

2024

# Environmental, Social and Governance Report





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# About the Report

## Reporting Scope

The Report is the second *Environmental, Social and Governance Report* (hereinafter referred to as "the Report" or "ESG Report") issued by SolarSpace Technology Co., Ltd. and its subsidiaries (hereinafter collectively referred to as "SolarSpace," "the Company," "we," or "us"), presenting the Company's performance in environmental, social, and governance matters. Unless otherwise stated, the scope aligns with that of the consolidated financial statements in the prospectus of SolarSpace Technology Co., Ltd.

## Reporting Period

The Report is an annual report, covering the period from January 1, 2024, to December 31, 2024 (hereinafter referred to as the "Reporting Period"). To enhance the comparability and completeness of the report, certain content extends beyond the aforementioned time frame.

## Basis of Preparation

This report has been prepared in accordance with the *Environmental, Social and Governance Reporting Guide* in Appendix C2 to the *Rules Governing the Listing of Securities* published by the Stock Exchange of Hong Kong Limited and refers to the Global Reporting Initiative (GRI) *Sustainability Reporting Standards* (2021 edition) (referred to as the "GRI Standards") and the United Nations Sustainable Development Goals (SDGs).

## Assurance of Reliability

The Company affirms that the Report contains no false records, misleading statements, or material omissions. The Board of Directors assumes responsibility for the authenticity, accuracy, and completeness of its content. The Report was approved by the Board of Directors on 9 May, 2025, following confirmation by the Strategy and Sustainable Development Committee.

## Access to the Report

The Report is available in both Chinese and English versions for readers' reference. In consideration of environmental protection, we recommend reading the electronic version of the report, which can be accessed on the [company's official website](#).

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## Data Description

The data and cases presented in the Report are sourced from the Company's original operational records or financial statements. All financial data disclosed herein are denominated in RMB. In the event of any discrepancy between the financial data disclosed in the Report and the Company's annual report, the annual report shall take precedence.

### Company Names Referenced in the Report

Full Legal Company Name	Company Short Name
SolarSpace Technology Co., Ltd.	SolarSpace
Solarspace New Energy (Xuzhou) Co., Ltd.	Solarspace Xuzhou and Tongshan Bases
SolarSpace Technology (Xuzhou) Co., Ltd. (formerly Jiangsu Yuhui Photovoltaic Technology Co., Ltd.)	Yuhui Photovoltaic, Peixian Base
Jiangsu Longheng New Energy Co., Ltd.	Jiangsu Longheng and Suqian (Cell) Base
SolarSpace Technology (Suqian) Co., Ltd. (formerly Jiangsu Longjia New Energy Co., Ltd.)	Jiangsu Longjia and Suqian (Module) Base
Solarspace New Energy(Chuzhou) Co., Ltd.	Solarspace Chuzhou, Chuzhou Base
Solarspace Technology (Laos) Sole Co., Ltd.	Solarspace Laos, Laos Base



## Chairman's Statement

As human civilization stands at a historic turning point in the energy revolution, this transformation is reshaping the industrial landscape with unprecedented depth and breadth. In the new normal where the vision of carbon neutrality intersects with industrial cycle fluctuations, SolarSpace remains committed to its mission of 'building a sustainable low-carbon world,' overcoming technological barriers, fostering ecological win-win outcomes, and grounding itself in responsibility, thereby forging strategic resilience that transcends cycles amid the waves of change.

**In the face of structural adjustments in the Photovoltaic industry,** we clearly recognize that cyclical fluctuations serve as a crucial test of an enterprise's core competitiveness. Amid the complex challenges of structural overcapacity and overlapping international trade barriers, we have established a comprehensive development model based on "technology-driven + global deployment + value symbiosis," creating an open and symbiotic industrial ecosystem that enables us to advance resiliently in adversity.

**In advancing our globalization strategy, we are steadily expanding our overseas presence.**

Confronted with intensified trade barriers against China's Photovoltaic industry and increasingly fierce competition in overseas markets, we have reinforced our overseas capacity layout and market expansion, achieving an initial transition from "Made in China" to "Global Intelligent Manufacturing," thereby enabling us to overcome escalating trade barriers. In response to the challenges of sustainable development, in 2024, SolarSpace established the SEED ESG strategy—'Zhong' representing integrity and virtue, and 'Run' symbolizing nurturing and enduring brilliance. This strategy concentrates on four key domains: Superiority, Environment, Empowerment, and Discipline. It prioritizes the sustainable development of products, environment, culture, and the value chain, driving green transformation through innovation, enabling social value through responsibility, and partnering with value chain stakeholders to illuminate a new future for sustainable development.

**Throughout the journey of navigating industry cycles,** we have achieved outstanding results. We have consistently maintained a leading global position in the photovoltaic cell sector, securing the top spot among professional manufacturers with an 18.3% market share. While concentrating on the photovoltaic cell sector, we have vertically expanded into the photovoltaic modules field and have been repeatedly recognized by Bloomberg New Energy Finance as a Tier 1 global photovoltaic module manufacturer. Our production bases have received

multiple provincial honors, including designation as one of the 'First Batch of Provincial Manufacturing Leading Enterprises' and recognition as a 'Jiangsu Province Green Factory'. These milestones, embodying the core values of SolarSpace, represent not only the collective wisdom and dedication of all our employees but also stand as a strong testament to our commitment to empowering the industry's future through technological innovation.



**In the great journey of the energy revolution, we are committed to collaborating with global partners, using technological innovation as our pen, green development as our ink, and responsible governance as our inkstone, to jointly compose a new chapter in humanity's sustainable development, transforming every ray of sunlight into green momentum that drives the advancement of human civilization.**



Chairman of SolarSpace Technology Co., Ltd.

Long Daqiang



# Annual Feature:

## SolarSpace's Sustainable Development Journey, Illuminating a Low-Carbon Future for the Photovoltaic Industry

Since its inception, SolarSpace has consistently upheld the mission of 'building a sustainable low-carbon world,' deeply engaging in the photovoltaic industry and advancing the profound integration of technological innovation with green practices. We have achieved significant progress in energy transition, ecological governance, and educational empowerment, contributing SolarSpace's efforts to the global carbon neutrality objective.



**Upholding the principle of integrating business responsibility, we are building a new low-carbon, mutually beneficial ecosystem.**

SolarSpace will be driven by innovation and founded on responsibility, collaborating with global partners to provide greater 'green momentum' for energy transition, ecological governance, and human well-being, collectively advancing towards a sustainable future.

### Entering a new chapter of sustainable development —driven by innovation, contributing to the green power of our era

#### Multiple land uses, coordinated development

##### Quwo Zijinshan 104.4MW agrivoltaics project

SolarSpace constructed a **104.4MW** agrivoltaic photovoltaic power station for Shanxi Huaneng, with an average annual power generation of **140 million kWh**, saving **11,420 tons** of standard coal and reducing carbon dioxide emissions by **47,600 tons** (equivalent to planting **2.61 million** trees). The project adopts a 'photovoltaic installation above, agriculture below' development model, achieving efficient land resource utilization and facilitating the synergistic development of agriculture and new energy.



#### Photovoltaic Desertification Control

##### An Ecological and Economic Win-Win – Xilingol Desert Comprehensive Management Project

SolarSpace participates in the Xilingol Desert management project in Inner Mongolia, implementing a three-dimensional model of 'power generation on panels, sand fixation between panels, and planting beneath panels.' This approach has restored **1,500 mu** of desert, generated **70 million kWh** annually, saved **5,600 tons** of standard coal, and reduced carbon dioxide emissions by **23,000 tons** (equivalent to planting **1.26 million** trees). The project explored an innovative photovoltaic desertification control model, achieving a dual benefit of ecological preservation and economic gain.



#### Green Energy Empowering Education

##### The Shanghai Photovoltaic Kindergarten Project

SolarSpace installed photovoltaic modules on the rooftops of several kindergartens in Fengxian District, Shanghai, with a total installed capacity of **510KW** and an annual power generation of **650,000 kWh**. This initiative saved **375 tons** of standard coal and reduced carbon dioxide emissions by **650 tons** (equivalent to planting **35,000** trees), effectively supporting energy conservation and emission reduction efforts, thereby protecting a blue sky for children. Additionally, the project enhances the learning environment by regulating indoor temperatures, thereby embedding green principles within the educational framework.



'Zhong' signifies the establishment of virtue, while 'Run' represents nurturing and enduring brilliance. SolarSpace steadfastly upholds the principle of sustainable development, concentrating on excellence in new energy, ecological green energy, value empowerment, and governance enhancement. The Company supports the achievement of the 'dual carbon' goals, creates social value, advances in step with the times, and drives the photovoltaic industry toward a low-carbon future.



# About SolarSpace

## Company Overview

SolarSpace Technology Co., Ltd. was founded in 2011, with its headquarters located in Xuzhou, Jiangsu Province. The Company consistently adheres to the corporate vision of 'Bringing a Better Life through Photovoltaics,' following a path of technological research and development innovation. It promotes technological upgrades and product enhancements, is committed to providing efficient and reliable photovoltaic products to global customers and supports the development of green energy and the achievement of carbon neutrality goals.

### Development History of SolarSpace

#### Startup Period – Strategic Deployment in the Solar Cell Sector

- 2010**
  - The predecessor of SolarSpace, Zhongyu Photovoltaic, was established
  - Engaged in the research, development, production, and sales of photovoltaic solar cells
- 2011**
  - Construction of the Peixian Base
  - photovoltaic solar cells officially commenced production
- 2016**
  - Phase I of Zhonghui commissioned; total solar cell production capacity surpassed 1 GW

#### Brand Establishment – Dedicated to Monocrystalline Solar Cell Manufacturing

- 2019**
  - Transition to large-scale production of monocrystalline solar cells
  - According to PV Infolink statistics, photovoltaic solar cell shipments ranked among the top five global photovoltaic solar cell manufacturers

#### Strategic Presence – Investment and Construction of Large-Size Solar Cell Production Capacity

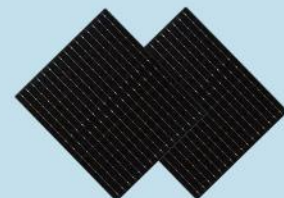
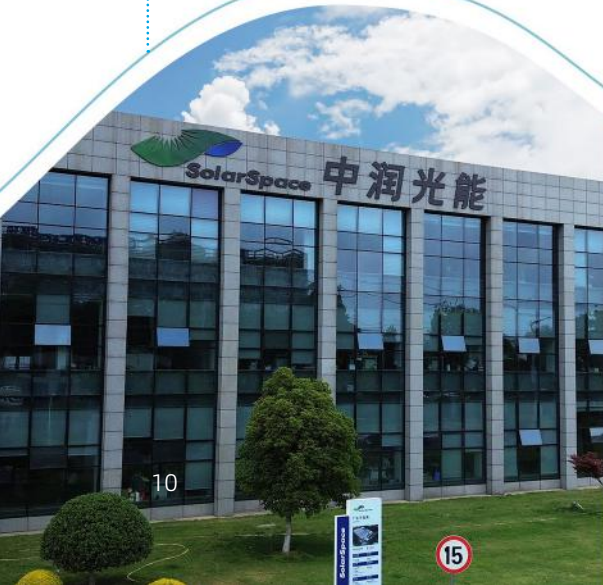
- 2020**
  - Investment in and construction of large-size monocrystalline solar cell production base: Longheng Phase I

#### Exploring Transformation – Initiation of Photovoltaic Module Business

- 2021-2022**
  - A series of pre-IPO investments, with a total investment amounting to approximately RMB 2,364 million

#### Rapid Development – Accelerated Expansion of Solar Cell Production Module Taking Shape

- 2023**
  - Solarspace Chuzhou Solar Cell Project commenced production, achieving photovoltaic solar cell conversion efficiency exceeding 25.5%, thereby maintaining industry leadership
  - The overseas production base was commissioned in 2023
- 2024**
  - Overseas photovoltaic cell production capacity exceeds 15 GW, with revenue from countries and regions outside China accounting for over 30% of total revenue
  - The Company was recognized among the "Top 500 Global New Energy Enterprises in 2024" by the Taiyuan Energy Low Carbon Development Forum, and was also named one of the "Top 500 Chinese Manufacturing Enterprises" by the China Enterprise Confederation and the China Enterprise Directors Association





## Business Presence

As a leading photovoltaic manufacturer in the industry, SolarSpace continuously delivers high-value photovoltaic products and service solutions to customers worldwide. The Company's core business encompasses the research, development, production, and sales of high-efficiency solar cells and modules, alongside the expansion of Solarspace Wanjia's distributed power station operations. According to PV InfoLink<sup>1</sup> statistics, Solarspace ranked second globally in solar cell shipments in 2024.

<sup>1</sup> PV InfoLink is a globally authoritative analysis and consulting institution in the photovoltaic sector, primarily conducting market research in Asian countries. It provides real-time photovoltaic market information, price tracking, market analysis reports, and other services, and is recognized by the industry as a key source of information.

