achieve the goal of carbon neutrality.

Biodiversity Conservation

As an industry leader, Jiangsu EverShine Energy Technology Co., Ltd. also pays extensive attention to the protection of the surrounding ecology during its own development. The company strictly complies with relevant laws and regulations such as the Environmental Protection Law of the People's Republic of China and the Environmental Impact Assessment Law of the People's Republic of China. In the internal document Environmental Protection Management Procedure, it stipulates that the negative impact on the ecological environment shall be minimized during project development, construction and production operation, the requirements for biodiversity conservation shall be implemented, and harmonious coexistence with nature shall be achieved.

On the one hand, Jiangsu EverShine Energy Technology Co., Ltd. continuously expands application scenarios, organically combines natural ecological resources with projects, constantly explores innovative models of clean energy solutions and ecological protection, and creates benchmark cases where ecological governance and industrial development complement and integrate with each other. On the other hand, the company actively develops projects such as biodiversity parks.

In 2024, Jiangsu EverShine Energy Technology Co., Ltd. carried out detailed greening design for the production area and roads in the factory. In terms of plant selection in the factory, we adopted the principle of suitable greening and balanced biodiversity conservation, giving priority to planting local nectar sources, flowering and fruiting plants to increase the diversity of nectar-feeding insects and birds; we used plants that are easy to maintain, have strong adsorption capacity and high resistance to build a green and friendly ecological environment in the base.



SUSTAINABLE THROUGHOUT THE ENTIRE LIFECYCLE

As an innovative enterprise deeply engaged in photovoltaic (PV) bracket systems and PV-storage EPC services, ESET has deeply integrated the concept of sustainable development into the entire chain of "raw material acquisition - production - delivery - operation - recycling". Leveraging its own core zinc-aluminum-magnesium production line and vertically integrated EPC capabilities, the company has established a full-lifecycle sustainable management system covering both products and projects. It is committed to reducing environmental footprint, enhancing social value through technological innovation, and driving the green and low-carbon transformation of the photovoltaic industry:

Green Environmental-Friendly Materials

Green Materials and Responsible Procurement Strategy

Low-Carbon Advantages of Materials

New Anti-Corrosion Coating: Through zinc-aluminum-magnesium coating technology, the corrosion resistance of the brackets is 10-20 times that of traditional galvanized coatings, with a service life of more than 30 years. This reduces the frequency of replacement and the total resource consumption throughout the whole life cycle.

Material Optimization: The use of high-strength materials reduces the thickness of the base plate by 20%, and the steel consumption of a single gigawatt project is reduced by approximately 6,000 tons, alleviating the pressure on mineral resources.

Supply Chain Carbon Tracking: Cooperate with upstream steel mills to establish a "green steel" procurement channel. The proportion of recycled steel used reached 6% in 2024, and the target is to increase it to 35% by 2030.

Green Supply Chain Management

Conduct ESG (Environmental, Social and Governance) graded audits on zinc, aluminum and magnesium suppliers, requiring declarations on conflict minerals compliance and disclosure of carbon emission data.

Implement the "300-kilometer radius" localized procurement method, which has reduced carbon emissions from raw material transportation by 28% year-on-year.

Clean Production and Resource Circulation

Environmental Practices in Owned Production Lines

Energy-Saving Processes: The zinc-aluminum-magnesium coating production line adopts high-frequency induction heating technology, with a waste heat recovery rate of over 70% and a unit energy consumption reduction of 30-50%.

Emission Reduction Technologies: The closed-loop circulation system achieves zero discharge of heavy metal wastewater, reducing hazardous waste generation by 60-80%.

Certification Achievements: The production base has obtained ISO 14001 certification. In 2024, photovoltaic power covered 40% of production energy consumption, and its carbon footprint was 40% lower than the industry average.

Waste Resource Utilization

100% of metal scraps are recycled by remelting, and the reuse rate of packaging materials exceeds 85%.

Jointly establish a solid waste recycling alliance for the photovoltaic industry chain with other enterprises to promote industry-level material circulation.

Environmentally Friendly Design

Intelligent Wind Resistance and Environmental Adaptability

Extreme Climate Protection Technology

Develop customized wind resistance solutions based on different terrains, equipped with intelligent strong wind strategies. The brackets have successfully passed the wind tunnel test of 60m/s (Level 17 hurricane).

Strengthen the design of key nodes, increasing the crosswind bearing capacity by 23% and reducing wind damage accidents in desert and gobi projects.

Application Scenarios	Technical Solutions	Sustainable Benefits
Fishery-Solar Complementary Projects	Long-Span Flexible Brackets	Protect water bodies, increasing the survival rate of fish and shrimp by 20%
Agriculture-Solar Complementary Projects	2P Multi-Point Synchronous Brackets	Realize light sharing, boosting crop yield by 15%
PV Carport Projects	Prefabricated Carports	Integrate PV, energy storage and charging (PV-Storage-Charging Integration)

Intelligent Wind Resistance and Environmental Adaptability

Power Station Planning with Ecological Priority

Innovatively apply the "elevated deployment" scheme (clear height ≥ 2.5 meters) to avoid damage to desert ecosystems caused by foundation excavation, while preserving surface runoff and space for vegetation regeneration.

Biodiversity Conservation

In desert and gobi projects, drought-tolerant and sand-fixing plants such as sea buckthorn and caragana are planted under the PV panels to attract insects and birds for habitat. Ecological monitoring shows that species richness has increased by 35%.

Localized Value Creation

Hire local personnel to participate in power station construction and operation, boosting local employment rate with a 100% coverage rate of skills training.

Green Logistics and Packaging

Construction of Green Logistics System

Application of New Energy Transportation Vehicles

Electrified Transportation Fleet: Leveraging its advantages in energy storage technology, the company can realize the second-life utilization of retired power batteries in logistics vehicles, or cooperate with new energy vehicle manufacturers to customize electric transport trucks, so as to reduce carbon emissions in the transportation link.

Hydrogen Energy Heavy-Duty Truck Pilot: In response to the demand for overseas long-distance transportation, the company explores the application of hydrogen fuel cell heavy-duty trucks, and combines them with photovoltaic hydrogen production projects to realize the closed loop of "green electricity - green hydrogen - green logistics".

Innovation in Environmental-Friendly Packaging Materials

Biobased Degradable Packaging

PV Bracket Packaging: Replace traditional plastics with renewable biomass materials such as PLA (Polylactic Acid) or PBAT (Polybutylene Adipate Terephthalate). Design degradable anti-rust films and honeycomb cardboard buffer structures to meet the moisture-proof requirements for ocean shipping.

Energy Storage System Packaging: Develop bamboo fiber-reinforced composite material packaging boxes, which balance load-bearing performance and degradability, and are suitable for cyclic packaging of industrial and commercial energy storage cabinets.

Promotion of Cyclic Packaging Modes

Shared Packaging Pool: For overseas markets such as Southeast Asia and the Middle East, establish regional packaging recycling centers. Customers use standardized foldable packaging boxes after paying a deposit, and the deposit is returned upon recycling of the boxes.

RFID Chip Management: Embed RFID chips in packaging boxes to realize real-time tracking and scheduling of packaging assets worldwide, improving the cyclic utilization rate.

Lightweight and Modular Design

Optimization of Bracket System Packaging: Reduce the packaging volume of bracket components through topology optimization technology, and adopt a modular design to enable a single packaging box to be compatible with products of multiple models, reducing transportation frequency.

100% Electrification Replacement of Corporate Commercial Vehicles: All corporate commercial vehicles have been fully replaced with electric ones.

Recycling of Steel Strapping

Case

The company recycles metal strapping. By establishing a professional recycling network and sorting & processing procedures, it effectively collects, classifies, cleans and processes these steel strappings (once regarded as industrial waste) into high-quality recycled steel raw materials. This not only significantly reduces the solid waste disposal costs and environmental burdens of relevant enterprises, but also realizes the closed-loop utilization of resources, decreases energy consumption and carbon emissions from primary iron ore mining and smelting, and embodies a win-win situation for both economic and environmental benefits.

Product Disassembly and Recycling

Disassembly of PV Bracket Systems and Circular Utilization of Materials

Application of Intelligent Disassembly Technology

Develop an automated disassembly line that integrates laser cutting and robotic arm separation technology to accurately separate aluminum profiles, steel materials, and galvanized layers, reducing manual intervention.

Adopt a chemical cleaning process to replace traditional pickling, and use environmentally friendly water-based cleaning agents to remove anti-corrosion coatings on metal surfaces, thereby recovering high-purity aluminum materials.

Modular Design Optimizes Recycling Efficiency

Introduce detachable structures during the product design phase, such as replacing welding with bolted connections, to reduce disassembly difficulty.

Conduct recycling treatment on zinc dross generated from the hot-dip galvanizing production line, and extract zinc ingots through high-temperature smelting to achieve a closed-loop production.

Echelon Utilization of Batteries in Energy Storage Systems and Metal Recycling

Health Assessment System for Retired Batteries

Build a battery testing platform to screen batteries with a remaining capacity of ≥70% for application scenarios such as energy storage power stations and communication base stations through charge-discharge testing and internal resistance analysis.