**Domestic and overseas production bases**

**3**

major overseas warehouses

**4**

major marketing centers

**1000+**

cooperative customers\*

## Product Overview

### High-efficiency Solar Cells

- ◆ Thinner wafer applications
- ◆ Higher cell conversion efficiency
- ◆ Better low light characteristics
- ◆ Better temperature coefficient
- ◆ Lower cell degradation
- ◆ Better mechanical properties



### N-type Modules

- ◆ Higher power output
- ◆ Ultra-low LID/LeTID attenuation
- ◆ Better product reliability
- ◆ Excellent PID resistance
- ◆ Better bifacial performance
- ◆ Lower system LCOE



### SolarSpace Regional Presence Map

**Production base**

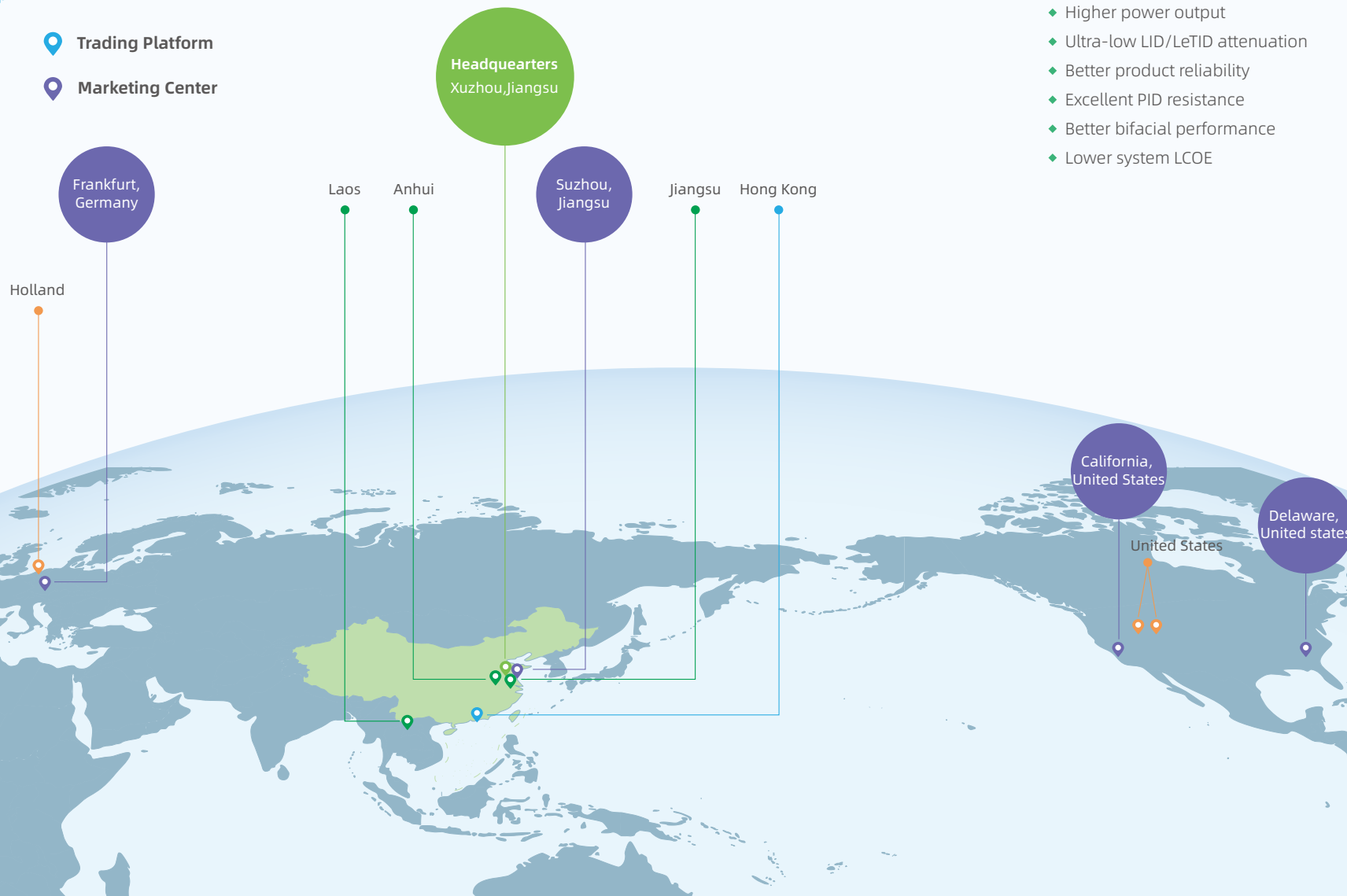
**Trading Platform**

**Overseas Warehouse**

**Marketing Center**

### \*Business operations cover

China	France
Germany	United Kingdom
United States	Thailand
India	Vietnam
Canada	Jordan
Mexico	Turkey
Korea	Tunisia
Italy	Armenia
.....	





# Sustainable Development Highlights

## Excellence in New Energy



The Group conducted

**7**  
internal audits

**5**  
external audits

The Group and all production bases have achieved ISO 9001 Quality Management System certification

**100%**

The annual customer satisfaction survey covers customers representing 80% of the Company's sales revenue

**80%**

with customer satisfaction exceeding

**90%**

In 2024, R&D investment totaled

**289.4** million **399** personnel

R&D personnel

All suppliers have signed the *Supplier Trade Security Commitment*, *Supplier Environmental, Occupational Health and the Safety Agreement*, and the *SolarSpace Partner Code of Conduct*

**100%**

ESG training was provided to over

**100**

suppliers to emphasize the importance of due diligence across the supply chain

## Ecological Green Energy



**Incorporate climate change into the ESG governance, establish a multi-tiered governance structure for climate change, and systematically identifying climate physical risks, transition risks, and opportunities**

The Group and 5 production bases have obtained ISO 14001 Environmental Management System certification

**6**

The Group and 2 production bases have achieved ISO 50001 Energy Management System certification

**3**

and the Chuzhou base, Jiangsu Longheng, and Yuhui Photovoltaic production bases have been awarded Green Factory Certification

**3**

Renewable energy consumption reached

**21.7624** million kWh

with the proportion showing an upward trend over the past three years.

A total of

**19**

environmental management training sessions were conducted

with nearly

**7,000**

participants involved

## Value Creation



The employee training coverage rate reached

**93%**

with a cumulative training duration of

**88,356** hours

Occupational health and safety objectives at all production bases have been met

**100%**

The Group and 5 production bases have obtained ISO 45001 Occupational Health and Safety Management System certification

**6**

**100%**

of operational sites have conducted employee health and safety risk assessments

**562**

sessions of three-level safety education for new employees

The cumulative training duration

**13,488** hours

participants

**11,100**

sessions of specialized occupational health and safety training

**378**

The cumulative training duration

**378** hours

participants

**129,638**



Participation in flood relief and educational revitalization initiatives in Laos

## Governance-Driven Excellence



Female Directors constitute

**33%**

of the Board of Directors

Conducted over

**50**

on-site investigations with existing shareholders

responded to more than

**600**

investor inquiry calls

Achieved a **100%** signing rate of the *Integrity Commitment Letter* among newly hired employees and key personnel, and a **100%** signing rate of the *SolarSpace Partner Code of Conduct* among partners.

litigation cases related to violations of business ethics or unfair competition

**0**

Business ethics training covered

**100%**

of Directors and Management

major information security incidents

**0**

Revised nearly **50** departmental policies and introduced approximately **10** new departmental management policies



## 2024 Honors and Awards



Dun & Bradstreet ESG Excellence Practice Award



2024 Dual-Carbon Model Enterprise Award



2024 Responsible Brand Award



2024 Jiangsu Unicorn Enterprise



2024 ESG Excellence Practice Award



Top 500 New Energy Enterprises in China 2024



Top 100 Global Photovoltaic Brands 2022-2024 (PVBL)



Key Internationally Renowned Brand Cultivated and Developed by Jiangsu Province



National High-Tech Enterprise

2024全球新能源企业500强		
排名	公司	国家/地区
114	江苏中润光能科技股份有限公司	中国

Top 500 Global New Energy Enterprises

In 2024, the Company actively advanced ISO management system certifications, achieving ISO 9001 Quality Management System, ISO 14001 Environmental Management System, ISO 50001 Energy Management System, and ISO 45001 Occupational Health and Safety Management System certifications.

### The status of product carbon footprint certifications is as follows:

During the Reporting Period, SolarSpace conducted product carbon footprint assessments to precisely quantify carbon emissions throughout the product lifecycle. We engaged third-party certification bodies to rigorously verify the carbon emissions across the entire lifecycle of our products. As of the end of the Reporting Period, the Company's solar cell and module products have obtained a total of 17 French carbon footprint certifications, 13 LCA certifications, and 6 International Environmental Product Declaration (EPD) certifications.

#### As of the end of the Reporting Period

the Company's solar cell and module products have obtained a total of

17

French carbon footprint certifications

13

LCA certifications

6

international Environmental Product Declaration (EPD) certifications

#### Specifically:

- 15 module products from the 183N and 210R series were awarded carbon footprint certificates issued by Certisolis, in compliance with the ECS-PPE2 standard.
- 2 module products from the 183N series have been awarded carbon footprint certificates issued by Certisolis, in accordance with the ECS-PPE2 V2-BV batiment standard.
- 5 module products and eight solar cell products have obtained LCA certification issued by the French Environment and Energy Management Agency (ADEME).
- 3 module products and 3 solar cell products have received EPD certification from the National Inspection Group.

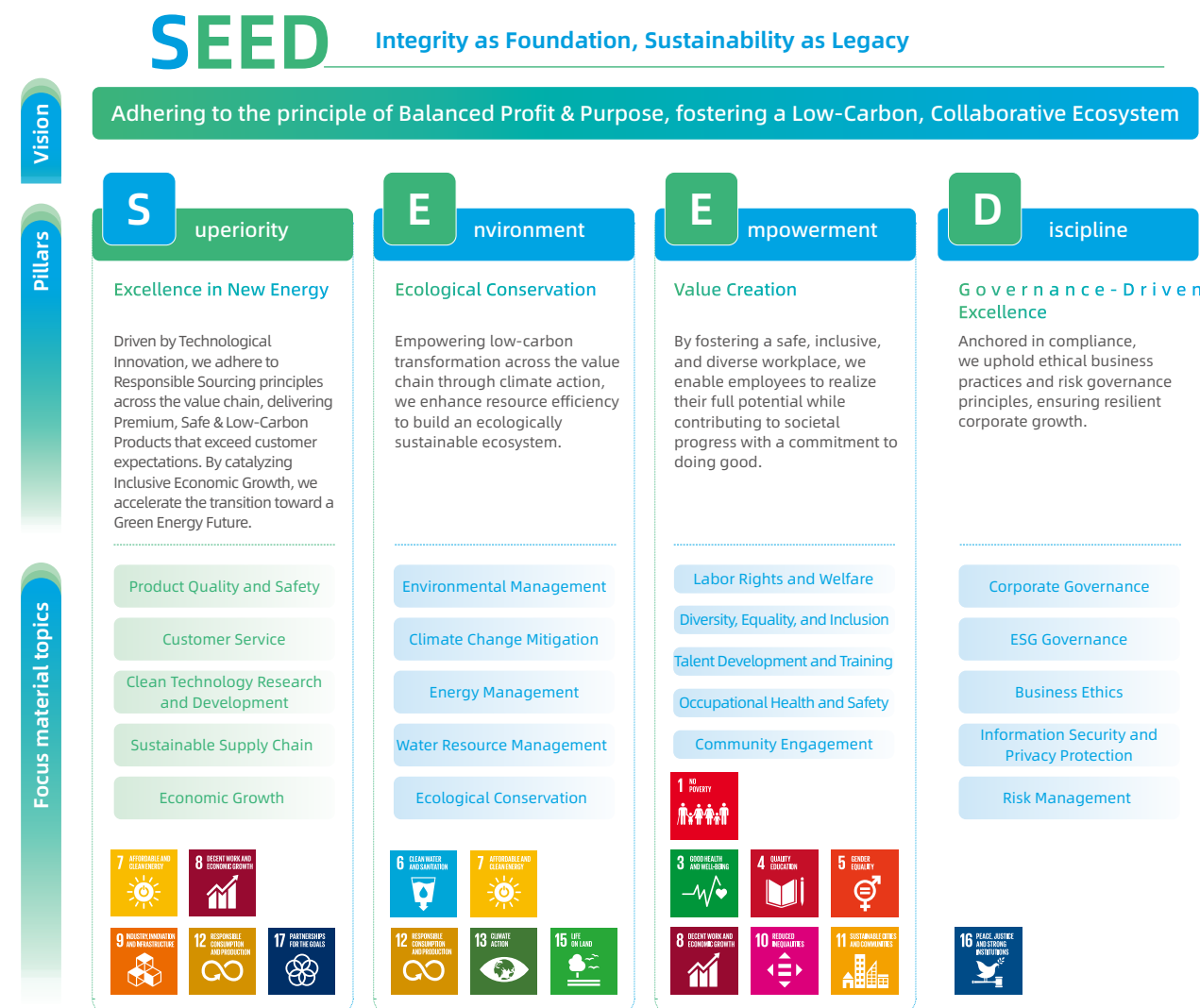


# Sustainable Development Governance

SolarSpace is committed to advancing sustainable development both globally and within the company by integrating environmental, social, and governance principles into corporate management and operations. The company continuously optimizes its ESG Governance Framework and management systems, actively listens to and addresses stakeholders' feedback, and employs robust ESG management as the approach and pathway to achieving sustainable development goals.

## Sustainable Development Strategy

SolarSpace is committed to continuously enhancing its ESG performance and actively advancing the sustainable development of the Company's business and society. By integrating sustainability issues with SolarSpace's business strategy, we have developed the SolarSpace SEED ESG Strategy – Integrity as Foundation, Sustainability as Legacy – focusing on four key areas: Superiority, Environment, Empowerment, and Discipline, to establish and continuously refine the ESG responsibility framework.

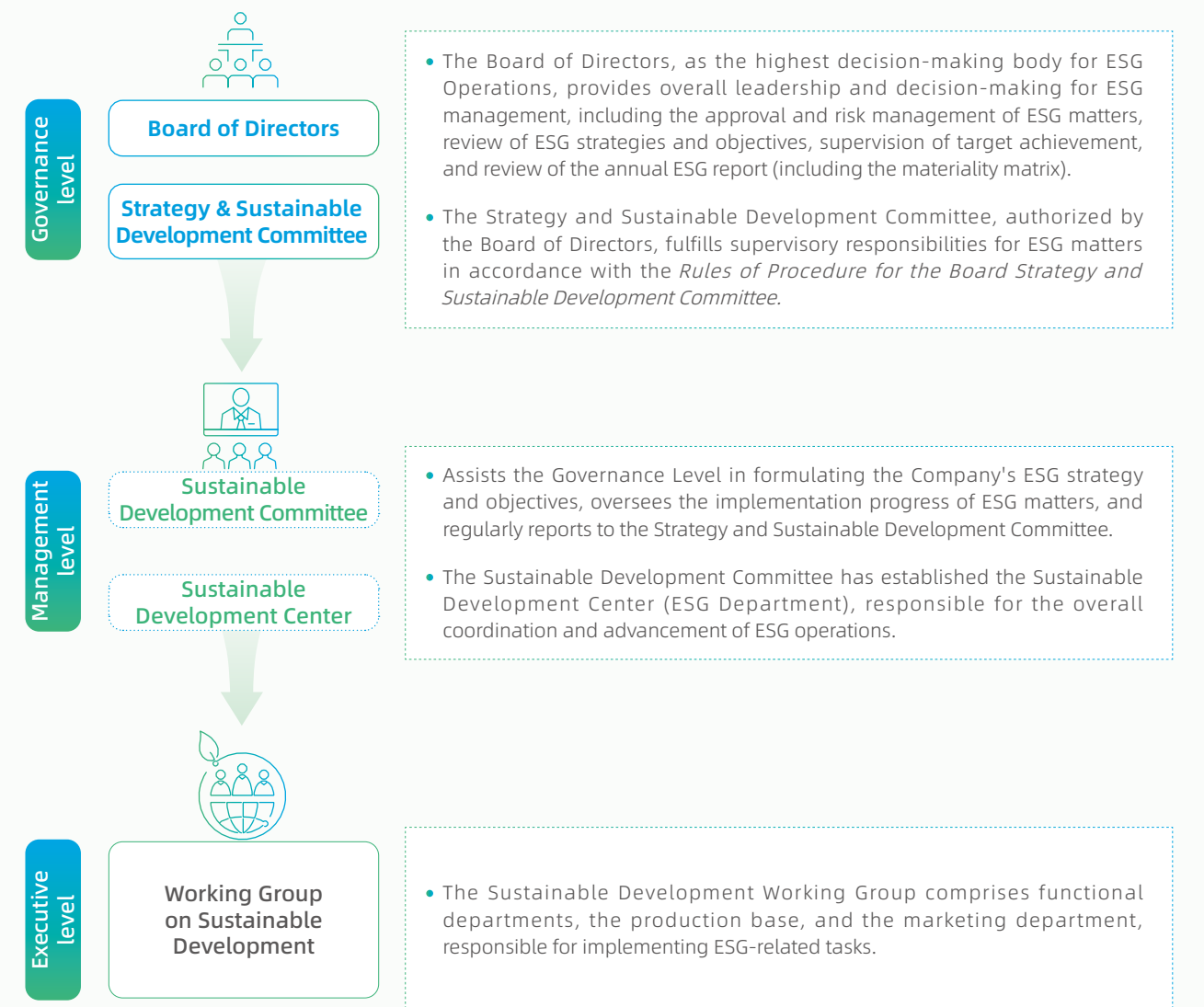


In line with the ESG Strategy, we are formulating work policies and assigning responsible personnel for each material topic. Additionally, we are developing measures to implement action plans and establish management indicators. Furthermore, we plan to conduct regular audits to ensure that all production and operational activities adhere to our rigorous standards in environmental protection, social responsibility, and corporate governance.

# Sustainable Development Governance

SolarSpace has established the *Environmental, Social and Governance (ESG) Management System* and the *Board of Directors Strategy and Sustainable Development Committee Working Rules* to continuously enhance the ESG Governance Framework and ensure the comprehensive implementation of the sustainable development strategy across all levels of the Company. SolarSpace's ESG Governance Framework is structured into governance, management, and execution levels, each with clearly defined responsibilities, close coordination, and regular reporting to ensure the effective implementation of sustainable development initiatives.

## Sustainable Development Governance Framework





SolarSpace continuously enhances ESG awareness among all employees, including Directors, Supervisors, and senior management. In 2024, we conducted ESG-related training for all employees. At the beginning of 2025, the Company's Directors participated in training on the Hong Kong Listing Rules and their related responsibilities, recognizing that the Hong Kong Stock Exchange requires Directors to possess relevant ESG skills and competencies to fully understand and evaluate the impact of ESG-related risks and opportunities on the Company, and to oversee the strategies developed to address these ESG-related risks and opportunities.

### ESG awareness and competency training



In September 2024, the Company convened the SolarSpace Sustainable Development Kick-off and Training Meeting, attended by senior management, department heads, production base leaders, and relevant personnel, to define strategic and strengthen ESG awareness and consensus on sustainable development.

In October 2024, the Company delivered ESG Awareness and Competency Training to all employees in the Marketing and Sales Departments, covering topics such as the ESG governance framework, the role and impact of ESG in marketing, key aspects of sustainable supply chain management, and a review of the 2023 ESG operations achievements.

Through the two training sessions, the Company's senior management, department and base leaders, as well as employees from sustainability-related departments, have gained a comprehensive understanding of the close integration between ESG concepts and business practices. This has further encouraged relevant departments to actively implement ESG principles in their daily operations and effectively reinforced the practical execution of ESG Operations.



### Sustainable supply chain project kick-off meeting



In October 2024, the Company held the 2024 Supply Chain Due Diligence Project Kick-off and Training Meeting for employees from supply chain-related departments. During the kick-off meeting, we communicated each department's future work plans to employees and provided training on relevant workflows to ensure that employees acquire the necessary knowledge and skills for the project, thereby facilitating the steady advancement of supply chain due diligence efforts.



### ESG strategy kick-off training



In November 2024, the Company convened the 2024 ESG Strategy Kick-off and Training Session for all senior executives and key personnel involved in ESG Operations. During the ESG Strategy Kick-off Training, we communicated to participants the latest international ESG trends and the Company's ESG development strategy, and provided a detailed explanation of each department's future work plans. This training enhanced Management's understanding of the strategic value of ESG and strengthened the Company's efficient cross-departmental collaboration mechanisms, thereby laying a solid foundation for the swift advancement of ESG Operations.



## Stakeholder Engagement

SolarSpace is dedicated to maintaining proactive communication and strong relationships with all stakeholders, ensuring their meaningful engagement through regular dialogue and collaboration, thereby guaranteeing the effectiveness of ESG management.

To engage more effectively with these stakeholders, we continuously expand communication channels, providing convenient platforms for all parties to ensure that their views and the Company's information are communicated promptly and accurately.

Key Stakeholders	Areas of Concern	Communication Methods
<b>Shareholders and Investors</b> 	Corporate Governance	Information Disclosure
	Risk Management	Shareholders' Meeting
	Business Ethics	Financial Report
	Economic Growth	ESG Report
	Clean Technology Research and Development	Investors Communication Meeting
	Product Quality and Safety	Investors Hotline
	Environmental Management	Conference Call
<b>Customer</b> 	Product Quality and Safety	Online Meeting
	Clean Technology Research and Development	New Product Launch
	Information Security and Privacy Protection	Product Exhibition
	Customer Service	Product After-Sales Service
	Business Ethics	On-Site Customer Research
	Environmental Management	Customer Satisfaction Survey
		Routine Maintenance/Visit Interaction
<b>Employee</b> 	Occupational Health and Safety	Staff Representative Assembly
	Labor Rights and Welfare	Employee Activities
	Talent Development and Training	Employee Training
	Industry Development and Cooperation	Employee Satisfaction Survey
	Diversity, Equality, and Inclusion	Employee Suggestion Box
		Employee Forums / Trade Union



Key Stakeholders	Areas of Concern	Communication Methods
<div>Government and Regulatory Authorities</div> <div></div>	Corporate Governance	Supervision and Inspection
	Business Ethics	
	Information Security and Privacy Protection	Meetings and Communication
	Product Quality and Safety	
	Occupational Health and Safety	Policy Enforcement
	Community Engagement	
	Climate Change Mitigation	Information Disclosure
	Environmental Management	
	Energy Management	On-site Investigation
	Water Resource Management	
	Ecological Conservation	
<div>Suppliers and Partners</div> <div></div>	Business Ethics	Supplier Audits and Training
	Industry Collaboration and Development	
	Labor Rights and Welfare	Partner Code of Conduct
	Product Quality and Safety	
	Sustainable Supply Chain	On-site Investigation
		Industry Exchange Forums
<div>Community and the Public</div> <div></div>	Community Engagement	Community volunteer activities
	Environmental protection	
	Climate Change Mitigation	Public welfare and charitable projects
	Water Resource Management	
	Ecological Conservation	Information Disclosure
	Environmental Management	
<div>Media</div> <div></div>	Business Ethics	Telephone and email communication
	Economic Growth	
	Community Engagement	Media interviews
	Product Quality and Safety	
	Clean Technology Research and Development	Information Disclosure
	Environmental Management	
	Climate Change Mitigation	Industry conferences and exhibitions

## Double Materiality Assessment

SolarSpace fully acknowledges the significance of ESG to the Company and its Stakeholders, regularly identifying and assessing material ESG issues relevant to the Company. The Company identifies potential material ESG issues by considering changes in internal and external environments, referencing regulatory requirements, industry standards, and other pertinent information. We identify the Company's material issues by conducting surveys with Stakeholders, including Company Management, Employees, Shareholders and Investors, Government and Regulatory Bodies, Customers, Suppliers and Partners, Industry Associations, Communities and Non-Governmental Organizations, Media, and the Public, supplemented by expert opinions. In 2024, building upon previous years, we identified a total of 20 material ESG issues.

We follow the principle of double materiality assessment, incorporating both the financial materiality of each issues and its environmental, social, and economic impact materiality. Taking into account business conditions, we conduct a comprehensive analysis of the financial and impact materiality of each ESG issues, resulting in a materiality matrix that serves as a reference for the Company's prioritization of issue management.



SolarSpace Double Materiality Matrix

<div>Environmental</div> <div></div> <ul style="list-style-type: none"><li>Environmental Management</li><li>Climate Change Mitigation</li><li>Energy Management</li><li>Water Resource Management</li><li>Ecological Conservation</li></ul>	<div>Social</div> <div></div> <ul style="list-style-type: none"><li>Product Quality and Safety</li><li>Customer Service</li><li>Clean Technology Research and Development</li><li>Sustainable Supply Chain</li><li>Labor Rights and Welfare</li><li>Diversity, Equality, and Inclusion</li><li>Talent Development and Training</li><li>Occupational Health and Safety</li><li>Community Engagement</li></ul>	<div>Governance</div> <div></div> <ul style="list-style-type: none"><li>Corporate Governance</li><li>ESG Governance</li><li>Business Ethics</li><li>Information Security and Privacy Protection</li><li>Risk Management</li><li>Economic Growth</li></ul>
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SolarSpace Material Issues Table<sup>2</sup>

<sup>2</sup> Bolded issues are identified as Double Materiality Issues.



# 01

## Excellence in New Energy

SolarSpace, driven by technological innovation and committed to responsible procurement, delivers outstanding, safe, and low-carbon products to customers, fostering economic growth and jointly advancing towards a new era of green energy. As a professional developer and innovator of photovoltaic products, we continuously advance the research and application of clean technology, striving to lead industry development through technological innovation.

The United Nations Sustainable Development Goals (SDGs) relevant to this chapter include:



### Sustainable Development Highlights and Achievements



- We conducted **7** internal audits and **5** external audits of the Quality Management System across the entire group; all production bases have been certified under the ISO 9001 Quality Management System
- The annual customer satisfaction survey covers customers representing **80%** of the Company's sales revenue, with customer satisfaction exceeding **90%**
- In 2024, R&D investment totaled **289.4 million**, with **399** R&D personnel
- All suppliers (**100%**) signed the *Supplier Trade Security Commitment*, *Supplier Environmental, Occupational Health and Safety Agreement*, and the *SolarSpace Partner Code of Conduct*
- We provided ESG Training to more than **100** suppliers, reinforcing the importance of due diligence throughout the supply chain



# 1.1 Product Safety and Quality

SolarSpace consistently regards product safety and quality as the foundation of corporate development, adhering to the most stringent quality control standards and procedures to ensure that every product meets or exceeds customer expectations.

The Company complies with environmental protection, safety, and hygiene regulations, enhancing the control of hazardous substances during product design and manufacturing to maximize product safety. We strictly adhere to the European Union's *Restriction of Hazardous Substances in Electrical and Electronic Equipment* (RoHS) and the *Registration, Evaluation, Authorization and Restriction of Chemicals* (REACH) standards, with certification issued by the independent third party SGS.



## Quality Management System

The Company strictly adheres to the *Product Quality Law of the People's Republic of China*, the *Standardization Law of the People's Republic of China*, as well as the *Law on Industrial Processing of the Lao People's Democratic Republic* and other relevant product quality and safety policies and standards in its operating locations. It has developed a series of institutional documents, including the Quality Management Manual and Accident Management procedures, establishing a standardized and regulated product Quality Management System covering five key areas: raw material control, process control, reliability monitoring, shipment control finished goods control, and product after-sales service. As of the end of the Reporting Period, the Group and all our production bases have been certified under the ISO 9001 Quality Management System.

### Raw Material Control

- Supplier Source Management
- Raw Material Technical Inspection Standard Control
- Sorting Equipment Enhances Control Efficiency
- Traceability mechanism for feedback of substandard raw materials

### Process Control

- Confirmation of Management Regulations
- Multiple Process Controls and Quality Inspections
- Unified Quality Control Process (QCP)
- Real-time push of SPC data anomalies
- CPK stabilization process capability analysis
- Highly accurate MES traceability

### Reliability Monitoring

- High-frequency monitoring programme covering every BOM set
- Industry-leading Reliability Monitoring Frequency

### Shipment Control Finished Goodscontrol

- Finished products off the line to shipment through a full range of inspection and confirmation, minimizing delivery risks and enhancing customer satisfaction.

### Product After-sales Service

- Conduct special analyses of customer complaints, give rectification measures, and formulate corresponding 8D reports.

To ensure the effectiveness of the Company's Quality Management System, we conduct regular quality management audits and undergo external management system audits and various specialized inspections, continuously enhancing the governance and management system. We place great emphasis on issues identified during audits and inspections, requiring timely rectification to address all findings. During the Reporting Period, the Group conducted seven internal audits and five external audits of the Quality Management System. Throughout the year, all Production bases and the Group completed Quality Management System certification audits. All items identified as having improvement potential during inspections have been fully optimized and verified as closed.

## Product Life Cycle Management

The Company has established and continuously refined the product life cycle management process, encompassing comprehensive product quality management from the production source to the end user. Key product quality indicators—including finished product rework rate, inspection pass rate, and shipment readiness ratio—are established as performance metrics from the perspectives of product design, product testing, quality assurance, and performance. Regular quality performance evaluations are conducted to comprehensively improve product quality.

### Design Concept

- Using methods such as DFMEA, we thoroughly examine product failure modes with a strong emphasis on safety. During the product design phase, we take into account customers' performance requirements and the compatibility of components. Concurrently, we optimize material configurations, balancing material consumption with the effectiveness of the finished product, aiming to minimize resource waste and enhance resource utilization efficiency

01

### Product Testing

- Photovoltaic modules was rated "Best Performer" in product quality tests conducted by PVEL, an authoritative third-party testing laboratory
- We are granted with High Performance Achievement Award from the Renewable Energy Testing Centre (RETC), USA.

02

### Quality Assurance

- Regarding to modules, we provide customers with 3-6 months warranty, and also provide CID, LID, PID, LeTID, acetic acid resistance and other related reliability warranties according to customer requirements. Regarding to modules, we provide customers with at least 12 years of design, material and workmanship warranty, as well as 25 to 30 years of power warranty

03

### Performance

- The module products have passed the tests of IEC61215, IEC61730, IEC61701, IEC60068-2-68, IEC62716 and other international standards. The use of self-produced batteries with excellent module encapsulation technology makes the test attenuation much lower than the IEC standard.

04

Product Life Cycle Management





We continuously optimize quality management processes and reinforce product quality standards to ensure that every stage, from raw material procurement to finished product delivery, is subject to rigorous quality control. We rigorously uphold product quality standards by integrating real-time data monitoring with quality data analysis.