Develop a BMS (Battery Management System) data interface to read the historical usage records of batteries and optimize the matching degree of echelon utilization.

Joint Metallurgical Processes Improve Recovery Rate

Adopt the collaborative technology of hydrometallurgy + pyrometallurgy:

Hydrometallurgy: Extract lithium, cobalt, and nickel through hydrochloric acid leaching, with recovery rates reaching over 90%, 98.5%, and 95% respectively;

Pyrometallurgy: Separate aluminum and copper current collectors through high-temperature smelting to reduce impurity content.

Introduce an automated physical disassembly line to separate cathode/anode materials from separators through crushing and sorting, reducing the use of chemical reagents.

Special Recycling Scheme for BIPV System Components

PV Laminate Separation Technology

Use hot knife cutting technology to separate glass from EVA film, and recover high-transmittance glass (transmittance ≥91%). Pickle and purify silicon wafers for reuse in PV module production.

Environmental-Friendly Treatment of Building Material Parts

Extract fluoroplastics from backsheet materials through a pyrolysis process for recycled building materials; adopt anode oxide film removal technology for aluminum alloy frames, achieving a recovery rate of 98%.

ADDRESSING CLIMATE CHANGE

Provide Efficient PV Bracket Solutions to Improve Clean Energy Generation Efficiency

High-altitude and complex terrain adaptation technology: Jiangsu EverShine Energy Technology Co., Ltd. provides photovoltaic brackets for Huaneng Lhasa Zhaxigang Photovoltaic-Energy Storage Power Station (altitude 4528m-4908m), the world's highest-altitude plateau mountain photovoltaic-energy storage power station. The brackets adopt refined design to adapt to strong winds, snowfall and temperature differences in high-altitude areas, ensuring the stable operation of the power generation system.

"Pasture-photovoltaic complementarity" ecological design: The bracket design ensures that the lowest part of photovoltaic modules is more than 1.5 meters above the ground, taking into account the needs of vegetation growth and cattle and sheep grazing, and realizing the efficient utilization of land resources and ecological protection.

Patent technology innovation: In 2025, Jiangsu EverShine Energy Technology Co., Ltd. obtained the patent for "A Photovoltaic Main Beam, Photovoltaic Bracket Component and Photovoltaic System" (CN118611537B). This technology improves the assembly efficiency, stability and scalability of photovoltaic systems, and further reduces the cost of photovoltaic power generation.

Promote multi-scenario application of "photovoltaic +" to boost low-carbon economic development

Agriculture-photovoltaic complementarity project: In the 600MW agriculture-photovoltaic complementarity project in Fushan Town, Zhaoyuan City, Shandong Province, the fixed adjustable bracket technology of Jiangsu EverShine Energy Technology Co., Ltd. enables photovoltaic panels to be intelligently adjusted according to the solar altitude angle, maximizing power generation efficiency without affecting agricultural planting, and realizing the win-win mode of "power generation on the top and planting at the bottom".

Flexible bracket technology: For complex scenarios such as mountainous areas and fishery-photovoltaic complementarity, the flexible brackets of Jiangsu EverShine Energy Technology Co., Ltd. save 30%-40% of steel consumption compared with traditional brackets, reduce carbon emissions, and improve land utilization rate at the same time.

Reduce carbon emissions to support the carbon neutrality goal

The annual power generation of photovoltaic projects participated in by Jiangsu EverShine Energy Technology Co., Ltd. (such as Lhasa Zhaxigang Power Station) exceeds 150 million kWh, which can meet the electricity demand of 50,000 households, reduce carbon dioxide emissions by about 125,500 tons per year, and alleviate the power structure problem of "surplus in summer and shortage in winter" in Tibet.

Its tracking bracket technology (such as "Qiyue Tracking Bracket") improves power generation efficiency through a multi-point synchronous drive system, reduces the life-cycle cost per kWh, and promotes photovoltaic energy to become a more competitive clean energy.

Global layout to promote global energy transition

Products of Jiangsu EverShine Energy Technology Co., Ltd. are sold to Southeast Asia, the Middle East, Africa, Europe, South America and other regions, providing photovoltaic bracket solutions for many countries and regions around the world and helping to reduce dependence on fossil energy.

In 2024, its annual production capacity reached 12GW, with a target delivery value of 1.5 billion yuan, further expanding the market influence of green energy.

Participate in the formulation of industry standards and testing certification

Products of Jiangsu EverShine Energy Technology Co., Ltd. have passed strict tests such as CPP wind tunnel experiment and TUV certification to ensure reliability under extreme climate conditions and reduce energy waste caused by equipment failure.


JIANGSU EVERSHINE TRACKER STUDY | CPP PROJECT 16449

FINAL REPORT

CPP PROJECT 16449
22 MARCH 2022

JIANGSU EVERSHINE TRACKER STUDY
ASSUMED STATIC STRUCTURE

CPP

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LOW-CARBON PHILOSOPHY

As a high-tech enterprise focusing on new energy technology, Jiangsu EverShine Energy Technology Co., Ltd. has adopted a number of measures in terms of low-carbon philosophy, which are mainly reflected in technological innovation, product design, production and operation, and industrial chain collaboration. The specific practices are as follows:

Technological Innovation to Improve Energy Efficiency

Optimization of PV Tracking System: Through three core technologies—"Topology Structure of Direct-Drive High-Torque Motor for Solar Tracking System", "Optimization of Motor Structural Parameters Based on Operating Conditions of Solar Tracking System", and "New Cooling Structure Design of Drive Motor for Solar Tracking System"—the company has increased the transmission efficiency of the PV tracking system from 80% to 85%, and the torque density from 20Nm/L to 50Nm/L. At the same time, it has enhanced the system's overload capacity and reduced energy consumption.

Multi-Point Synchronous Electrical Linkage Control Technology: This technology improves the light-tracking accuracy and synchronization of PV panels, reduces energy loss, lowers the failure rate, and enhances overall power generation efficiency.

Green Product Design

Flexible Bracket System: Compared with traditional rigid brackets, flexible brackets can save 30%-40% of steel consumption, reduce material consumption, and are suitable for complex terrains (such as mountainous areas and fishery-PV complementary projects) to improve land utilization.

BIPV (Building-Integrated Photovoltaics) Products: Adopt roll forming of zinc-aluminum-magnesium plates, featuring strong anti-corrosion performance and a service life of 25 years, which reduces maintenance costs and optimizes the building energy structure.

Low-Carbon Production and Manufacturing

Intelligent Production Lines: The company has 40 CNC profile production lines and 7 automatic hot-dip galvanizing production lines, adopting high-efficiency processes such as laser blanking and cold bending to reduce energy waste in the production process.

Application of Zinc-Aluminum-Magnesium Materials: Bracket products use zinc-aluminum-magnesium coatings, which have better anti-corrosion performance than traditional galvanized steel, extending product service life and reducing resource consumption.

Global Layout to Promote Global Carbon Reduction

The company's products are sold to Southeast Asia, Australia, Japan, South Korea, the Middle East, South America and other regions, helping global PV power plants reduce carbon emissions.

It cooperates with central state-owned enterprises such as the "Five Major and Six Minor Power Groups" and participates in large-scale domestic and international PV projects to promote the replacement of traditional fossil energy with clean energy.

ESET Key Customer List

国家能源集团 CHN ENERGY · 中国华能集团有限公司 CHINA HUANENG GROUP CO.,LTD. · 中国华电集团有限公司 CHINA HUADIAN CORPORATION LTD.
中国大唐集团有限公司 China Datang Corporation Ltd. · 国家电力投资集团有限公司 STATE POWER INVESTMENT CORPORATION LIMITED · 中国长江三峡集团有限公司 China Three Gorges Corporation
中广核 CGN · 中核集团 CNNC · 中国节能 CECEP · 華潤電力 CR POWER
国投电力 SDIC POWER · ACWA POWER · MASDAR

Industrial Chain Collaboration and Policy Response

The company actively participates in the "PV +" industrial upgrading in Xuzhou, forms a low-carbon silicon-based material industrial chain with enterprises such as GCL Technology, promotes the integration of PV and energy storage, and supports the "dual carbon" goals.

It responds to the government's pilot policy of county-wide rooftop distributed PV, provides distributed PV solutions, and promotes the development of regional green energy.

R&D Investment and Low-Carbon Certification

The R&D team accounts for nearly 50% of the total staff, and the company has applied for 35 intellectual property rights (including 2 invention patents). It has also obtained international certifications such as TUV and CPP to ensure its products meet low-carbon standards.

The company has obtained qualifications such as "New Enterprise of International Energy Network" and "Three-Star Cloud-Enabled Enterprise", demonstrating its leading position in the field of green technology.