### Real-time Data Monitoring

- Quality boards are installed at the production site to collect quality data from each stage, enabling real-time monitoring of quality indicators (such as defect rate, production efficiency, and product pass rate), quality targets, and current progress.
- When monitored quality data exceeds the established tolerance limits or triggers specific quality standards (such as a high defect rate or significant production process variability), the system automatically issues an alert to prompt relevant personnel to take immediate corrective action.



### Quality Data Analysis

- Production data is statistically analyzed using control charts to identify potential quality issues and trends.
- Product quality inspection encompasses not only finished products but also raw materials and intermediate products. We have established a comprehensive defect traceability system to ensure that specific stages within the production process can be traced when issues occur.



## Enhancement of Quality Awareness

We regularly provide quality awareness training to employees to ensure that every operator is well-versed in quality standards. During the Reporting Period, we conducted inspection skills training for all quality department employees, including company quality standards training, general quality skills training, and on-site practical training.

### During the Reporting Period

more than  
**20**  
quality-related training sessions were conducted

covering over  
**400**  
participants

Assessment results indicate a  
**98%**  
pass rate among trainees



## 1.2 Customer Service

SolarSpace upholds a customer-centric service philosophy, guided by customer needs, and has established a comprehensive, multi-tiered service system to ensure prompt responses to customer requirements. We have established a specialized team that manages the entire customer service process, providing end-to-end follow-up services from pre-sales evaluation and in-sales tracking to after-sales support.

### Pre-sales Evaluation

SolarSpace strictly complies with the *Tendering and Bidding Law of the People's Republic of China* and other relevant local laws and regulations. The company has developed internal policies including the *Module Sales Management Process*, *Module Bidding Management Regulations*, *Module Customer Return Handling Management Regulations*, and *Module Order Review Process* to rigorously review all marketing activities, ensuring promotional content is compliant and free from exaggeration or false claims. We regularly conduct internal training sessions to educate employees on relevant laws, regulations, and compliance requirements, ensuring that they adhere to applicable rules during marketing activities.

#### Responsible marketing training case



SolarSpace provides compliance training on marketing-related laws and regulations to marketing personnel, including sales teams, marketing promotion teams, project leaders, and customer service staff.

The training covers legal interpretations related to marketing activities, including laws and regulations such as the Advertising Law, ensuring that employees fully comprehend the legal requirements of marketing activities upon completion, thereby safeguarding the legality and standardization of corporate communications.



Training site

We proactively conduct pre-supply research to identify customer risk points and concerns in advance, organizing the production base, product, and technical development departments to evaluate discrepancies and screen risk factors, thereby facilitating communication and coordination with customers. Furthermore, we monitor and enhance the new product introduction process through statistics on production base change requests, customer demand information, and client-side implementation, ensuring that products better meet customer requirements.



## Sales Follow-up

We continuously monitor product usage, respond promptly to customer inquiries, and provide recommendations for production launch. The Company has established comprehensive customer communication channels, gathering customer feedback through irregular customer meetings, quarterly review sessions, and annual customer satisfaction surveys, thereby maintaining constructive engagement with customers.

During the Reporting Period, the Company's customer service team conducted a total of 75 customer visits with cell clients, developing 17 domestic cell customers and 22 overseas customers. The team also conducted visits with module customers, serving 31 module clients and providing value-added services such as power station inspection and maintenance for the first time.

In terms of customer satisfaction, we adhere to the *Customer Satisfaction Management Procedure*, conducting surveys across dimensions including product electrical performance, appearance, packaging, logistics, cost-effectiveness, after-sales service, and technical support. The annual customer satisfaction survey covers customers representing 80% of the Company's sales revenue, achieving a satisfaction rate exceeding 90%.

90%

achieving a satisfaction rate exceeding



### Customer follow-up case

During regular client follow-ups, the management team of SolarSpace identified strong customer interest in technical exchanges and new product development. Accordingly, the Company's Technology Center responded promptly by actively preparing and developing product samples based on the half-cell passivation process.

Upon completion of the product samples, the Company promptly delivered them to the clients. This approach not only facilitates new product development through demand-side feedback but also further strengthens our communication and collaboration with customers.

## After-sales Tracking

The Company has established internal procedures, including the *Cell Customer Complaint and Return Handling Process*, *Module Customer Complaint Handling Management Regulations*, and *Module Returned Product Handling Management Regulations*, to respond to and resolve customer feedback promptly. Through internal product information investigations, root cause analyses, complaint review meetings, and the preparation of *8D Corrective and Preventive Action Reports*<sup>3</sup>, the Company ensures satisfactory after-sales product service for customers. We regularly provide professional training to the customer service team to ensure that customers receive expert and considerate service.

<sup>3</sup> A long-term, implementable improvement report issued in response to customer complaints.

### Customer return process enhancement training



In December 2024, SolarSpace conducted a training session titled *Standards for Completing the Customer Return Handling OA Process* for all members of the cell customer service team. The customer service supervisor thoroughly explained the key points for completing the online process and the required attachment checklist. Following the training, employees reported a substantial increase in work efficiency. This training aims to reduce the risk of process approval rejections and expedite the after-sales handling process on the client side.

The Company also offers technical support to new customers to reduce product damage caused by improper installation or usage. During the Reporting Period, to address the issue of reducing the product damage rate for new customers at the module level, we provided one-on-one technical support to new customers to lower the module installation damage rate and minimize customer losses. We conducted targeted knowledge-sharing sessions with customers covering the entire process of module receipt, transportation, storage, and installation to enhance customer satisfaction.

### Training on identification of module microcracks and fracture patterns resulting from external forces



During the Reporting Period, SolarSpace identified recurring challenges related to ambiguous attribution of module damage upon delivery during after-sales processing. Consequently, four module customer service engineers underwent training titled *Identification of Module Microcracks and Fracture Patterns Resulting from External Forces*. This training enabled employees to accurately identify product quality issues by analyzing damage patterns in conjunction with product characteristics and technical disclosure materials, master product quality identification techniques, and continuously improve to fulfill customer requirements.

## Customer Privacy Protection

We rigorously safeguard customer privacy, ensuring that customers retain control over their personal information, including rights to access, correct, delete, and transfer their data. We are committed to collecting only the customer data necessary to provide our services, thereby avoiding excessive collection of personal information. Additionally, we assign dedicated customer service representatives to each client and regularly cleanse communication group messages to prevent information leakage and protect customer privacy. For further details on information security and data privacy protection, please refer to the Information Security and Privacy Protection section.





# 1.3 Clean Technology Research and Development

## Improve an advanced R&D System

SolarSpace well aware that R&D innovation is the core driving force for the sustainable development of an enterprise. It continuously improves its R&D system, persistently explores product innovation and technological breakthroughs, and actively engages in industry exchanges to ensure that every technological innovation precisely aligns with market demands and leads industry development trends.

We attach great importance to product R&D and innovation, gradually expanding our focus from the R&D and manufacturing of PV cells to providing customers with PV modules. We are committed to continuously exploring more efficient and environmentally friendly energy solutions by gaining a deep understanding of our customers' needs.

2024

**289.4**million

R&D Investment

**2.6%**

of total revenue

**399**personnel

number of R&D personnel

[2024 SolarSpace R&D Innovation Performance Report](#)

The Company's R&D team is committed to delivering advanced technologies and highly customized solutions through innovation and precise engineering design, supporting customers in obtaining solutions that comply with current technical standards while accommodating future development requirements, thereby enhancing product competitiveness. We prioritize the capability development of our R&D team by regularly providing diverse professional training, aiming to cultivate a highly skilled and proficient R&D workforce.

### Cell principles training

During the Reporting Period, we conducted six training sessions on cell principles, covering topics such as the power generation principles of solar cells, cell structure, and fabrication processes. The training sessions reached 100 employees and demonstrated significant effectiveness; following the series, employees' comprehension of cell processes improved substantially.



Training site

During the Reporting Period, we completed the R&D project on PECVD polycrystalline silicon coating technology development and application, successfully advanced research on the dual-tunnel Poly process technology, and finalized the technology transfer. As a result, the mass production conversion efficiency of TOPCon cells improved by 0.08%.

## Green and Intelligent Process Engineering

### Low Carbon Products

SolarSpace actively supports the national "Dual Carbon" strategic objectives and is committed to providing customers with low carbon and environmentally friendly products and services. We conduct product carbon footprint assessments and facilitate the completion of third-party verification for Environmental Product Declarations (EPD) and Life Cycle Assessment (LCA) certifications, continuously enhancing the low carbon characteristics of our products.

As of the end of the Reporting Period, the Company had 17 products certified with the French Carbon Footprint, 6 products successfully completed third-party EPD verification, and 13 products obtained LCA certification.

As of the end of the Reporting Period, the Company had

**17**

products certified with the French Carbon Footprint

**6**

products achieved third-party EPD verification

**13**

products obtained LCA certification







183N Series Module Product French Carbon Footprint Certification



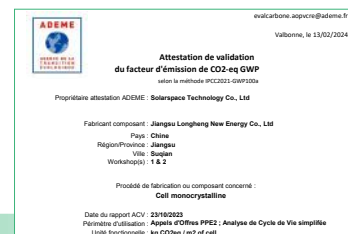
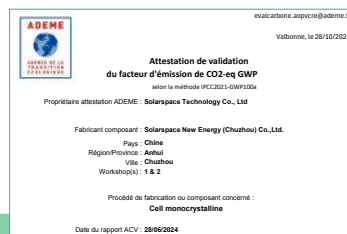
N-type 72 Module EPD Certification



N-type 72 Module CFP Certification



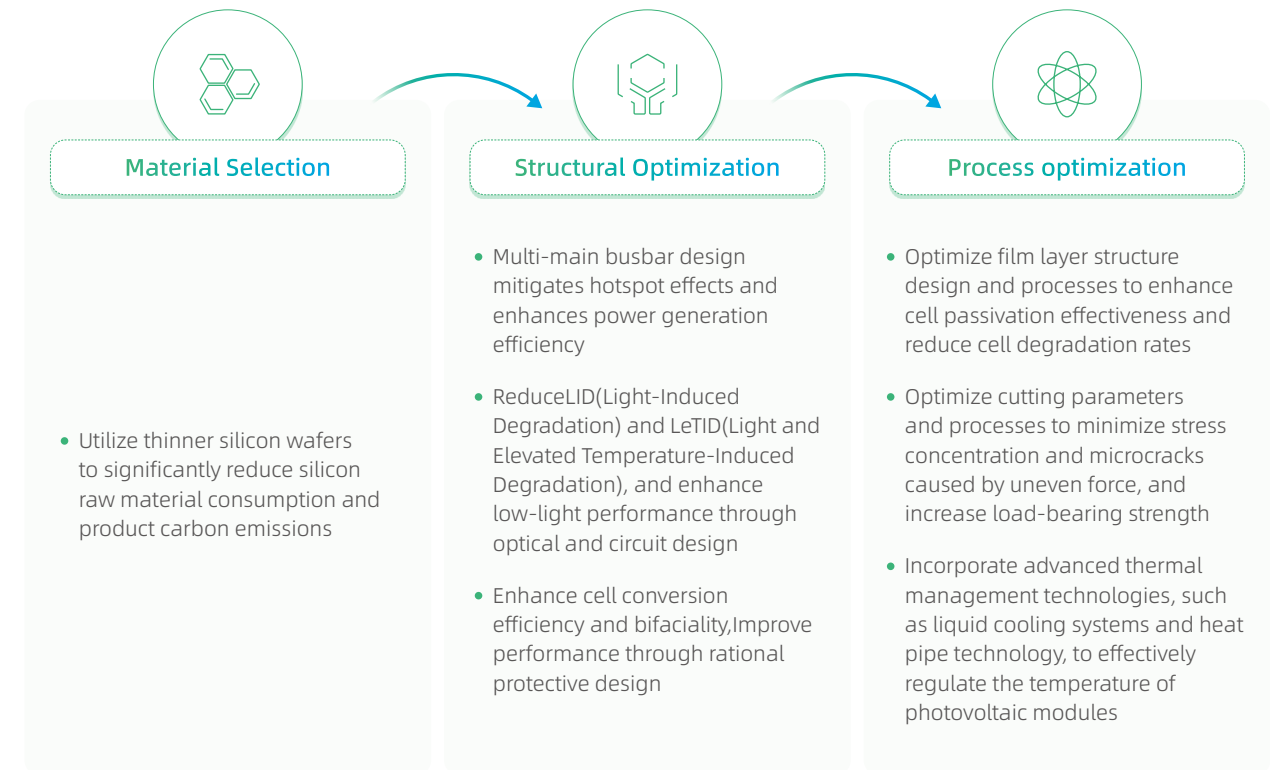
At the same time, the Company's various module and cell products have obtained the Photovoltaic Cell and Module Carbon Footprint LCA Life Cycle Assessment Certification issued by the French Environment and Energy Management Agency (ADEME), demonstrating that SolarSpace's products have been highly recognized for their environmental performance by internationally authoritative organizations.



Photovoltaic Cell and Module Carbon Footprint LCA Life Cycle Assessment Certification

## Intelligent Manufacturing

We operate customized production lines that can flexibly incorporate and adjust customers' product standards and process requirements. Throughout this process, we continuously improve product performance by optimizing material selection, as well as structural and process design.



During the R&D pilot production process, we also implemented automated manufacturing. The digital system records the entire production process of each solar cell, with relevant data corresponding to the process parameters, yield, and conversion efficiency of each batch, providing precise data support for product design optimization and improvement. As of the end of the Reporting Period, the Company operates seven smart factories equipped with advanced machinery.

## Intelligent manufacturing

Jiangsu Longheng prioritizes intelligent manufacturing in production line design, establishing automated process lines and a visualized digital platform to improve production efficiency and resource allocation, while reducing energy consumption and carbon emissions.





## Open Innovation Ecosystem

SolarSpace consistently upholds the principles of open cooperation and mutual benefit, actively engaging in various industry associations and exchanges. The Company proactively shares valuable experiences in technological innovation, sustainable development, and market expansion, enhancing communication and collaboration with peer enterprises to jointly promote the healthy and sustainable development of the entire industry.