KEY PERFORMANCE

12 Sessions Conduct Thematic Training on Environmental Compliance and Operational Standards	68 People Participation of Frontline and Management Staff	100% Training Coverage Rate for Key Positions in the Field of Water Resource Conservation	30% R&D proportion
12.89% Water Intensity per Unit Revenue Down Year-on-Year	20000 YUAN For related equipment/facility, technology upgrading, and pollution control	200 Million YUAN Equipment Investment	

ENVIRONMENTAL PERFORMANCE

Indicator		Unit	2024
Greenhouse gas emissions			
Total Amount		tCO_2e	3861
Scope 1		tCO_2e	1604
Scope 2		tCO_2e	2257
Scope 3		tCO_2e	
Energy			
Total Comprehensive Energy Consumption		tce	1368.95
Energy Use Intensity		tce/Revenue	-
Direct Fossil Energy Consumption			
Coal		t	None
Gasoline		L	None
Diesel (Oil)		L	None
Natural Gas		m^3	732818
Liquefied Petroleum Gas (LPG)		m^3	None
Argon (Gas)		t	10
Indirect Energy Consumption			
Purchased Electricity	Total Amount	kWh	3208332
	Non-Renewable Electricity	kWh	None
	Renewable Electricity	kWh	None
Outsourced steam		t	None
Clean Energy Usage			
Photovoltaic power generation capacity		kWh	None
Water Resources			
water consumption	Water Intake Volume	t	21992
	Water Consumption Volume	t	76
Water Recycling	Recycled Water Volume	t	None
	Recycled Water Ratio	%	None

Indicator		Unit	2024
Waste Gas			
CO		t	2.9
Dust		t	0.6
O_3		t	＜0.02
NO_x		t	＜0.012
Waste Water			
Total Domestic Wastewater		t	65
Total Industrial Wastewater		t	-
COD		t	-
BOD		t	-
NH3-N		t	-
TN		t	-
TP		t	-
Solid Waste			
Total Waste Generated	Total Amount	t	-
Among Which:		t	-
Harmless Solid Waste	Total Amount	t	-
	Intensity	t	-
Hazardous Solid Waste	Total Amount	t	-
	Intensity	t	-
Circular Economy Performance			
Waste Recycling and Utilization	Total Amount	t	-
Renewable Resources	Total Consumption	t	-
Environmental Protection Performance			
Environmental Protection Investment		Ten Thousand Yuan	5
Environmental Pollution	Case	incidents	0
	Penalty amount	Ten Thousand Yuan	0
Environmental Compliance Performance			
The amount of significant administrative penalties or penalties for being held criminally responsible		Ten Thousand Yuan	0

SOCIETY

INDUSTRY INNOVATION MODEL

Adhering to customer-centricity, driven by technological innovation, led by outstanding quality, and supported by rapid delivery, the company has become a strategic partner of many central and state-owned enterprises including the "Five Major and Six Minor" power groups. While deeply exploring the domestic market, the company also expands the overseas market simultaneously, with products sold to many countries and regions such as Southeast Asia, the Middle East, Africa, Europe, South America, and Australia.

Growing towards the sun and empowering the future, the company is committed to using more efficient, reliable and economical products and services to continuously increase the proportion of clean energy in the new power system, help the sustainable development of the global energy industry, and empower mankind with a cleaner and better low-carbon life.


发明专利证书


发明专利证书


发明专利证书


Safenet Certification Services Ltd.

EC Examination Certificate

This is to certify that

Jiangsu Evershine Energy Technology Co., Ltd.

Xuzhou Economic Development Zone, Jiangsu Province, China

Has had a range of ESET Solar Horizontal Single Axis Trackers examined to the Machinery Directive 2006/42/EC, as amended and the Low Voltage Directive 2014/35/EU

With reference to model ESET-ZP

Manufactured by:

Jiangsu Evershine Energy Technology Co., Ltd.

Xuzhou Economic Development Zone, Jiangsu Province, China

Certificate Number: 3295040522

Date of Issue: 17/05/2022

Signed for Safenet Certification Services Ltd.

Peter McNicol
Technical Manager


CERTIFICATE

知识产权合规管理体系认证证书

江苏新恒源能源技术有限公司

Stimulating Innovation Vitality

Leader in PV & Energy Storage Technology: Top-tier Team Drives Industrial Innovation

Jiangsu EverShine Energy Technology Co., Ltd. focuses deeply on the fields of photovoltaic (PV) and energy storage. With strong technological innovation and best business practices, it has elevated the development and utilization of new energy to a new level. The company currently has more than 100 R&D personnel, among whom over 30% hold doctoral or master's degrees, and over 40% have intermediate or senior professional titles. R&D personnel cover technical fields such as wind engineering, civil engineering, geotechnical engineering, mechanical automation, power electronics, and artificial intelligence. The R&D team has an international R&D system and rapid-response R&D and design capabilities, enabling it to promptly provide customers with overall solutions for PV bracket systems and energy storage systems.

In 2024, the company's R&D investment reached RMB 55.34 million, accounting for 2.20% of its revenue. Among the investment, personnel expenses were RMB 21.58 million, equipment purchase cost was RMB 10.52 million, material consumption was RMB 17.71 million, and other expenses were RMB 5.53 million.

Research Achievements

The company has obtained a total of 86 authorized patents and software copyrights, including 6 invention patents, 50 utility model patents, 5 design patents, 20 software copyrights, and 5 registered trademarks.

Invention patents, utility models Design patents, software copyrights, and Registering trademarks and other patents **86** pieces

Invention Patent **6** pieces

Utility Model **50** pieces

Design Patent **5** pieces

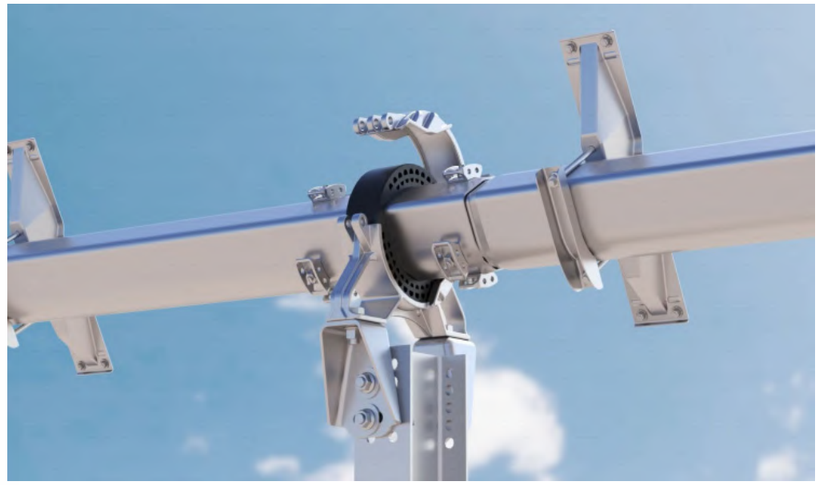
Software Copyright **20** pieces

Registered Trademark **5** pieces

Case

In 2023, the company developed a new generation of PV tracking bracket system with a full-range self-locking structure. This system has passed multiple international certifications such as CPP wind tunnel aeroelastic test, SBP bracket structure review, CE, TUV, and UL. By the end of 2024, it had won more than 10 international orders and completed project applications.

Horizontal Single-axis Qizhuo ESEEK: Based on the design concept of "safer parking in strong winds, more convenient installation and operation, and more stable technology and processes", Qizhuo ESEEK is a new generation of tracker that meets customers' needs for efficient power generation throughout the entire life cycle. A single row can carry up to 4 strings, with a maximum length of 150 meters. Driven by a high-speed worm gear slewing reducer, it adopts dual protection of full-range structural self-locking and axisymmetric damping, featuring rapid protection capability and higher system safety.



R&D Team Picture

Intellectual Property Management

The company has established a systematic and standardized institutional system for intellectual property management, covering the full-life-cycle management of patents, trademarks, and copyrights. Specific measures include:

Clarifying the division of responsibilities: The company has set up intellectual property engineers responsible for system formulation, training, patent layout, and dispute handling, while the business departments of subsidiaries implement risk prevention and daily management;

Strengthening legal compliance: The company strictly standardizes the application, use, and protection processes in accordance with the Patent Law, Trademark Law, etc., and requires contracts to clearly specify ownership clauses;

Establishing emergency plans: The company has set up response processes such as investigation and evidence collection, lawyer intervention, negotiation and litigation for patent and trademark infringement;

Implementing innovation incentives: The company distributes rewards in accordance with standards such as invention patent authorization rewards and utility model rewards. Through cross-departmental collaboration and linkage with third-party agencies, it ensures the efficient operation of intellectual property and risk prevention and control, fully safeguarding the company's innovative achievements and legitimate rights and interests.

Forging Outstanding Quality

Project	Target
Project delivery qualification rate	100%
Customer satisfaction	⩾90 Points
Solid waste classification, collection and treatment rate	100
Fire occurrence rate	0
Number of traffic accident injuries	0
Number of electric shock accidents	0

The company forges outstanding quality through multi-dimensional measures and has built a full-process quality assurance system. Specific measures include:

Strict supplier management: conduct semi-annual reviews, promote standardized publicity documents and targeted training, strengthen raw material control (limit cooperation with major domestic steel plants, cut middle sections for inspection), eliminate controversial testing institutions, and verify data reliability through dual-institution comparison; In-depth process control: clarify standards for all links from quality planning to delivery inspection (such as full-size inspection of first articles, random inspection of key dimensions in accordance with ISO standards, trace retention for key trial assembly nodes, and package-by-package verification of packaging labels), and ensure traceable implementation relying on digital tools; Optimize quality planning and improvement mechanisms: formulate 190 quality plans throughout the year to cover all delivery projects, and strengthen cross-departmental collaboration, regular inspections and international standard training for implementation shortcomings; Strengthen after-sales problem traceability: analyze quality loss cases and formulate preventive measures, while improving the quality document preparation skills of all employees to meet the needs of export projects. Through systematic control, continuous improvement and full participation, the company comprehensively improves product quality and customer satisfaction.

Key Performance

The company has obtained ISO9001:2015 Quality Management System certification

Customer Communication and Exchange

Core Commitment Quality Assurance

10-year warranty for structural parts, 5-year warranty for electronic control systems, and system design life ＞ 30 years

Beyond Time Limit Exclusive Escort

"Beyond the warranty period - we customize escort solutions for Gobi storms, mountain undulations, and island salt spray, making every inch of sunlight manageable."

Full-Process Service Value Co-Creation

Pre-sales: Professional Team · Customized Solutions

The company brings together senior industry elites and professional technical talents to form a professional sales team. We are committed to deeply understanding your needs, providing comprehensive product information consultation, and tailoring accurate and efficient solutions to meet diversified application scenarios.

In-sales: On-site Support · Ensuring Implementation

During the product delivery phase, we dispatch professional engineers to provide on-site services. In strict accordance with technical specifications, detailed technical disclosure and professional training are conducted for key links such as on-site inspection and acceptance of products, installation guidance and commissioning, project acceptance and maintenance to ensure the smooth implementation of the project.

After-sales: Efficient Response · Continuous Improvement

Quick Response: We strictly select and systematically train a professional customer service team, and establish a "24-hour response mechanism". After receiving feedback, the customer service will take the initiative to contact you within 24 hours to understand the details, provide emergency solutions, and start the internal processing process at the same time.

Problem Solving: Quickly form a special team to conduct in-depth analysis of the causes, clarify the responsibility ownership, and completely solve the root cause of the problem.

Service Network: Continuously expand the coverage of domestic on-site services to ensure quick response and on-site support; for overseas customers, promote localized services, hire local professionals, eliminate communication barriers, and improve service efficiency.

Diversified Communication: Provide multi-channel convenient service portals such as official website, WeChat official account, customer service hotline, and email.

Listening and Optimization: Conduct customer satisfaction surveys every year, actively collect feedback, continuously optimize service processes, and pursue excellent experience.

Practicing Responsibility Moving Towards the Future Together

By building an excellent service system throughout the entire product life cycle, we are committed to continuously creating value for customers, leading the improvement of industry service standards, earnestly fulfilling corporate social responsibility, and contributing to sustainable development.

CREATING SHARED VALUE WITH PARTNERS

A healthy and stable supply chain is a key link for enterprises to achieve sustainable development. Starting from multiple dimensions such as supplier access, management, evaluation, assessment, and supplier quality improvement, the company integrates the concept of sustainable development into all key links of supply chain management, actively practices responsible procurement, strengthens the management of key nodes, and jointly builds a green, compliant, and responsible supply chain.

Standardizing Supplier Access

In the supply chain management link, ESET has formulated a system framework including Supplier Development and Access Procedures and Supplier Management and Evaluation Measures, covering the whole-process management of supplier development, access, assessment, and elimination. In response to the procurement needs of different types of materials, the company adopts standardized processes such as preliminary evaluation and screening, sample testing, on-site inspection, and qualification assessment to ensure that suppliers meet requirements in terms of quality, delivery time, price, and service, and realize traceable quality, controllable process, and preventable risk of raw material sources.

Based on the strategic goals of technological upgrading and sustainable development, the company continuously optimizes the supplier access mechanism. New suppliers are required to submit qualification documents such as business licenses and quality certification certificates through the Supplier Questionnaire, and accept the joint review of the supply chain department, quality department, and review team. At the same time, they need to sign the Integrity Agreement and Technical Agreement before cooperation to ensure the responsibilities and obligations of both parties in compliant operation, intellectual property protection, and technical confidentiality.

In the future, ESET plans to align with international ESG standards, gradually introduce supply chain sustainable audit and social responsibility systems, further strengthen the compliance of suppliers in the fields of environmental protection, labor rights, and business ethics, and help the company achieve the coordinated development goals of technological upgrading, cost optimization, and green transformation.

Key Performance Indicators

Proportion of suppliers certified by ISO9001 Quality Management System	92%
Proportion of suppliers certified by ISO14001 Environmental Management System	75%
Proportion of suppliers certified by ISO45001 Occupational Health and Safety Management System	75%

Improving Supply Chain Management

Suppliers with a score below 70 will be included in the elimination list to promote the iteration of the supply chain towards efficiency and environmental protection. The company simultaneously establishes a supplier appeal and complaint mechanism to ensure the fairness of cooperation, and through the continuous update of the Qualified Supplier List, builds a transparent and mutually trusted partner ecosystem.

CREATING A DYNAMIC WORKPLACE

ESET has always regarded talents as the core engine for the enterprise's innovative breakthroughs and quality upgrading, and deeply understands the strategic demand for compound and professional talent teams in the high-quality development of the energy equipment industry.

Adhering to the talent development concept of "combining introduction and cultivation, and coordinating internal and external resources", the company deeply integrates talent rights protection and career development planning into its management system, establishes a salary and welfare mechanism that is both industry-adaptable and incentive-oriented, and accurately meets the diverse needs of key positions such as technological R&D, quality control, and international business.

Employee Overview

Centering on its corporate strategies (such as business expansion, cost reduction and efficiency improvement), the company has formulated the core goals for 2025:

Talent echelon construction: 100% coverage rate of talent reserve for key positions;

Per capita efficiency improvement: 20% increase through training and process optimization;

Employee satisfaction: increased to over 90%.

ESET takes digital transformation as the core strategy for enterprise efficiency upgrading, taking the lead in making breakthroughs in the field of human resource management, and realizing refined management and scientific decision-making through technological empowerment. In terms of talent management, the company has launched an intelligent HR data analysis system, built multi-dimensional talent profiles based on big data algorithms, integrated key data such as employee performance, skill evaluation, training records and career development trajectories, and accurately identified the compatibility between high-potential talents and key positions; at the same time, it has built a turnover early warning model, predicted potential turnover risks through behavioral data monitoring (such as abnormal attendance, fluctuations in project participation) and satisfaction analysis, formulated talent retention strategies in advance, and promoted the transformation of talent management from "post-event response" to "forward-looking intervention".

Jiangsu EverShine Energy Technology Co., Ltd. has established a structured guarantee mechanism in employee management, and strengthens management efficiency through three measures:

Budget allocation **1**	clarify the investment ratio of training, recruitment and digital system construction in the human resource budget to ensure that resources are tilted towards core talent development and technological upgrading;
Responsibility division **2**	formulate human resource goals on a quarterly basis, decompose them item by item to the person in charge of recruitment, training, salary and other modules, and track the implementation progress through regular review;
Risk plan **3**	establish an early warning mechanism and key position succession plan for the risk of talent loss; simultaneously monitor changes in policies and regulations, formulate adjustment strategies in advance and organize special training.

Through budget coordination, target decomposition and risk pre-control, a systematic management closed loop is formed to provide guarantee for employee stability and organizational development.

Ensuring Employee Rights and Interests

ESET implements a multi-dimensional optimization strategy in talent recruitment to improve talent matching efficiency and organizational vitality: focusing on goal orientation throughout the year, it has achieved an 80% recruitment target achievement rate and a 70% onboarding rate for key positions, effectively supporting business development needs; through channel upgrading, it has added campus recruitment to deepen school-enterprise cooperation, introduced headhunting services to accurately connect with high-end talents, and innovated internal recommendation incentive mechanisms (such as linking recommendation bonuses to promotion) to expand talent acquisition channels; at the same time, it strengthens forward-looking layout, improves the construction of talent reserve pool, reserves 20 suitable talents for key positions such as technology R&D and supply chain management, and establishes a dynamic evaluation and targeted training mechanism to ensure the resilience of the talent supply chain. Through the linkage of precise recruitment, channel innovation and reserve system, the company has built an efficient and sustainable talent introduction ecosystem.

By optimizing recruitment channels (adding campus recruitment, headhunting cooperation and innovating internal recommendation mechanisms), Jiangsu EverShine Energy Technology Co., Ltd. has achieved an 80% recruitment target achievement rate and a 70% onboarding rate for key positions throughout the year, and improved the construction of talent reserve pool (reserving 20 talents for key positions), systematically enhancing talent introduction efficiency and strategic reserve capacity.