### January

Intersolar North America 2024



InterSolution 2024



### February

Genera 2024



### March

Key Energy 2024



The 19th China (Jinan) International Solar Energy Utilization Conference



### April

Solarex Istanbul



World Future Energy Summit 2024



The 4th Central Plains Photovoltaic and Energy Storage Exhibition and China Photovoltaic Heroes Conference



### May

American Clean Power



The Solar & Storage Show MENA 2024



### June

SNEC PV+ The 17th (2024) International Solar Photovoltaic and Smart Energy (Shanghai) Exhibition



The Smarter E Europe 2024



### August

Intersolar South America 2024



2024 World Solar Photovoltaic and Energy Storage Industry Expo



### September

Intersolar Mexico 2024



RE+ 2024



2024 NET ZERO Photovoltaic Industry Conference



### October

International Greentech & Eco Products Exhibition and Conference Malaysia (IGEM) 2024



### November

2024 China Photovoltaic Heroes Conference (Series Forums) – Wuxi Photovoltaic Heroes Conference



### December

The sixteenth session of the Conference of the Parties (COP16)





2024 Bloomberg New York Summit (BNEF Summit New York 2024)

In April 2024, the Bloomberg New York Summit, themed 'Where Energy, Finance and Technology Converge,' convened government officials, industry leaders, and capital market decision-makers from around the world to collectively explore key topics in energy, finance, and technology. SolarSpace was invited to participate and shared its industry expertise and future outlook with fellow attendees at the summit.



2024 Bloomberg New York Summit

Photovoltaic New Era Forum, September 2024

The Vice President of Sales for Greater China at SolarSpace delivered a presentation titled *N Innovation Unlimited, Multiple Gains from One Matrix* at the forum, offering an in-depth analysis of the current opportunities and challenges facing the photovoltaic sector, and highlighting that cost reduction and efficiency enhancement, as enduring themes in the sector, are driving continuous optimization and upgrading throughout the industry chain. SolarSpace remains at the forefront of the industry, launching the 210R rectangular solar cell module in 2024. This module not only improves power generation capacity but also maximizes container transportation efficiency through an innovative layout design, significantly reducing logistics costs and revitalizing the overall economic viability of photovoltaic projects.



2024 New Era Photovoltaic Forum

Intellectual Property Protection

SolarSpace places great emphasis on intellectual property protection by establishing a comprehensive intellectual property management system and enforcing a zero-tolerance policy toward infringement. We conduct regular patent risk assessments, thereby providing a robust legal foundation for the company's sustained innovation.

We strictly adhere to the *Patent Law of the People's Republic of China*, the *Trademark Law of the People's Republic of China*, and other relevant laws and regulations in our operating regions. We have developed internal management policies including the *Trademark Management System*, *Patent Management System*, and *Intellectual Property Management System*. By implementing scientifically designed preventive measures, we mitigate intellectual property infringement risks and ensure the protection of research and development innovation.

- Prior to the development of new products and processes, the Intellectual Property department organizes technical personnel to conduct searches and analyses of existing domestic and international technologies. Based on the current technological landscape, technical routes are adjusted or revised, and avoidance strategies are designed to prevent infringement.

- Prior to and during the research and development process, promptly implement patent layout strategies to ensure the protection of intellectual property, monitor competitors' technological status, and, in the event of potential infringement risks, conduct timely risk identification and investigation. When necessary, employ legal measures to safeguard the Company's rights and interests.

Intellectual Property Protection Measures

The Company has established stringent regulations on various incentive measures for inventions, technological innovation, and patent applications. While safeguarding intellectual property rights, it has implemented special rewards for employees who actively apply for inventions, effectively stimulating innovation enthusiasm and encouraging departments and employees to engage in research and development innovation.

2024 SolarSpace Industry Association Participation List

Industry Association	Position
China Photovoltaic Industry Association	Member
China Chamber of Commerce for Import and Export of Machinery and Electronic Products	Member
All-China New Energy Chamber of Commerce	Governing Unit
Jiangsu Photovoltaic Industry Association	Governing Unit
Jiangsu Renewable Energy Industry Association	Permanent member of council
Solar Energy Industries Association (SEIA), USA	Watt Member
Brazilian Solar Energy Association ABSolar	Member

As of the end of the Reporting Period

the Company has cumulatively obtained  
**436**  
patents

comprising  
**67**  
invention patents

**369**  
utility model patents



## 1.4 Sustainable Supply Chain

### Supplier Management

SolarSpace actively advances the development of a sustainable supply chain to ensure the high quality and stable supply of its products and services. We drive the green transformation of the supply chain by prioritizing suppliers who meet social responsibility requirements, enhancing social responsibility audits of suppliers, and promoting collaborative innovation among upstream and downstream enterprises within the supply chain.

The Company has established supplier management systems, including the *Supplier Management Control Procedures*, *Procurement Management System*, and *Raw Material Abnormality Management Regulations*, comprehensively standardizing the development, review, and evaluation processes of suppliers to ensure efficient supplier management across all aspects. As of the end of the Reporting Period, SolarSpace had a total of 133 raw material suppliers, comprising 125 domestic suppliers in China and 8 overseas suppliers.

As of the end of the Reporting Period

133

raw material suppliers

125

domestic suppliers in China

8

overseas suppliers



#### Supplier Admission

- The Company conducts qualification assessments and on-site audits for new suppliers, determines qualified suppliers based on audit scores, and includes them in the «Qualified Supplier List.»



#### Supplier Evaluation

- The Company categorizes suppliers into A、B、C.three groups based on the impact of each material on the final product quality and regularly performs evaluations. Appropriate incentives or corrective actions are applied according to the scoring results, with on-site audits conducted annually as per the audit schedule.



#### Supplier Elimination

- Presence of Concealment or Fraudulent Conduct
- Monthly Assessment Scores for Three Consecutive Months 60 Below
- Suppliers Failing the Annual Audit Must Complete Rectification Within a Specified Period Before Resuming Supply
- Cooperation with Suppliers Assessed as High Risk in Social Responsibility Will Be Suspended Until the Risk Is Reduced to Medium Level

Supplier Management Mechanism

## Sustainable Procurement

SolarSpace actively implements sustainable procurement by closely integrating environmental protection, social responsibility, and economic benefits, thereby establishing a low-carbon, efficient, and transparent supply chain ecosystem. This effort supports the achievement of the Company's sustainable development objectives and promotes green advancement throughout the industry. During the Reporting Period, sustainable procurement training was provided to all procurement personnel.

#### Environmentally Friendly

- The Company prioritizes suppliers that provide products and services compliant with environmental standards when selecting suppliers.
- During the supplier onboarding phase, we require suppliers to provide ISO 14001 certifications such as Environmental Management System and corporate carbon footprint. ESGRelevant management certification documents.

#### Social Responsibility

- During procurement, the Company emphasizes social responsibility within the supply chain, ensuring that suppliers adhere to labor and human rights, refrain from using heavy or forced labor, and maintain fairness and transparency throughout the supply chain.
- Suppliers are encouraged to adopt fair and transparent business practices and to respect human rights and labor rights.

#### Economic Benefits

- Sustainable procurement requires enterprises to comprehensively consider economic benefits throughout the procurement process, ensuring that procured products and services are economically viable.
- Enterprises must achieve economic benefits through effective cost control and supply chain management.

The Three Core Elements of SolarSpace's Sustainable Procurement Policy

#### 2024 Performance Table of SolarSpace class A and class B Suppliers' ISO System Certifications

92.92%

percentage of suppliers certified to iso 45001 occupational health and safety management system

95.58%

percentage of suppliers certified to iso 14001 environmental management system

99.12%

percentage of suppliers certified to iso 9001 quality management system

During the supplier onboarding process, all qualified suppliers are required to sign the *Supplier Trade Security Commitment*, *Supplier Environmental, Occupational Health and Safety Agreement*, and *SolarSpace Partner Code of Conduct*<sup>4</sup>. This ensures that suppliers adhere to anti-corruption provisions, labor rights, health and safety, environmental protection, and other international standards throughout the partnership.

As of the end of the Reporting Period

100%

of Suppliers<sup>5</sup> signed the *Supplier Trade Security Commitment*, *Supplier Environmental, Occupational Health and Safety Agreement*, and the *SolarSpace Partner Code of Conduct*.

<sup>4</sup> ESG-related content primarily includes social responsibility (labor rights, child labor), environmental protection, business integrity, anti-corruption (including integrity), compliance with economic sanctions and confidentiality, intellectual property, and personal data protection.

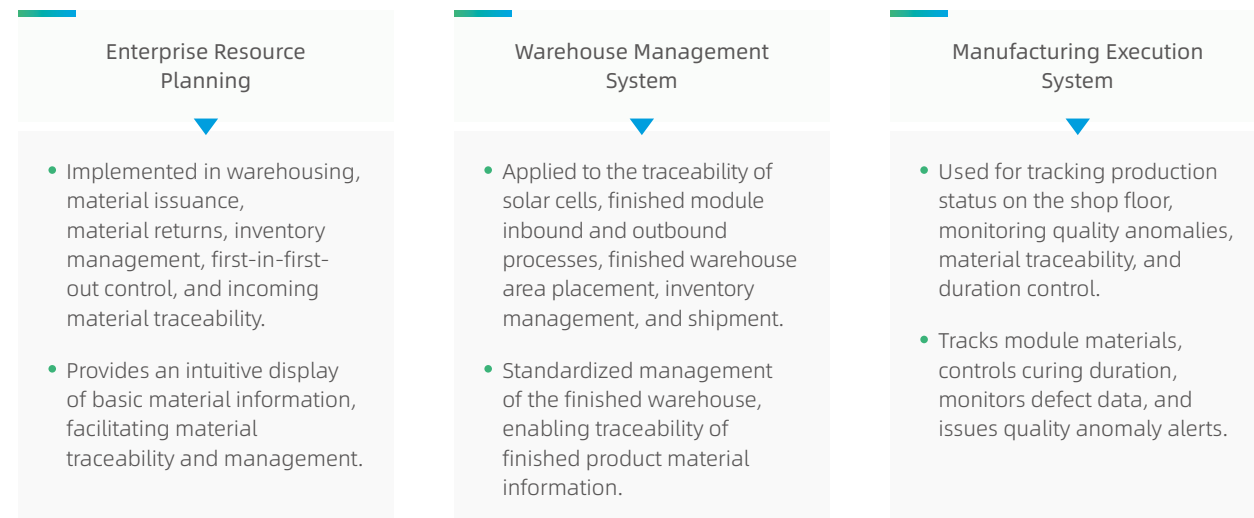
<sup>5</sup> The data scope encompasses the primary suppliers of SolarSpace.



Throughout the cooperation process, we annually distribute the *Supplier ESG Questionnaire* to qualified Suppliers classified as categories A and B to gather data on their environmental, social, and governance performance for the year. Based on the questionnaire responses, we complete the *Supplier Social Responsibility Risk Assessment Statistical Form* and implement guidance, CSR-specific audits, and corresponding corrective actions according to the suppliers' risk assessment scores. During the Reporting Period, we provided guidance to 13 suppliers on health and safety improvements, conducted CSR audits for 27 suppliers, and delivered ESG training to over 100 suppliers, emphasizing the importance of upstream and downstream due diligence. The ESG training covers labor rights, environmental protection, business integrity (including anti-corruption and compliance), information security, and supplier management. The supplier audit scope encompasses all suppliers.

## Raw Material Procurement Management

We have implemented stringent entry requirements for raw materials supplied by chemical suppliers, mandating the provision of testing reports from CNAS-certified external laboratories that verify compliance with hazardous substance regulations, thereby confirming the conformity of the raw materials. Furthermore, the Company conducts traceability management of materials by tracking the movement of Company materials through a digital traceability system.



## Responsible Minerals

The Company supports the procurement of conflict-free raw materials to uphold its commitment to social responsibility and to promote sustainable development and humanistic care throughout the supply chain. Simultaneously, we consistently adhere to social ethical standards, firmly oppose the procurement or use of conflict minerals, continuously implement responsible mineral management, and require suppliers to procure conflict-free raw materials. The *Supplier Product Quality Agreement* explicitly prohibits the use of raw materials sourced from conflict mineral regions by the second party.

The company consistently conducts due diligence on upstream suppliers. During the reporting period, 100% of key suppliers identified with conflict minerals risks have signed the *Conflict-Free Minerals Declaration*.

### During the Reporting Period

# 100%

of key suppliers identified with conflict minerals risks have signed the *Conflict-Free Minerals Declaration*.

## Supplier Collaboration and Empowerment

The Company consistently maintains a proactive approach in communicating with suppliers. To better address potential issues faced by suppliers, we provide multiple reporting channels, including telephone, email, and written correspondence, encouraging suppliers to promptly report any illegal activities. We ensure strict and timely review and feedback on all reports received. We strictly maintain the confidentiality of whistleblowers' information and do not disclose it to the reported parties or any unrelated personnel. If a whistleblower faces safety threats, the Company will implement measures to ensure their protection.

Furthermore, SolarSpace actively provides social responsibility empowerment training to suppliers and convenes supplier communication meetings to enhance supplier product quality and jointly promote mutual progress and development.

### Supplier communication meeting

SolarSpace conducts dedicated communication sessions with suppliers, during which procurement quality management standards, procedures, requirements, and systems are thoroughly presented, and the relevant standards and regulations that suppliers must adhere to are explicitly clarified. Furthermore, the meeting emphasized that the Company should maintain close communication with Suppliers and promptly address any issues arising during the procurement process. This exchange meeting has strengthened our cooperation with Suppliers, facilitated experience sharing and collaboration, enhanced supply chain efficiency, and promoted innovation and sustainable development.



# 02

## Ecological Conservation

SolarSpace facilitates the value chain's low-carbon transition through climate action, enhances resource utilization efficiency, and fosters an ecologically friendly and sustainable new ecosystem. We diligently fulfill our environmental protection responsibilities, proactively address global climate change, actively promote energy conservation and emission reduction, improve resource use efficiency, continuously mitigate the impact of our operations on ecosystems and biodiversity, and advance sustainable development across the value chain through low-carbon products and services.

The United Nations Sustainable Development Goals (SDGs) relevant to this chapter include:



### Sustainable Development Highlights and Achievements



- Integrate Climate Change into ESG Governance by establishing a multi-tiered climate change governance framework and systematically identifying climate physical risks, transition risks, and opportunities
- **The Group and 5** production bases have obtained ISO 14001 Environmental Management System certification; **the Group and 2** production bases have achieved ISO 50001 Energy Management System certification; and the Chuzhou base, Jiangsu Longheng, and Yuhui Photovoltaic production bases have been awarded Green Factory Certification
- Renewable energy consumption reached **21.7624 million kwh**, with the share of renewable energy in total electricity consumption exhibiting an upward trend over the past three years
- A total of **19** environmental management training sessions were held, with nearly **7,000** participants



# 2.1 Climate Change Mitigation

## Governance

SolarSpace places great emphasis on the risks and opportunities arising from climate change and actively responds to the national "dual carbon" targets. The Company integrates climate change into its sustainable development management, actively pursues low-carbon development models, reduces the carbon footprint of its products, and vigorously advances the low-carbon transition to contribute to global climate action.

SolarSpace fully acknowledges the risks and impacts of climate change on operational stability and continuously enhances its climate change management system. The Company incorporates climate change within its ESG governance framework and has established a multi-tiered climate change governance structure comprising the Board of Directors, the Strategy and Sustainable Development Committee, the Sustainable Development Committee, the Sustainable Development Center, and the Sustainable Development Working Group. The Board of Directors, as the highest decision-making authority, provides overall leadership for the Company's climate management, overseeing climate-related strategies, policies, progress toward targets, and the execution of strategies addressing climate-related risks and opportunities. We clearly define responsibilities at all organizational levels, supervise, and implement climate change strategies and measures to ensure the effectiveness of climate change risk management.

## Strategy

Addressing climate change has become a global consensus. SolarSpace, following the Task Force on Climate-related Financial Disclosures (TCFD) guidelines, comprehensively considers operational conditions, geographical factors, industry development, and other multidimensional aspects to preliminarily establish a list of climate change-related risks and opportunities, and formulates response measures to effectively manage the impact of these risks and opportunities on the Company's business.



Types of Climate Change-Related Risks and Opportunities		Potential Impacts	Mitigation Measures
Physical Risks	Acute Physical Risks	The increased frequency of natural disasters such as typhoons, floods, droughts, and extreme weather events like high temperatures may compromise the operational stability of the Company's infrastructure (including production and research facilities), thereby affecting business continuity.	<ul style="list-style-type: none"><li>Establish emergency response plans for natural disasters and extreme weather events, conduct regular drills, and enhance the stockpile of emergency supplies.</li><li>Monitor and promptly communicate extreme weather risk mitigation advice and safety alerts; swiftly activate emergency response plans during extreme weather events; allocate necessary resources to ensure employee safety and maintain business continuity.</li></ul>
	Chronic Physical Risks	The rise in global average temperatures compels the Company to consume more energy to maintain the required indoor environmental conditions at operational sites.	<ul style="list-style-type: none"><li>Enhance the Company's energy management system, improve energy efficiency, and actively advance the adoption of renewable energy to ensure stable power supply for production and operations, reduce overall energy consumption, and lower costs.</li></ul>
Transition Risks	Policy and Legal	Increasingly stringent climate change policies and regulatory requirements may elevate the Company's compliance and operational costs.	<ul style="list-style-type: none"><li>Continuously monitor the latest climate-related laws and regulations at operational sites and implement necessary energy-saving and carbon reduction measures.</li><li>Timely optimize the Company's institutional framework to ensure compliance in production and operations.</li></ul>
	Technology	The application of low carbon technologies may require additional capital investment, and existing production and operational models may face compatibility challenges with new low carbon technologies.	<ul style="list-style-type: none"><li>Conduct comprehensive feasibility studies and risk assessments, implementing process optimization and technological innovation while ensuring uninterrupted production and operations.</li><li>Enhance independent innovation, fully engage R&amp;D personnel, and advance the Company's technological transformation.</li></ul>
	Changes in Customer Behavior	An increasing number of customers have established value chain emission reduction targets and require the entire value chain to contribute to carbon emission reductions. Failure to meet these customer requirements may lead to loss of business opportunities.	<ul style="list-style-type: none"><li>Proactively engage with customers to understand their requirements concerning the Company's greenhouse gas emission reduction practices.</li><li>Establish greenhouse gas emission reduction targets and strategies, and implement energy-saving and carbon reduction initiatives.</li></ul>
Opportunities	Products and Services	Amid global climate change trends, customer preferences are shifting towards low-carbon and environmentally friendly products and services, creating market demand and development opportunities for the Company's photovoltaic products.	<ul style="list-style-type: none"><li>Advance low-carbon product design and transformation by enhancing energy and resource efficiency and reducing carbon emissions across the product lifecycle through technological innovation, process optimization, and upgrades to equipment and facilities, thereby promptly addressing stakeholders' demands for low-carbon and environmentally sustainable products and services.</li></ul>
	Market Competitiveness	The Company's low-carbon development strategy will drive technological innovation and product optimization, thereby enhancing corporate competitiveness and brand reputation.	<ul style="list-style-type: none"><li>The Company integrates climate change into its development strategy and promptly implements low-carbon innovation and transformation initiatives in response to changes in the external market environment. Simultaneously, the Company actively engages in information disclosure and product promotion to cultivate a strong brand image.</li></ul>



## Impact, Risk, and Opportunity Management

To strengthen resilience against climate change and effectively manage climate-related risks and opportunities, SolarSpace incorporates climate change into its risk management framework and continuously enhances its risk management capabilities. The Company has established mechanisms to identify, assess, and respond to climate change risks and opportunities, and regularly reports related performance and target achievements to the Board of Directors. This effectively mitigates the risks and impacts associated with climate change and promotes the sustainable development of SolarSpace.



Management Process for Climate Change-Related Risks and Opportunities

## Metrics and Targets

SolarSpace regularly measures and discloses the Company's greenhouse gas emissions, continuously monitors the progress and effectiveness of its climate action, effectively manages the Company's climate change risks and impacts, and consistently advances the development of carbon emission targets.

### 2022-2024 SolarSpace Greenhouse Gas Emissions Management Performance

Indicator <sup>6</sup>	Unit	2022	2023	2024
Scope 1 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	8,504.60	21,396.44	21,766.24
Scope 2 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	277,964.90	964,674.12	1,141,615.73
Total Scope 1 and Scope 2 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	286,469.50	986,070.57	1,163,381.97
Scope 1 and Scope 2 Greenhouse Gas Emission Intensity	Tonnes of Carbon Dioxide Equivalent per MW <sup>7</sup>	20.62	25.39	29.50
Total Scope 3 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	/	11,948.69 <sup>8</sup>	1,731,545.87 <sup>9</sup>

<sup>6</sup>The boundary for Scope 1 and Scope 2 carbon emissions statistics includes the Group headquarters and all production bases operational as of 31 December 2024.

<sup>7</sup>In the Report, the statistical criteria for greenhouse gas emissions, energy consumption, water resource consumption, and three-waste discharge density indicators are based on the total output of cell and module products.

<sup>8</sup>The 2023 Scope 3 carbon emissions boundary includes Jiangsu Longheng and Solarspace Xuzhou bases.

<sup>9</sup>The 2024 Scope 3 carbon emissions boundary includes the Group headquarters, Solarspace Xuzhou, and Laos bases.

## 2.2 Environmental Management

SolarSpace strictly complies with applicable laws and regulations, continuously enhances its Environmental Management System, strengthens environmental risk and emergency management mechanisms, and collaborates with employees to advance the Company's green operations and sustainable development.

### Environmental Management System

SolarSpace strictly adheres to the *Environmental Protection Law of the People's Republic of China*, the *Environmental Protection Law of the Lao People's Democratic Republic*, and other applicable laws and regulations in its operating regions. In alignment with the Company's production and operational characteristics, it has established policies and procedures including the *Environmental Management Commitment and Policy*, *Environmental Inspection Management System*, and *Environmental Factors Identification and Evaluation Procedures* to clearly define environmental management processes and rigorously mitigate environmental risks.

To ensure the effective operation of the Environmental Management System, SolarSpace continuously enhances its governance framework and clarifies responsibilities. The Company's Environment, Health and Safety (EHS) department, led by the EHS Manager, is fully responsible for daily environmental management, including the timely development or updating of internal policies and technical standards in response to changes in external regulatory requirements; evaluating and supervising the implementation of environmental management initiatives; maintaining effective communication with regulatory authorities; actively sharing the Company's environmental protection practices; and regularly reporting to the Company's Vice President.

SolarSpace continuously enhances its Environmental Management System in accordance with relevant certification standards, proactively undergoes environmental inspections and audits by external regulators and third-party organizations, promptly identifies issues, and refines management policies and measures to ensure the effective operation of the Environmental Management System. During the Reporting Period, the Group and 5 production bases certified under the ISO 14001 Environmental Management System, accounting for 85.7%, and the Chuzhou base, Jiangsu Longheng, and Yuhui Photovoltaic production bases have obtained Green Factory Certification.

During the Reporting Period

the Group and 5

production bases certified under the ISO 14001 Environmental Management System

85.7%

accounting for

3

the Chuzhou base, Jiangsu Longheng, and Yuhui Photovoltaic production bases have obtained Green Factory Certification

### Environmental Risk Management

SolarSpace has established a comprehensive mechanism for environmental risk identification and assessment. The Company strictly adheres to the *Environmental Factors Identification and Evaluation Procedure*, conducting at least one environmental risk factor assessment and analysis annually, compiling a list of identified environmental risk factors, and developing management and response plans for the identified risks to effectively control environmental risks.

In 2024, SolarSpace developed a targeted internal management enhancement plan based on environmental risk identification results. This plan encompasses multiple aspects, including a comprehensive review of environmental protection facilities and specialized safety assessments, effectively improving the Company's environmental management standards and risk mitigation capabilities.

SolarSpace strictly adheres to the *Environmental Protection Inspection Management System*, mandating that each production base conduct weekly routine inspections and perform regular special spot checks on key pollutant discharge equipment, including wastewater and exhaust gas systems. Furthermore, the Company promotes mutual supervision and communication among production bases by organizing EHS reciprocal inspections, thereby elevating the overall environmental management performance. During the Reporting Period, the Company conducted multiple EHS mutual inspections across its production bases and consolidated and closed all identified issues.



## Environmental Emergency Management

SolarSpace places significant emphasis on the prevention and response to sudden environmental incidents. The Company has established an environmental emergency team, continuously refined the *Emergency Response Plan for Sudden Environmental Incidents*, and regularly conducts emergency drills to enhance its capacity to manage sudden environmental risks.

### During the Reporting Period



32

the production bases collectively organized emergency drills

with over

290 participants

### Solarspace Chuzhou hazardous waste leakage emergency drill



with over

To verify the effectiveness of the emergency response plan and improve emergency management mechanisms, Solarspace Chuzhou base conducted a hazardous waste laboratory liquid leakage emergency drill in 2024. Drills have effectively enhanced employees' emergency response capabilities to incidents such as hazardous waste leakage, thereby reducing environmental pollution from emergencies and minimizing personnel injuries.



## Enhancement of Environmental Awareness

SolarSpace is committed to embedding green environmental awareness throughout all stages of production and operations, regularly conducting environmental knowledge and technical training for all employees and collaborating with staff to achieve the Company's sustainable development objectives.

### During the Reporting Period

19

SolarSpace conducted environmental management training sessions

with nearly

7,000 participants

### Environmental management training series at the Tongshan Base



To foster employees' environmental awareness and enhance environmental management standards, the Tongshan Base conducted a series of environmental management training sessions for employees. The training covered topics including identification of environmental factors, interpretation of environmental laws and regulations, and environmental knowledge, with a total participation of 3,931 person-times.



### Environmental protection training at the Laos Base



In 2024, the Laos Base provided environmental protection training to 100% of newly recruited employees to ensure they fully understand the Company's environmental management policies. Furthermore, the Laos Base organized basic environmental knowledge training for 608 employees, effectively strengthening their environmental knowledge and operational skills.



In 2024, SolarSpace successfully met all its environmental management objectives, including achieving a 100% completion rate for environmental inspections and an emergency drill completion rate of no less than 90%. There were no major environmental risk incidents, nor any violations of environmental protection laws and regulations.

### In 2024



100%

completion rate for environmental inspections

90%

an emergency drill completion rate of no less than

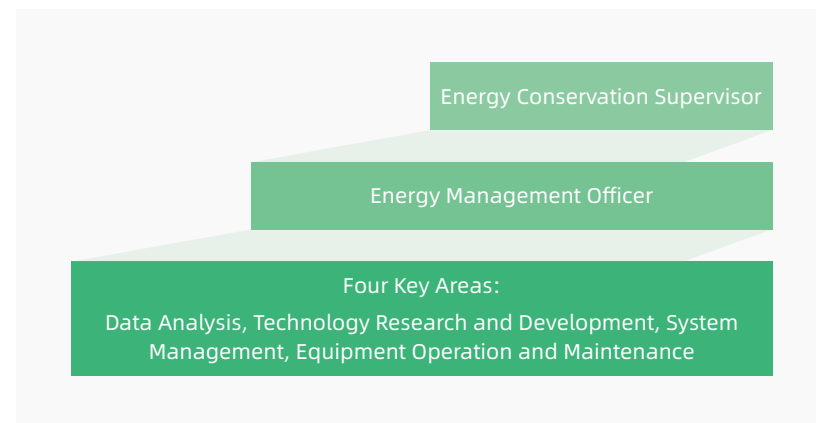


## 2.3 Energy Management

### Energy Management System

SolarSpace actively supports the national 'dual carbon' strategy by continuously enhancing its energy management system. The Company is dedicated to implementing energy-saving, green, and low-carbon production and operational practices through reducing energy consumption, improving energy efficiency, and promoting the transformation of the energy structure, thereby effectively advancing the achievement of its sustainable development goals.

SolarSpace strictly complies with the *Energy Conservation Law of the People's Republic of China* and other applicable laws and regulations in all operating locations. In 2024, the Company revised the *Administrative Water and Electricity Consumption Management System* to clarify and enhance energy management provisions. The Company has established a comprehensive energy management framework, led by the energy-saving supervisor and the energy management officer, collaboratively conducting energy management activities across all divisions to promote energy conservation and emission reduction, thereby advancing sustainable development.



Energy Management Framework

In response to the significant challenges posed by global climate change, SolarSpace actively embraces the principles of green development by setting annual energy management targets and continuously monitoring their achievement to improve energy efficiency and foster sustainable development.