By optimizing the performance appraisal system (dynamic KPI + business strategy alignment), adjusting the salary structure to benchmark industry competitiveness (salary adjustment covers 80%, key positions reach the top 50% of the industry), and implementing a two-dimensional incentive plan of "performance + ability", the company has built a "appraisal-salary-incentive" linkage mechanism, driving a 15% improvement in employee efficiency and the efficient achievement of strategic goals.

The company implements the "Elite Program" to introduce high-end talents in core business areas, simultaneously promotes the internal job rotation mechanism and the flat reform of organizational structure, and optimizes talent allocation efficiency through the dual-track strategy of "external introduction + internal training", comprehensively improving team professionalism and organizational response agility.

Jiangsu EverShine Energy Technology Co., Ltd. has piloted the "project-based bonus pool" to strengthen the performance result orientation, simultaneously optimized long-term incentive plans such as equity and stock options, and stimulated employees' innovative motivation through the two-dimensional mechanism of "short-term project drive + long-term value binding", realizing the efficient implementation of strategic goals and the in-depth binding of core talents.

The company ensures fair competition in interviews and recruitment through institutionalized process design and multi-participant evaluation mechanisms. In the Interview Management Procedure for Key Positions, the interview process is divided into initial interview, background check, final interview and other links, clarifying the responsibilities of each department (such as administration department coordination, demand department evaluation, middle and senior leadership final review), and relying on the Interview Evaluation Form to conduct quantitative scoring on candidates' communication skills, professional level and other dimensions to reduce subjective judgment deviations. At the same time, the Recruitment Management System emphasizes the principles of "openness, equality and merit selection", prohibits illegal acts such as recruiting child labor and collecting deposits, and expands talent sources through internal competition (such as employees filling in the Internal Competition Application Form and multi-level approval) and external multi-channel recruitment (campus, headhunting, etc.). In addition, background checks (Background Check Form) and probationary assessment ensure the authenticity of candidates' qualifications and job compatibility. Through standardized processes, multi-department checks and balances, and transparent records, these measures systematically protect the right of candidates to participate in competition fairly.

The company improves employee sense of belonging through material incentives such as differentiated salaries (20%-30% higher than the market), long-term equity binding, and project bonus pools, combined with non-material incentives such as flexible working hours and honorary recognition. The salary system conducts regular market benchmarking analysis (2024 work summary) to ensure the competitiveness of key positions. In addition, the Recruitment Management System clearly prohibits collecting deposits (Article 6.6) to protect employees' basic labor rights and avoid illegal deductions.

Supporting Talent Development

The company has established a transparent and quantifiable promotion mechanism. For example, in the promotion case of Zhu Hang, promotion eligibility was determined through quantitative performance (such as RMB 802 million in project delivery value and 99.1% on-time delivery rate) and systematic competency assessment (risk management and control, application of digital tools). Meanwhile, the document Training and Development clarifies the "dual-channel career path" (parallel development in technology and management) and horizontal job rotation mechanism, and refers to Huawei's "zigzag" development path to provide a clear career development channel. Promotion standards are made transparent through competency models and performance indicators to avoid subjective evaluation and ensure fairness in employee promotion.

In terms of employee development, the company adopts a strategy that emphasizes performance-driven development, competency cultivation, and potential exploration equally. Taking Zhu Hang's promotion case as an example, the company measures employee value through quantitative evaluation of core performance (such as project delivery value, on-time delivery rate, inventory optimization, etc.) and systematic competency assessment (resource integration, risk management, cost coordination), while focusing on leadership improvement (strengthening team collaboration, promoting learning enthusiasm) and strategic foresight (application of digital tools, cultivation of market thinking).

For employees' shortcomings, personalized development plans are formulated (such as training on in-depth supply chain management and authorization for cross-departmental collaboration projects), which not only consolidate current capabilities but also cultivate a holistic perspective through practical opportunities (such as leading strategic projects). Through performance orientation, hierarchical competency cultivation, and stimulation of future potential, this system achieves two-way empowerment between employees and the company's strategic goals.

Employee Empowerment and Training

The company has built a hierarchical training system, organizing 50 training sessions throughout the year covering 1,900 person-times with a satisfaction rate of 90%. It simultaneously promotes special training for key talents (leadership training for management, high-potential talent programs) and optimizes the skill certification and promotion mechanism; through digital upgrading, it has built an online learning platform to achieve 100% course coverage, and launched a "Leadership Acceleration Camp" to specifically improve the capabilities of middle managers, forming a closed-loop training ecosystem of "full-staff coverage - core focus - promotion drive" to fully empower the improvement of organizational capabilities.

The company has established a systematic employee training management system, realizing full-process control through clear division of responsibilities, standardized processes, and standardized forms.

Employee Training Performance of the Company in 2024

Employee Training Coverage Rate	100%
Total Number of Employee Training Person-Times	1900
Total Training Participation Person-Times of Male Employees	1300
Total Training Participation Person-Times of Female Employees	600
Number of Internal and External Vocational Skill Training Sessions	20
Lost Workday Injury Rate per Million Working Hours	0
Proportion of Employees Covered by Occupational Health and Safety Management System	20%

Adhering to Occupational Health

The company has always focused on employees' occupational health and safety, adhered to the principle of "people-oriented, safety first", continuously promoted the construction of a long-term mechanism for work safety, comprehensively improved the level of work safety management, advocated a work safety culture, and effectively protected employees' health and safety.

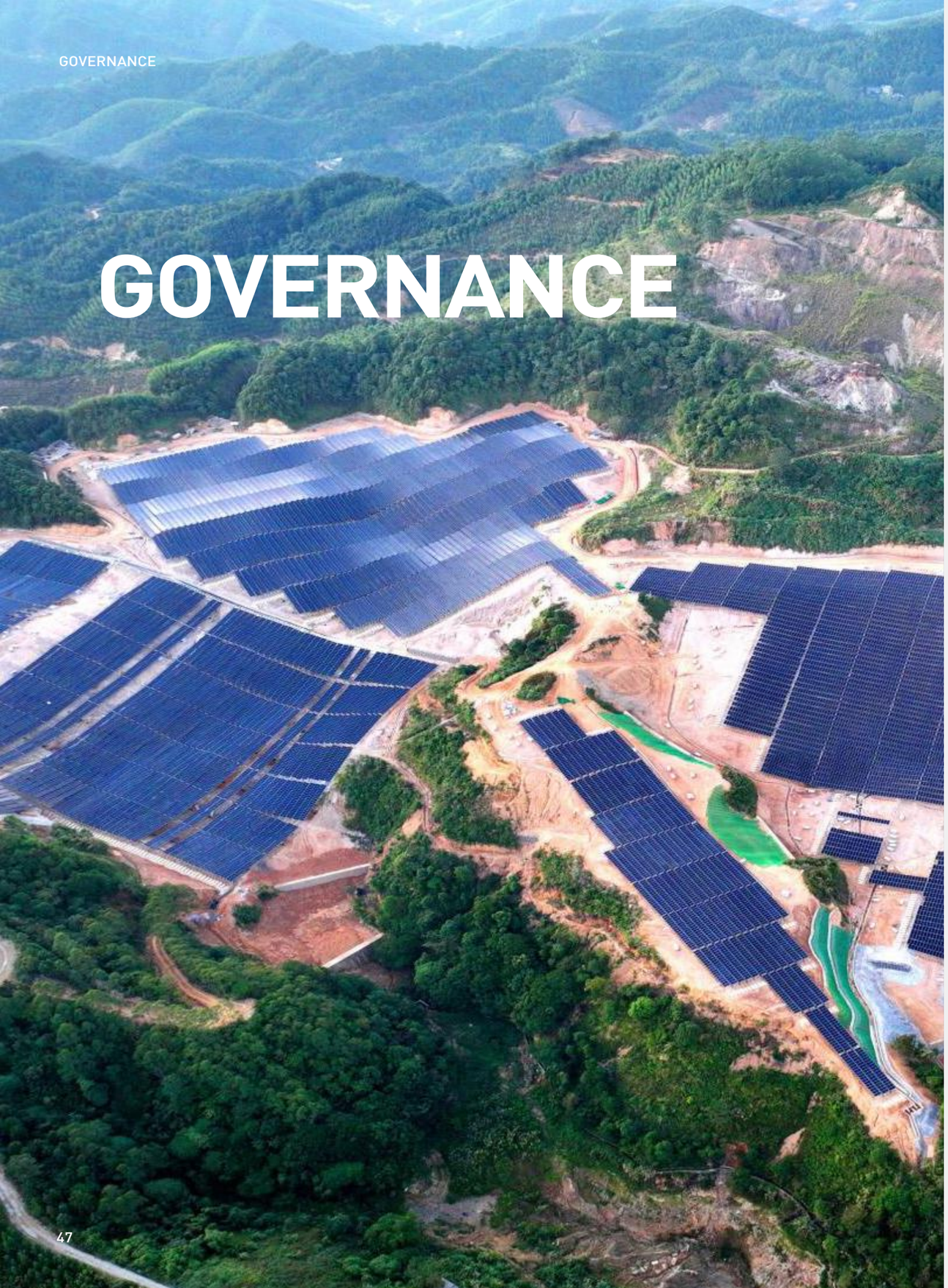
Construction of Safety Management System

The company has always regarded employees' occupational health and safety as a core management element, and built a safety protection barrier with a systematic and standardized management framework. In strict accordance with the requirements of national laws and regulations such as the Work Safety Law of the People's Republic of China and the Occupational Disease Prevention and Control Law, the company has formulated supporting systems including HSE Education and Training Management Regulations, Occupational Health Management Procedures, Employee Occupational Health Monitoring and Archives Management System, and Relevant Parties' Safety Management Regulations, forming a full-chain management system covering risk prevention, process control, and emergency response.

Indicator		Unit	2024
Occupational Health and Safety			
Work Safety Investment		yuan	265000
Safety Training Duration	Total Duration	hour	13.5
	Per Capita Duration	hour	0.5
Work-Related Injury Insurance	Investment Amount	yuan	3979.17
	Coverage Rate	%	100%
Work Safety Liability Insurance	Investment Amount	thousand yuan	/
	Coverage	%	/
Occupational Diseases / Casualties	Occupational Disease Incidence Rate	%	0%
	Work-Related Death Toll	%	0%
	Workdays Lost Due to Work-Related Injuries	%	0%
	Injury Rate per Million Working Hours	%	0%

Creating a Warm Atmosphere

In terms of employee care and corporate culture construction, the company's employee satisfaction rate has increased to 85%, and the turnover rate has decreased by 20% year-on-year. The company actively creates a warm working atmosphere by implementing a series of care initiatives, such as holiday condolence activities and special care for employees on business trips.



GOVERNANCE

ENHANCING CORPORATE GOVERNANCE

In strict accordance with a series of laws and regulations including the Company Law of the People's Republic of China, the Securities Law of the People's Republic of China, the Guidelines for the Governance of Listed Companies, and the Listing Rules of the Shanghai Stock Exchange, the Company continuously improves its internal corporate governance structure, establishes and perfects the internal control system, further standardizes its operations, strengthens communication with investors, fully safeguards the interests of the majority of investors, and continuously enhances its corporate governance level.

Corporate Governance Structure

A scientific, standardized, efficient, and clearly bounded management system is the prerequisite for the Company's stable operation. The directors, supervisors, and senior management personnel of Jiangsu EverShine Energy Technology Co., Ltd. are all appointed in strict accordance with the qualifications and procedures stipulated in the Company Law and the Articles of Association of the Company. The Company's board of directors brings together management members with diversified backgrounds and professional experience, covering fields such as renewable energy application, sustainable development, legal compliance, business strategy, and financial management and analysis, providing solid professional support for the Company's comprehensive development.

Board of Directors Governance

Jiangsu EverShine Energy Technology Co., Ltd. is committed to building a scientific, standardized, and transparent decision-making mechanism, fully safeguarding the rights and interests of shareholders, and promoting the stable development of the Company. In accordance with laws and regulations such as the Company Law, the Securities Law, and the Listing Rules of the Shanghai Stock Exchange, the Company has established a corporate governance structure composed of the general meeting of shareholders, the board of directors, and the board of supervisors. Each governance body has clear responsibilities, collaborates with each other, and checks and balances each other. All directors carry out their work in strict accordance with the Rules of Procedure of the Board of Directors and the working rules of each special committee, effectively implementing all resolutions adopted by the general meeting of shareholders, and ensuring that the Company develops in a sustainable, healthy, and stable manner.

To further standardize the behavior of senior management personnel, the Company has established an incentive mechanism that links the remuneration of senior management personnel to the Company's performance and individual performance, ensuring that senior management personnel comply with relevant laws and regulations and perform their duties in accordance with the Company's articles of association and relevant provisions.

board of directors

remuneration and appraisal committee

Responsible for formulating and reviewing compensation policies and plans for company directors, supervisors, and senior management personnel

Protection of Investors' Rights and Interests

As a supplier of photovoltaic (PV) bracket and energy storage system solutions, ESET has industry characteristics closely related to attributes such as technology intensity, global layout, and industrial chain collaboration. Combining these characteristics, the Company can adopt the following differentiated measures in protecting investors' rights and interests:

Strengthening Technology Transparency and Achievement Sharing to Consolidate Investors' Confidence

Disclosure of Patents and Technology Roadmaps

Regular release of technical white papers: Disclose in detail the core technologies of PV bracket systems and the battery management technologies of energy storage systems, clarify the technology iteration path, and reduce information asymmetry.

Open display of patent pool: Display the 41 patents and 6 software copyrights held by the Company through an online platform, allowing investors to query by technical number or application scenario, and enhancing technical credibility.

Visualization of Industrial Chain Synergy Effect

Disclosure of intra-group synergy cases: As a member of Huihong Group, Jiangsu EverShine Energy Technology Co., Ltd. can publicly disclose synergy cases with enterprises in the group engaged in metal products, engineering services, etc., demonstrating the cost advantages and improved delivery efficiency brought by industrial chain integration, and highlighting the supporting role of scale effect in investor returns.

Building a Global Risk Management System to Safeguard Overseas Investment Security

Regional Risk Assessment Reports

Disclosure of risk levels by region: For major markets such as Southeast Asia and the Middle East, release annual risk assessment reports, clarify policy risks, exchange rate risks, and geopolitical risks, and disclose response measures to help investors quantify the risks of overseas business.

Special Overseas Compliance Audits

Introduction of third-party compliance audits: For overseas projects, engage international law firms to conduct compliance audits, focusing on reviewing the implementation of anti-corruption, labor rights, and environmental protection clauses. The audit reports are reviewed by independent directors and then disclosed to investors to enhance the transparency of overseas operations.

Optimizing Investor Return Mechanism to Balance Short-Term and Long-Term Returns

Differentiated Dividend Policy

Establishment of a technology dividend pool: Allocate a certain proportion of profits from energy storage system orders to establish a "technology dividend pool", which is specially used for equity incentives or special dividend distribution to encourage long-term holdings by investors.

Investor Education Programs

Launch of "New Energy Technology Investment Courses": Collaborate with industry associations to hold online lectures, interpret the technical trends of the PV industry, policy developments, and the Company's response strategies, improve investors' professional knowledge, and reduce irrational selling.

Improving Corporate Governance and Emergency Mechanisms to Prevent Systemic Risks

Establishment of a technical decision review team: Led by independent directors and jointly established with external technical experts, the review team conducts feasibility studies on major technical investments to avoid blind expansion that harms investors' interests.

Emergency Response Plans for Unexpected Events

Formulation of "black swan" event response procedures: Develop hierarchical response plans for risks such as trade barriers and technological substitution.

ENSURING COMPLIANT OPERATIONS

Jiangsu EverShine Energy Technology Co., Ltd. has always believed that compliant operations are the fundamental guarantee for the long-term and stable development of an enterprise, and even more the core engine driving the high-quality development of the enterprise. With firm conviction and unremitting efforts, the Company continuously improves the compliance management system and builds a comprehensive risk prevention and control barrier. By systematically sorting out the key nodes in business processes, in-depth identifying and evaluating various risk hazards, and adopting precise and regular control measures, the Company ensures that the risk prevention threshold is moved forward, providing protection for the sustainable development of the enterprise.

Law Abiding and Compliance

Full-Process Environmental Compliance Management to Consolidate the Bottom Line of Green Development

"Three Simultaneities" System for Environmental Impact Assessment

Strict implementation of pre-approval for environmental impact assessment: For projects such as newly-built hot-dip galvanizing production lines and PV bracket production bases, in accordance with the Regulations on the Administration of Environmental Protection for Construction Projects, environmental impact assessment is initiated at the project approval stage to ensure that construction can only start after the assessment document is approved.

Simultaneous acceptance of environmental protection facilities and main projects: Support the construction of environmental protection facilities such as waste gas treatment systems and wastewater recovery devices, which are commissioned and put into production simultaneously with the production line.

Clean Production Technology Transformation

Optimization of electroplating processes: Adopt chromium-free passivation technology to replace the traditional chromate treatment process, reduce heavy metal emissions, and comply with the requirements of the Clean Production Promotion Law.

Energy auditing and carbon footprint management: Conduct regular energy audits, conduct quantitative monitoring of energy consumption per unit output value of the PV bracket production line, and publicly disclose product carbon footprint reports in response to the "dual carbon" goals.

Standardized Work Safety System Covering Full-Chain Risk Control

Construction of Dual Prevention Mechanisms

Risk classification and control: Conduct risk identification for high-risk operation links such as PV tracker installation and energy storage container commissioning, divide risk levels into four grades (red, orange, yellow, and blue), and formulate special control measures.

Hidden danger investigation and management: Establish a three-level inspection system of "daily team inspection, weekly workshop inspection, and monthly company inspection", and use AI visual recognition technology to capture violations (such as not wearing safety helmets and not using safety ropes for high-altitude operations) at the production site in real time and form a closed-loop for rectification.