As of the end of the  
Reporting Period

### the Group and 2

production bases of SolarSpace have obtained ISO 50001 Energy Management System certification

representing

# 42.9%

of the total

#### Energy Management Targets



Reduce the electricity consumption density of cell products and module products by

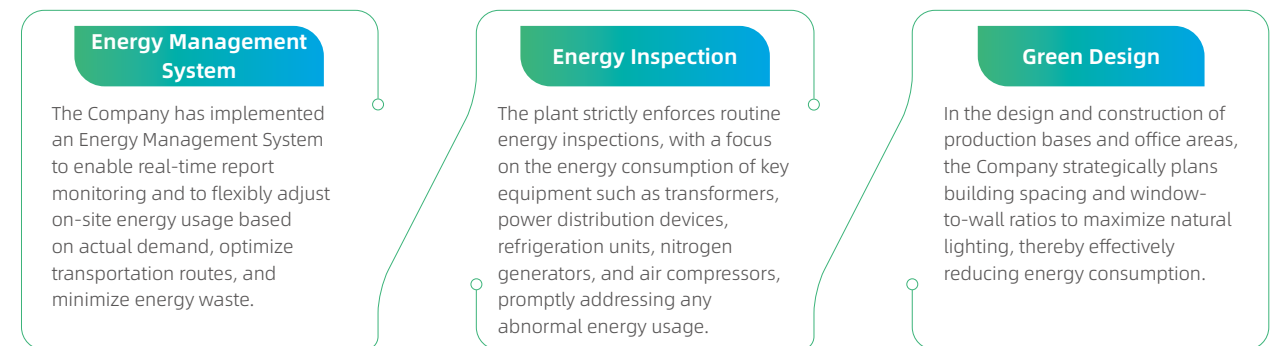
## 2% ↓

respectively, compared to the 2024 baseline

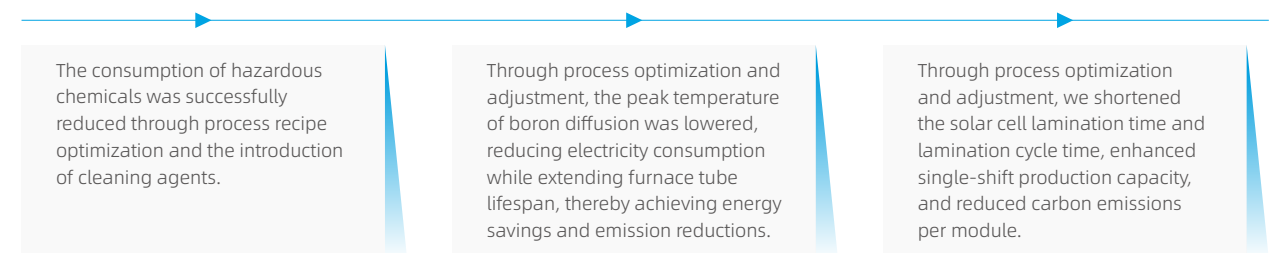
Furthermore, SolarSpace actively advances the certification of its energy management system, committed to enhancing its energy management standards. As of the end of the Reporting Period, the Group and 2 production bases have obtained ISO 50001 Energy Management System certification, representing 42.9% of the total.

## Energy Conservation Initiatives

The energy types consumed by SolarSpace in its business operations primarily include direct energy sources such as natural gas, diesel, and gasoline, as well as indirect energy sources including electricity and steam. In daily production and operations, SolarSpace advances energy-saving initiatives through the optimization of the energy management system, technological and process improvements, and upgrades to energy-consuming equipment, thereby significantly enhancing energy efficiency.



Optimization of the Energy Management System



Green Process

#### Jiangsu Longheng and Suqian (Cell) Bases actively advance energy-saving technological transformation projects



In 2024, Jiangsu Longheng and Suqian (Cell) Bases carried out renovation projects for fresh air units and air conditioning room equipment. By substituting cooling water with tap water during winter and optimizing the production process of steam humidification, the base effectively reduced energy consumption and enhanced energy utilization efficiency.

#### Energy-saving initiatives at the Chuzhou Base



In 2024, the Chuzhou base proactively implemented energy-saving initiatives. It conducted overall frequency reduction adjustments for fans and pumps while ensuring system requirements were met, thereby reducing their energy consumption.

SolarSpace promotes a green office philosophy by comprehensively adopting energy-efficient lighting across production and office areas and actively raising employee awareness of energy conservation through measures such as posting energy-saving electrical signage and conducting regular meeting briefings to reinforce energy-saving practices. Furthermore, SolarSpace has established an employee engagement mechanism that incentivizes proactive participation in technological and process improvements through material rewards and regularly conducts performance assessments for relevant personnel to ensure the effective fulfillment of energy management responsibilities, thereby cultivating a strong culture of company-wide involvement in energy-saving initiatives.



## Energy Transition

Building on the systematic advancement of energy conservation and consumption reduction, SolarSpace promotes green operations and sustainable development by optimizing its energy structure. The Company actively implements energy recovery measures and continuously expands the deployment and utilization of renewable energy, thereby effectively reducing its energy consumption and greenhouse gas emissions. During the Reporting Period, SolarSpace's renewable energy consumption reached 21.7624 million kWh, with the share of renewable energy in total electricity consumption exhibiting an upward trend over the past three years.

### During the Reporting Period



**21.7624** million kWh

SolarSpace's renewable energy consumption reached

### Waste heat recovery in the air conditioning machine room at Tongshan Base

In 2024, Tongshan Base implemented a waste heat recovery project in the air conditioning machine room, utilizing waste heat from workshop equipment to raise the air supply temperature during winter, and regulating the machine room environment temperature by adjusting the heat recovery valve, thereby effectively reducing steam consumption. During the Reporting Period, Tongshan Base saved 425 tons of steam daily, resulting in annual cost savings of approximately 10 million yuan.

### Construction of the photovoltaic power station at Chuzhou Base

SolarSpace upholds the principle of sustainable development and actively advances the construction and application of renewable energy. In 2024, the Chuzhou Base fully utilized idle spaces, including factory rooftops and ground parking lots, to plan and install solar photovoltaic panels, successfully achieving grid-connected power generation and effectively facilitating the Company's energy structure transformation. As of the end of the Reporting Period, the installed capacity of the solar photovoltaic power station at Chuzhou Base reached 33.65 MW.

### During the Reporting Period

**425** tons

tongshan base saved of steam per day

**10** million yuan

resulting in annual cost savings of approximately

**33.65** MW

the installed capacity of the solar photovoltaic power station at Chuzhou Base reached

## SolarSpace Energy Management Performance 2022-2024

### Natural Gas

Ten thousand cubic meters



### Gasoline

Ten thousand liters



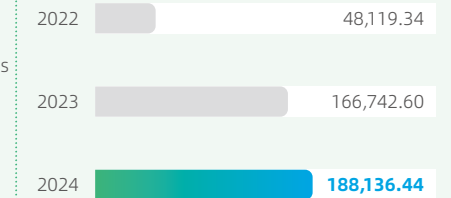
### Diesel

Ten thousand liters



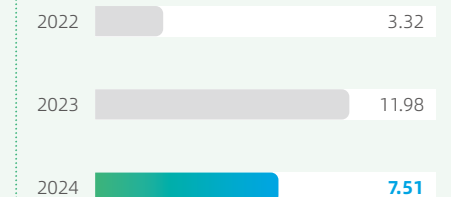
### Purchased electricity

Ten thousand kilowatt-hours



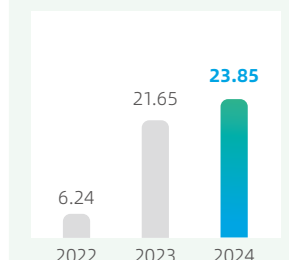
### Purchased steam

Ten thousand tons



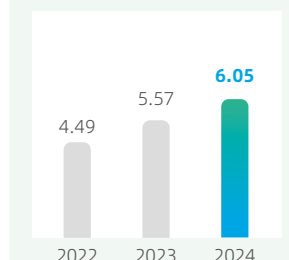
### Total energy consumption<sup>10</sup>

Ten thousand tons of standard coal<sup>11</sup>



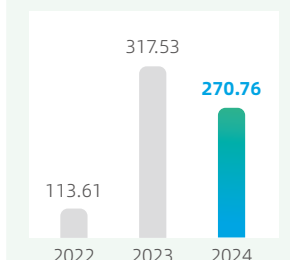
### Energy consumption intensity

Tons of standard coal per MW



### Total direct energy consumption

Tons of standard coal



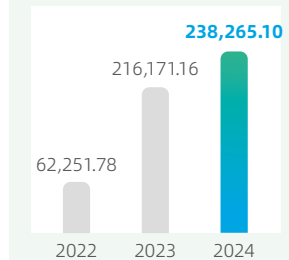
### Direct energy consumption intensity

Tons of standard coal per MW



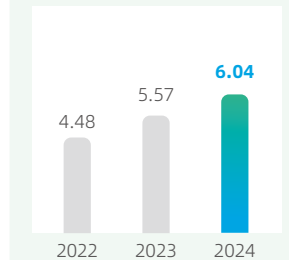
### Total indirect energy consumption

Tons of standard coal



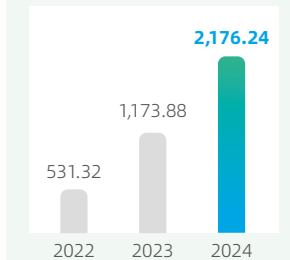
### Indirect energy consumption intensity

Tons of standard coal per MW



### Total renewable energy consumption

Ten thousand kilowatt-hours



### Proportion of renewable energy electricity consumption

%



<sup>10</sup> The statistical scope for total energy consumption and intensity includes direct energy consumption (natural gas, gasoline, and diesel) and indirect energy consumption (purchased electricity and purchased steam).

<sup>11</sup> The calculation methods and coefficients for energy consumption units (converted to standard coal) are based on the *General Rules for Comprehensive Energy Consumption Calculation (GB/T 2589-2020)* issued by the State Administration for Market Regulation and the Standardization Administration of China.



## 2.4 Water Resource Management

### Water Resource Management System

While advancing stable business development, SolarSpace is committed to exploring water conservation and recycling practices to minimize resource waste and improve the Company's overall resource management.

SolarSpace strictly adheres to the *Water Law of the People's Republic of China*, the *Law on Prevention and Control of Pollution of the People's Republic of China*, and all applicable laws and regulations in its operating regions. The Company continuously optimizes its water resource management system based on its operational conditions to ensure the rational use and effective protection of water resources. In 2024, the Company set annual water resource management targets aimed at further enhancing water use efficiency and effectively evaluating the performance and progress of its water resource management.

#### Water Resource Management Targets



Reduce the water consumption intensity of cell products by

**2% ↓**

compared to the 2024 baseline

SolarSpace's daily production and operational water primarily comes from municipal water supply networks, while certain overseas production bases mainly rely on surface water and groundwater sources. The Company is progressively enhancing its water resource management system to ensure compliance with water intake and usage regulations during production operations, and to effectively manage water-related risks.

In 2024, SolarSpace implemented a series of water resource management measures to ensure the stable and efficient operation of its water resource management system. The Company continuously conducts water usage inspections and controls, while promoting water-saving optimizations and water recycling measures to reduce water waste and improve utilization efficiency.

#### Water Use Inspection

- Conduct daily inspections of equipment and facilities to promptly detect and address abnormal water usage
- Implement refined management through installation of sub-meters

#### Water Conservation Optimization

- Install water-saving facilities in office and residential areas
- Reduce cooling tower water replacement frequency during summer while ensuring normal production operations
- Carry out process water-saving projects such as pure water consumption reduction transformations

#### Water Resource Recycling

- Establish rainwater harvesting and reclaimed water reuse facilities
- Install condensate water recovery devices for air conditioning units
- Ultrafiltration concentrate water reuse modifications and other process water reuse systems

Water Resource Management Measures

#### Chuzhou Base actively implements water conservation and recycling practices



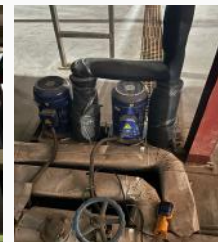
The Chuzhou Base has established a water-saving management department and actively implements water conservation and recycling practices. In 2024, the Chuzhou Base achieved water resource recycling by recycling reverse osmosis concentrate, reusing treated wastewater that meets standards for lime preparation and dissolution, and reusing condensate water in the pure water raw water tank or cooling tower. Furthermore, the Chuzhou Base has completed the application process for water-saving enterprise certification and has been awarded the title of a water-saving enterprise.



#### Tongshan Base water resource recycling project



In 2024, Tongshan Base actively promoted a series of water resource recycling initiatives. The base saves 60 tons of tap water daily by separately reusing the original instrument water and reverse osmosis flush water from the pure water station. The base also recycles air conditioning condensate water into the cooling tower system to assist with system cooling, achieving an annual reuse volume of 43,200 tons.



SolarSpace promotes water-saving awareness in daily production and office operations by displaying water-saving signs and posters, and conducting water-saving training sessions. The Company incentivizes employees to actively engage in technical and process improvement initiatives through material rewards, thereby increasing employee involvement in water resource management. Additionally, the Company sets management performance targets for relevant responsible personnel and conducts regular evaluations to enhance the effectiveness of water resource management.



Water-saving Awareness Promotion at Chuzhou Base

#### 2022-2024 SolarSpace Water Resource Management Performance

Indicator	Unit	2022	2023	2024
Total Water Resource Consumption	Ten thousand tons	568.83	1,859.89	1,655.33
Water Resource Consumption Intensity	Tons per MW	409.42	478.89	419.71
Total Water Resource Recovery and Reuse	Ten thousand tons	11.27	226.22	228.33



## 2.5 Ecological Conservation

### Emission Management

### Exhaust Gas Management

SolarSpace actively fulfills its environmental protection responsibilities, committed to achieving a balance between ecological sustainability and economic benefits. The Company continuously enhances pollutant emission management, promotes the recycling and reuse of packaging materials, and strives to reduce adverse impacts on ecosystems and biodiversity, thereby supporting SolarSpace's sustainable development.

SolarSpace strictly adheres to all applicable laws, regulations, and standards across its operating locations, proactively implements measures to reduce pollutant emissions, and, while ensuring compliance, seeks to minimize negative impacts on the ecological environment, thereby contributing positively to ecological protection. During the Reporting Period, SolarSpace did not encounter any environmental liability incidents, and pollutant emissions fully complied with the relevant standards applicable to its operational locations.

SolarSpace strictly adheres to the *Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution*, along with other applicable laws and regulations at its operational sites. The company has established internal policies, including the *Exhaust Gas Emission Control Management System*, the *Environmental Protection Facility Operation Management System*, and the *Discharge Outlet Management Measures*, which clearly define comprehensive management standards for the generation, treatment, and discharge of exhaust gases, achieving 100% compliance with exhaust gas pollutant emissions in 2024.

The exhaust gas pollutants at SolarSpace primarily consist of nitrogen oxides (NO<sub>x</sub>), volatile organic compounds (VOCs), and particulate matter produced during production and operational activities. To effectively reduce gaseous pollutant emissions, the Company has enhanced the construction of environmental protection facilities and conducts regular maintenance to ensure their proper operation. Simultaneously, production and treatment processes are optimized to minimize the generation of gaseous pollutants at the source and improve treatment efficiency.

#### Facility construction and maintenance



- Install VOCs online monitoring equipment for the screen printing process to monitor VOCs emission status in real time.
- Regularly maintain exhaust gas environmental protection facilities, including timely chemical addition and pipeline cleaning, such as the periodic replacement of spray tower packing and activated carbon.
- Promptly phase out outdated motors and utilize uninterruptible power systems as power backup to ensure atmospheric pollution control equipment operates in optimal and stable condition year-round.