Improvement of Emergency Management Capabilities

Formulation of special emergency plans: Develop emergency response cards for accident types such as fire, electric shock, and mechanical injury, specifying emergency response procedures and responsible persons.◦

Work Safety Standardization Certification: The company has obtained ISO 45001 Occupational Health and Safety Management System certification, integrated the work safety responsibility system into performance appraisal, and implemented a "one-vote veto" for departments that fail to rectify accident hazards.

Full-Lifecycle Traceability of Product Quality to Strengthen Market Compliance Assurance

Full-Chain Quality Traceability System

Raw Material Traceability: Implement batch management for raw materials such as zinc-aluminum-magnesium strips and steel. Suppliers are required to provide SGS material reports, and full-process traceability from warehousing to finished products is realized through QR code labels.

Finished Product Quality Certification: PV bracket products must obtain certifications in line with international standards such as UL 2703 and TUV IEC 62817. Before delivery, 12 tests including load testing and corrosion resistance testing are conducted to ensure compliance with the requirements of the Product Quality Law.

Defective Product Recall Mechanism

Proactive Monitoring and Reporting: Establish a customer complaint database to conduct trend analysis on quality issues such as bracket system deformation and fastener loosening. If a batch of products has common defects, the company shall report to market supervision authorities within 24 hours and initiate the recall procedure.

Product Liability Insurance: Purchase product liability insurance to compensate for third-party property losses or personal injuries caused by product quality issues, thereby reducing compliance risks.

Anti-Monopoly and Fair Competition

Jiangsu EverShine Energy Technology Co., Ltd. has adopted a series of measures in anti-monopoly and fair competition to ensure its business activities comply with relevant laws and regulations and maintain a fair competitive market environment.

Establishing an Anti-Monopoly Compliance System

Regular Compliance Training

Regularly organize employees to learn the Anti-Monopoly Law, the Anti-Unfair Competition Law and relevant supporting regulations. Focus on high-risk departments such as sales, procurement and technical cooperation, and strengthen training on core provisions such as "no monopoly agreements shall be concluded" and "abuse of dominant market position shall be prohibited".

Carry out warning education by combining industry cases (such as cases where PV enterprises were punished for horizontal monopoly agreements) to enhance the compliance awareness of all employees.

Internal Review Mechanism

Establish an anti-monopoly compliance department or assign dedicated personnel to conduct anti-monopoly risk assessment on major business decisions (such as joint R&D, pricing strategies, and bidding cooperation) to avoid reaching agreements with competitors on price fixing, market division, etc.

Establish compliance files to record the review process and conclusions, ensuring traceability.

Regulating Market Competition Behavior

Fair Competition Policy

Formulate the Code of Fair Competition Conduct, clearly prohibiting acts such as commercial bribery, false advertising, and slandering competitors. For example, in bidding, it is strictly prohibited to obtain information through improper means or interfere with bid evaluation.

Strengthen the management of suppliers and distributors, requiring them to sign the Anti-Unfair Competition Commitment to avoid exclusive transactions using Jiangsu EverShine Energy Technology Co., Ltd.'s market position.

Pricing and Channel Management

Avoid selling products below cost (dumping) or attaching unreasonable transaction conditions to prevent abuse of dominant market position.

In cross-border e-commerce, avoid reaching regional restriction agreements with overseas distributors to prevent violations of anti-monopoly laws and regulations in the EU, the United States and other regions.

Strengthening Technological Innovation and Intellectual Property Protection

Technology-Driven Competition

Increase R&D investment, form technical barriers through patent layout, and reduce reliance on price wars.

Participate in the formulation of industry standards, enhance the right to speak in the industry, and avoid low-level redundant competition.

Intellectual Property Risk Prevention and Control

Regularly search industry patents to avoid infringement.

Conduct global layout of core patents to guard against "patent traps" set by international competitors.

Addressing International Competition Challenges

International Trade Compliance

Establish a rapid response mechanism in response to anti-dumping and countervailing ("double anti") investigations in Europe and the United States (such as U.S. countervailing duties on PV products), cooperate with commerce departments in responding to lawsuits, and safeguard export interests.

When investing overseas, conduct advance assessment of local anti-monopoly laws to avoid investigations due to government subsidies.

Localized Compliance Operations

Establish local compliance teams in markets such as Australia and South America to ensure sales strategies comply with local Competition and Consumer Laws and avoid penalties for bundled sales and exclusive agreements.

ANTI-CORRUPTION

ESET upholds the corporate spirit of "Sincerity, Simplicity, Awe, and Gratitude", abides by business ethics, and is committed to building an honest and upright corporate culture. When conducting business and commercial activities globally, the company always complies with local laws and regulations, and firmly prohibits all acts of obtaining business through improper means.

Establishing an Integrity System

Strengthening Compliance Culture and System Construction

Regular Compliance Training

In view of its technology-intensive nature, the company regularly organizes departments such as R&D, procurement, and sales to study the Anti-Unfair Competition Law, the Tendering and Bidding Law, and industry integrity guidelines, with a focus on analyzing typical cases in the PV industry such as bid rigging and technical information leakage.

New employees sign the Integrity Commitment Letter upon onboarding, which clearly prohibits acts such as accepting gifts from suppliers and using insider information for personal gain.

Formulating Integrity Management Systems

The company has issued the Code of Conduct for Integrity in Business, covering core areas such as commercial bribery, conflicts of interest, and technical confidentiality. For example, it stipulates that employees shall not seek benefits for specific suppliers through false bidding or biased technical parameters, and establishes integrity files to track violations.

Improving Integrity Management in Tendering & Bidding and Supply Chain

Full Electronic Tendering and Bidding

An electronic tendering and bidding platform is introduced to realize the whole-process online management of tender document release, bidding, and bid evaluation, reducing human intervention. For instance, the system automatically compares the deviation of bid prices to identify signs of bid rigging.

Joint Integrity Construction in Supply Chain

The company signs the Integrity Cooperation Agreement with suppliers, clearly prohibiting commercial bribery, false pricing, and other acts. It also establishes supplier integrity files and implements a "blacklist" management for suppliers with bribery records.

Technology-Driven Integrity Risk Prevention and Control

Digital Monitoring Tools

Big data analysis technology is used to establish an integrity risk early warning model.

Blockchain technology is deployed in project management to upload information of contract performance, fund payment, and other links to the chain, ensuring data immutability and full-process traceability.

Blockchain-Enabled Supply Chain Transparency

In view of the long procurement chain of PV equipment, the company collaborates with suppliers to build a blockchain platform, recording the whole-process information of raw material procurement, production, and logistics.

Strengthening Internal Supervision and Accountability Mechanism

Establishing a Full-Time Integrity Supervision Department

An integrity supervision team led by the Secretary of the Disciplinary Committee is established, independent of business departments, to conduct regular internal audits and special inspections.

Emphasizing Both Strict Accountability and Incentives

The company adopts a "zero-tolerance" policy for violations. For example, if an employee is found to extort bribes by using technical advantages, the labor contract will be terminated immediately and legal responsibilities will be pursued. Meanwhile, an integrity reward fund is established to provide material rewards (such as bonuses and promotion points) to employees who make valid reports or have outstanding integrity performance.

Unblocking Complaint Channels

To create unobstructed reporting and complaint channels, ESET has formulated the Fraud Reporting Management Measures, providing internal and external stakeholders with multiple reporting channels such as WeChat official account, complaint hotline, and email. Upon receiving a report, the company immediately submits it to the audit and supervision department for preliminary screening and in-depth investigation in accordance with the Fraud Investigation Management Measures. Suspected criminal acts will be transferred to the legal department for handling.

ESET attaches great importance to the protection of whistleblowers, strictly keeps the identities of whistleblowers and report information confidential, and strictly prohibits any extortion, threat, or retaliation against whistleblowers. Responsible persons who violate confidentiality regulations will be severely and severely punished, and there will be no leniency for violations, fraud, or the persons involved.

During the reporting period, the company conducted corruption risk assessments on 100% of its operating locations. No lawsuits or cases involving corruption or violations of business ethics occurred in the company.

Promotion of Integrity Culture

System Foundation: Building an Integrity and Compliance Framework

Formulating Specialized Integrity Systems

For high-risk links such as PV project tendering and bidding, energy storage equipment procurement, and EPC project subcontracting, the company has issued the Code of Conduct for Integrity in Business and the Supplier Integrity Cooperation Agreement, clearly defining "red-line behaviors" such as prohibiting accepting banquets or gifts from suppliers and strictly forbidding fraud in project acceptance.

Improving Internal Control Mechanisms

A supervision team for "three major decisions and one large expenditure" (major decisions, major personnel appointments, major project arrangements, and large fund use) is established to conduct compliance reviews on investment decisions, large fund use, and other matters, avoiding corruption risks caused by concentrated power.

A "sunshine procurement" system is implemented, requiring suppliers to disclose quotations and qualifications, and third-party audits are introduced to conduct random inspections on contract performance.

Educational Immersion: Cultivating the Soil for Integrity Awareness

Hierarchical and Categorized Integrity Training

Management	Special training on "Integrity in Business and Strategic Risks" is carried out, combining corruption cases in the energy industry (such as rent-seeking in project approval rights) to strengthen the awareness of "dual responsibilities for one position".
Technical team	A "technical integrity" module is embedded in R&D regular meetings to warn of risks such as data fraud and patent application fraud.
Frontline employees	"Integrity micro-classes" are held to explain compliant operations in PV installation and energy storage equipment commissioning, such as prohibiting false reporting of working hours and replacement of materials.

Penetration of Cultural Activities

An "Integrity Culture Month" is held, featuring integrity-themed photography exhibitions and calligraphy competitions.

The Integrity in Business Handbook is compiled, integrating the corporate core values of "Diligence, Openness, Courage, and Responsibility", and a comic version of integrity is designed for overseas employees to learn.

During the reporting period, Jiangsu EverShine Energy Technology Co., Ltd. continuously increased the intensity of integrity promotion. It guided employees to engage in honest work through various initiatives such as onboarding training, system training, case sharing activities, promotion via WeChat official account, and signing of integrity agreements.

In addition to employee integrity training, the company also regularly conducts integrity education and training for suppliers and distributors to strengthen the integrity awareness of partners.

PROTECTING INTELLECTUAL PROPERTY RIGHTS

Key Performance

Jiangsu EverShine Energy Technology Co., Ltd. attaches great importance to intellectual property protection, actively uses legal means to protect innovation achievements, and creates a sound innovation environment.

In 2024, it newly filed 12 patents and 4 software copyrights in China. It was invited to join the compilation team of General Technical Requirements for Photovoltaic Components for Construction, General Technical Requirements for Supports of Solar Photovoltaic Systems for Construction, and General Technical Requirements for Solar Thermal Components for Construction.

中国建筑设计研究院有限公司

关于召开建筑工业行业标准《建筑用光伏构件通用技术要求》《建筑用太阳能光伏系统支架通用技术要求》《建筑用光热构件通用技术要求》编制组成立暨第一次工作会议的通知

各起草单位：

根据《住房和城乡建设部关于印发2023年工程建设标准编制及相关工作计划的通知》（建标函〔2023〕42号）的要求，建筑工业行业标准《建筑用光伏构件通用技术要求》《建筑用太阳能光伏系统支架通用技术要求》《建筑用光热构件通用技术要求》已列入编制计划，中国建筑设计研究院有限公司为第一起草单位。经研究，定于2023年10月24日在北京召开三项标准的编制组成立暨第一次工作会议。现将有关事项通知如下：

一、会议时间

10月24日（周二）9:00开始，会期一天。

二、会议地点

中国建筑设计研究院有限公司1号楼第八会议室

地址：北京市西城区车公庄大街19号

三、会议内容

宣布编制组成员，学习工程建设标准化工作有关文件。

Layout and Operation of Core Technology Patents

Full-Chain Patent Layout

PV Tracking System: Based on the authorized patents such as "Photovoltaic Main Beam" and "Bearing Seat", the company further conducts patent layout around core technologies including intelligent drive algorithms, high-precision sensors, and weather-resistant materials, forming a protection network of "basic patents + peripheral patents".

Energy Storage System: It files invention patents in the fields of lithium battery management system (BMS), thermal management technology, and modular design, covering the entire chain of battery cells, PACK, and system integration.

EPC Turnkey Mode: It files utility model patents and software copyrights for links such as design optimization, construction technology, and operation & maintenance platforms of distributed energy projects to protect engineering innovation achievements.

Patent Operation and Protection

It establishes a patent classification management system, and conducts licensing, transfer, or pledge financing for high-value patents. For example, it licenses PV tracking algorithm patents to overseas partners.

It joins hands with industry alliances to launch patent pools and conducts cross-licensing of key technologies to reduce litigation risks.

Three-Dimensional Protection of Trade Secrets

Classified Management of Technical Secrets

For core secrets such as PV bracket material formulas and SOC estimation algorithms of energy storage systems, it implements dual protection of "physical isolation + digital encryption":

Physical isolation: Establish independent R&D laboratories equipped with biometric access control and electromagnetic shielding equipment.

Digital encryption: It uses blockchain evidence storage technology to upload hash values of design drawings and simulation models to the chain, ensuring traceability and non-tampering.

For medium and low-level secrets (such as production SOPs and customer lists), it implements permission control and monitors file outgoing behavior through the DLP data leakage prevention system.

Full-Process Personnel Control

Onboarding: Sign Non-Compete Agreements and Confidentiality Commitments with R&D personnel, specifying that they shall not engage in similar businesses within two years after resignation.

During employment: Conduct regular confidentiality training and include confidentiality breach penalty clauses in the Employee Handbook.

Offboarding: Conduct exit audits, recover physical credentials such as access cards and USB tokens, and sign Post-Employment Confidentiality Agreements.

Supply Chain Confidentiality Collaboration

It signs Confidentiality Agreements with suppliers and requires them to obtain ISO 27001 Information Security Management System certification.

For key components (such as inverter chips), it adopts the mode of "technology splitting + segmented supply" to reduce the risk of technology leakage.

Brand and Copyright Protection

Global Trademark Registration

It registers the "Xinyuan Energy" (Xinhengyuan Energy) trademark in core markets (such as the EU and the US), covering related categories including Class 7 (Mechanical Equipment), Class 9 (Software), and Class 12 (Transportation Vehicles).

It monitors trademark squatting behaviors and files oppositions or invalidation declarations against malicious registrations.

Software Copyright Reinforcement

It conducts code obfuscation and packing for software such as "PV Tracking Bracket Mobile Debugging Software" and "PV Tracking Bracket SCADA System" to prevent reverse engineering.

It embeds digital watermarks in software interfaces to facilitate tracking of piracy sources.

Design Copyright Registration

It registers copyrights for industrial designs such as the appearance of PV power plants and the shape of energy storage systems to prevent appearance infringement.

Risk Early Warning and Emergency Response

Infringement Monitoring System

It deploys a patent search system to monitor the patent dynamics of competitors and industry technology routes in real time.

It uses crawler technology to monitor infringing products on e-commerce platforms and at exhibitions, such as counterfeit PV brackets.

Emergency Response Mechanism

It formulates the Intellectual Property Management System, clarifying processes such as infringement evidence collection, lawyer's letter issuance, and administrative complaints.

For major infringement incidents (such as core technology leakage), it activates a "circuit breaker mechanism", suspends the permissions of personnel with access to secrets, and reports to the police.

SAFEGUARDING INFORMATION SECURITY

Building a Multi-Level Technical Protection System

Strengthening Network Security Infrastructure

It deploys industrial-grade firewalls, intrusion detection systems (IDS/IPS), and Web application firewalls (WAF) to build a in-depth defense system against external cyber attacks (such as APT attacks and ransomware).

It adopts a zero-trust architecture to dynamically verify devices, user identities, and access permissions, reducing the risk of internal unauthorized access.

Data Encryption and Transmission Security

It implements transmission encryption (such as TLS/SSL) and storage encryption (such as AES256) for core data including PV tracker design drawings and energy storage system R&D codes to ensure the security of the entire data life cycle.

It uses transparent encryption and decryption technology to protect sensitive files without employees' awareness, preventing leakage through USB drives, cloud drives, and other channels.

Access Control and Permission Management

It assigns access permissions based on roles (RBAC), sets high-level permissions for departments such as finance and R&D, and restricts low-permission users from accessing core data.

It implements multi-factor authentication (MFA), combined with biometrics or hardware keys, to enhance account security.

Improving Information Security Management System

Classified and Graded Data Protection

It formulates differentiated protection strategies based on data sensitivity (such as public information, internal information, sensitive information, and confidential information), and implements strict control over confidential data such as design drawings and customer information.

Risk Assessment and Emergency Response

It regularly conducts penetration testing and vulnerability scanning to identify and fix system vulnerabilities, and generates risk assessment reports to submit to the management.

It establishes emergency plans, clarifies event classification, response processes, and recovery strategies, and organizes at least one cross-departmental emergency drill (such as simulating a ransomware attack) every year.

Supply Chain Security Management

It conducts security audits on overseas suppliers and partners, signs data protection agreements, and clarifies security responsibilities in the supply chain.

It introduces blockchain technology to trace the source of key components and ensure supply chain transparency and traceability.

Division of Information Security Management Responsibilities of Jiangsu EverShine Energy Technology Co., Ltd.

Director of Information Technology Department	Responsible for leadership and ensuring the company establishes an effective information security management system.
Supervisor of Basic Operation and Maintenance	Responsible for convening and handling information security incidents and ensuring the smooth completion of all tasks.
Directors and Managers of All Departments	Responsible for the implementation and monitoring of information security management systems within their respective departments.
Users	Use hardware and software resources in a standardized and reasonable manner, comply with the company's information security management system, and report to the Information Technology Department when information security issues occur.

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