#### Optimization of production and treatment processes



- Adopt processes and equipment with high resource utilization and low atmospheric pollutant emissions to minimize exhaust gas generation at the source.
- Employ multi-stage treatment technologies such as acid/alkali spray and activated carbon adsorption, in combination with stainless steel combustion chambers, to enhance pollutant treatment efficiency.
- The Company collaborates with third-party professional firms to continuously optimize exhaust gas treatment solutions, effectively reducing pollutant emissions.

Gaseous Emissions Management Initiatives

#### Establishment of gaseous emissions treatment system at the Laos Base



The Laos base utilizes multiple treatment methods, including acid-base neutralization, combustion dust removal, and activated carbon adsorption, to process workshop gaseous emissions, thereby effectively reducing pollutant emissions from various gaseous wastes. Additionally, the base manages treatment facilities in accordance with operation and maintenance manuals to ensure that the facilities remain in optimal operating condition.

SolarSpace establishes an annual monitoring plan and regularly conducts emission testing of both organized and unorganized waste gases across different regions. The EHS Department also performs periodic supervisory inspections of waste gas environmental protection facilities to guide and enforce the remediation of environmental hazards. Furthermore, the Company routinely commissions qualified third-party testing agencies to assess various waste gas emission indicators, ensuring pollutant discharge compliance and minimizing impacts on the surrounding environment.

#### 2022-2024 SolarSpace Waste Gas Emission Management Performance

Indicator	Unit	2022	2023	2024
Total Waste Gas Emissions	Tons	17.42	54.54	35.80
Waste Gas Emission Intensity	Tons per MW	0.0013	0.0014	0.0009
Volatile Organic Compound (VOC) Emissions	Tons	6.15	7.04	7.39
Nitrogen Oxide Emissions	Tons	4.45	8.53	4.21
Sulfide Emissions	Tons	-	0.04	0.00
Particulate Matter Emissions	Tons	1.81	7.01	6.59
Emissions of Other Waste Gas Pollutants	Tons	5.01	31.91	17.61

#### Waste Gas Emission Intensity

↓ 36%

nearly decrease compared with 2023





Wastewater Management

SolarSpace strictly adheres to the relevant laws and regulations of its operating locations, establishing internal policies including the *Wastewater Discharge Control Management System*, *Environmental Protection Facilities Operation Management System*, and *Discharge Outlet Management Measures* to ensure standardized wastewater discharge management and mitigate impacts on the ecological environment. During the Reporting Period, SolarSpace achieved full compliance with wastewater pollutant discharge standards.

SolarSpace's wastewater comprises production wastewater and domestic sewage. The Company has established a comprehensive rainwater and sewage diversion drainage system and strictly implements classified collection and treatment procedures for wastewater. Through regular maintenance of system facilities, optimization of treatment processes, enhancement of the online monitoring system, and daily monitoring and recording, the Company ensures that pollutant levels comply with relevant discharge standards before uniformly discharging wastewater to the sewage treatment plant for further processing.

Production wastewater

Classify and collect production wastewater according to its characteristics. The wastewater is first treated in on-site adjustment tanks (for neutralization), then undergoes two-stage chemical defluorination, reduction, and neutralization processes, followed by MVP evaporation, biochemical treatment, and other treatment systems before being discharged to downstream wastewater treatment plants.

Domestic sewage

After treatment by oil separation tanks and septic tanks, the sewage enters the drainage network and is uniformly collected at the sewage treatment station for treatment and discharge.

Wastewater Management Initiatives

Suqian (Cell) Base pioneers mechanical vapor recompression technology for ammonium sulfate wastewater treatment

The Suqian (Cell) Base is the industry pioneer in applying Mechanical Vapor Recompression (MVR) technology to treat ammonium sulfate wastewater and has secured and filed over ten invention patents. The application of MVR technology in treating ammonium sulfate wastewater effectively resolves the wastewater issues arising from ammonia treatment within the industry, demonstrating superior energy efficiency, environmental performance, stability, and effectiveness compared to traditional biochemical treatment methods. The by-product ammonium sulfate crystals generated during the MVR treatment process can be utilized in the production of ammonium fertilizers, thereby achieving resource reutilization. Moreover, this technology offers significant economic benefits and extensive market application potential. Its innovative, breakthrough, and comprehensive approach to ammonium sulfate wastewater treatment aligns with the national development strategy promoting new quality productivity and advanced technologies.

Chuzhou Base promotes carbon source substitution and efficiency enhancement

The wastewater treatment station at Chuzhou Base utilizes high-COD organic wastewater to replace reagent composite carbon sources, effectively improving wastewater quality, enhancing treatment efficiency, and concurrently reducing the operating costs of the wastewater treatment facility.

2022-2024 SolarSpace Annual Wastewater Discharge Management Performance

Indicator	Unit	2022	2023	2024
Total Wastewater Discharge	Ten thousand tons	280.18	1,038.10	1,148.23
Wastewater Discharge Intensity	Tons per MW	201.66	267.29	291.13
Chemical Oxygen Demand (COD) Discharge	Tons	188.11	471.75	423.32
Total Nitrogen Discharge	Tons	54.26	87.62	86.00
Ammonia Nitrogen Discharge	Tons	31.74	32.44	25.86
Total Phosphorus Discharge	Tons	0.23	3.24	3.18

Waste Management

SolarSpace strictly adheres to the *Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste*, the *Waste Management and Disposal Guidelines* of Laos, and other applicable laws, regulations, and policies in its operating regions. The Company has established a *Solid Waste Discharge Management System* and developed a waste management inventory that clearly defines the treatment procedures and standards for various waste categories.

SolarSpace's non-hazardous waste includes general industrial waste, domestic garbage, and sludge, while hazardous waste comprises waste acid and alkali filter cartridges, spent activated carbon particles, and waste oil. The Company adheres to a classified collection principle for solid waste and has established a comprehensive treatment mechanism and procedures to ensure that all types of waste are properly and compliantly managed and disposed of, effectively mitigating pollution risks associated with waste.

Non-hazardous Waste



The Administration Department is responsible for the collection and treatment of general industrial solid waste, domestic waste, and kitchen waste. Each production base is equipped with a general industrial solid waste storage facility.

- General waste without recycling value is managed by professional waste disposal service providers.
- Recyclable waste is either sold for comprehensive utilization or collected and recycled by renewable resource recovery entities.

Hazardous waste

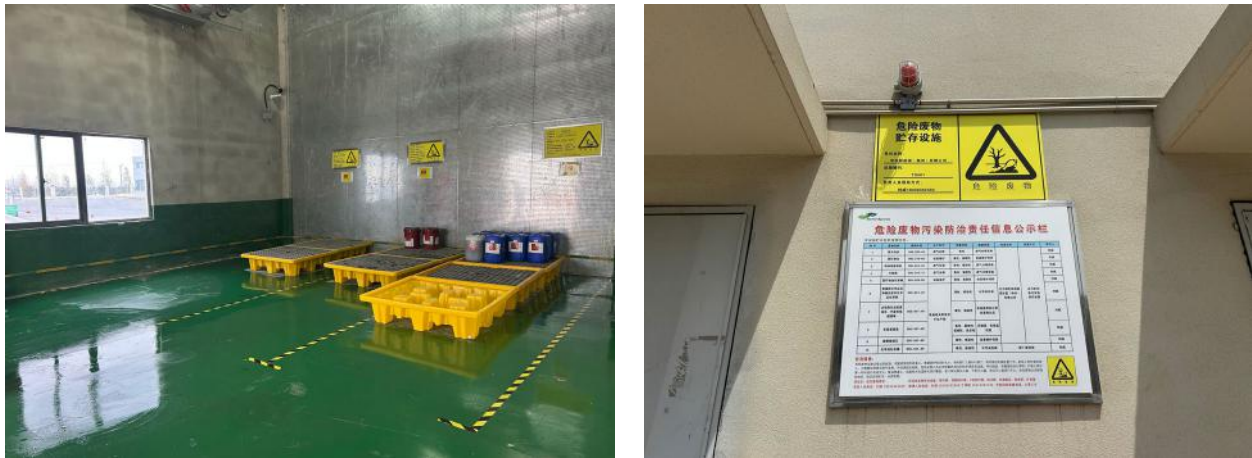


The EHS Department is responsible for the collection and disposal of hazardous waste. Each production base has established hazardous waste storage facilities in compliance with regulations.

- The EHS Department annually submits an *Annual Hazardous Waste Management Plan* to the local ecological environment authority in accordance with disposal requirements.
- Regularly organize relevant departments to manage hazardous waste storage, transfer hazardous waste via the provincial hazardous waste management platform, issue hazardous waste transfer manifests, and entrust qualified entities for collection and treatment.
- Accurately maintain management ledgers related to hazardous waste inbound and outbound storage.

Waste Management Initiatives





Standardized Hazardous Waste Management

To ensure accountability in waste collection, treatment, and tracking, SolarSpace regularly conducts qualification audits of waste collection service providers, guaranteeing that waste is promptly transferred to qualified third-party service organizations for compliant disposal in accordance with applicable regulatory requirements.

2022-2024 SolarSpace Annual Waste Management Performance

Indicator	Unit	2022	2023	2024
Total Hazardous Waste Generated	Tons	40.32	164.60	146.90
Hazardous Waste Generation Density	Tons per MW	0.0029	0.0042	0.0037
Total Non-Hazardous Waste Generated	Tons	14,822.45	50,367.68	41,585.94
Non-Hazardous Waste Generation Density	Tons per MW	1.07	1.30	1.05
Total Waste Recycled	Tons	3,503.57	7,515.09	8,232.15

Circular Economy

SolarSpace implements the principles of the circular economy by actively pursuing resource recycling throughout production and operations, with a focus on optimizing and recovering packaging materials to minimize waste generation.

The Company has introduced a universal tiered iron pallet and developed adjustable pallets based on mass production models to reduce resource consumption. Furthermore, the Company actively advances overseas packaging material recycling and cost reduction initiatives by encouraging wafer suppliers to utilize the same packaging materials as those used for the Company's finished batteries. This approach enables direct recycling and reuse of packaging materials, effectively reducing packaging costs. By the end of the Reporting Period, the Company had progressively implemented packaging material recycling programs in Laos in partnership with multiple collaborators.

Biodiversity Protection

SolarSpace upholds ecological protection principles by strictly avoiding ecological protection red lines during the engineering planning phase and conducting comprehensive environmental impact assessments in compliance with applicable laws, regulations, and standards. These measures aim to minimize impacts on ecosystems and biodiversity, thereby fostering sustainable economic and environmental development.



Based on the types and characteristics of environmental impacts, the Company categorizes construction projects into pollution impact projects and ecological impact projects



The Company's cell and module projects are classified as pollution impact projects; all project sites are situated within economic development zones, utilizing land designated for industrial purposes, thereby causing minimal ecological impact



The Company conducts comprehensive environmental impact assessments for photovoltaic power stations that generally occupy or utilize natural resources such as farmland, grasslands, barren mountains, and deserts

Ecosystem and Biodiversity Protection Initiatives

As of the end of the Reporting Period, SolarSpace's production and operational activities **have not** caused any significant impact on ecosystems or biodiversity.





# 03

## Value Creation

SolarSpace is dedicated to fostering a safe, inclusive, and diverse workplace environment that empowers employees to realize their potential, while contributing to social development with a spirit of benevolence. Accordingly, we prioritize the protection of labor rights, the enhancement of talent development systems, the establishment of a safe and healthy workplace, and the promotion of synergistic growth between employees and the Company.

The United Nations Sustainable Development Goals (SDGs) relevant to this chapter include:



### Sustainable Development Highlights and Achievements



- The employee training coverage rate reached **93%**, with a cumulative training duration of **88,356 hours**
- Achievement of **100%** of occupational health and safety targets for each manufacturing site
- The Group and 5 production bases have obtained **ISO 45001 Occupational Health and Safety Management System** certification
- **100%** of operational sites have conducted employee health and safety risk assessments
- A total of **562** sessions of three-tier safety education were conducted for employees, accumulating **13,488 training hours** and **11,100 participants**; **378 sessions** of specialized occupational health and safety training, totaling **378 training hours**, with **129,638 participants**
- Participation in flood relief and educational revitalization initiatives in Laos



## 3.1 Labor Rights and Welfare

### Labor Rights

- ☒ The Labor Law of the People's Republic of China
- ☒ Labor Contract Law of the People's Republic of China
- ☒ Recruitment Management System
- ☒ Welfare Management System
- ☒ Compensation Management System
- ☒ Performance Management System
- ☒ Promotion Management System
- ☒ Internal Trainer Management System

SolarSpace attracts diverse talent through multiple channels, values the protection of employee rights, respects cultural diversity, and actively cultivates a diverse and inclusive work environment. We actively listen to employees by establishing effective communication mechanisms to promptly address their concerns, ensuring that every employee can grow and receive support in their work.

SolarSpace strictly adheres to the core conventions of the International Labour Organization (ILO) and international human rights standards, as well as relevant laws and regulations in its operating locations, including *the Labor Law of the People's Republic of China* and the *Labor Contract Law of the People's Republic of China*. Internally, it has implemented a series of management systems—such as the *Recruitment Management System*, *Welfare Management System*, *Compensation Management System*, *Promotion Management System*, and *Internal Trainer Management System*—to ensure comprehensive protection of employee rights throughout the entire employment lifecycle.

SolarSpace strictly Complies with lawful employment practices, unequivocally prohibiting any form of child labor and forced labor within its operations and supply chain. The Company signs labor contracts with employees in accordance with applicable laws and respects and protects all employees' legitimate rights and interests. We employ the Digital Human Resources (DHR) system to verify the identity of new employees during onboarding, ensuring compliance with legal age requirements, and conduct human resources compliance audits. Additionally, we regularly issue monthly human resources operational reports to update Management on work progress. We also uphold employees' legally guaranteed rights to freedom of assembly and freedom of association. During the Reporting Period, the Group recorded no incidents of employment discrimination, child labor, or forced labor.

The Company actively promotes diversity, equality, and inclusion, and is committed to fostering such a working environment for every employee across our global operations. We have established the *Human Rights Commitment and Policy* to ensure that employees are not subjected to discrimination during employment on the basis of gender, age, nationality, race, religion, marital status, or other differences, thereby protecting employees' right to equal employment.

Employees may report any incidents of inequality, discrimination, or harassment encountered in the workplace through the DingTalk platform, Office Automation (OA) email, or the reporting hotline. We will conduct thorough investigations into reported incidents and take necessary measures to ensure the legitimate rights and interests of employees are fully protected. Furthermore, we have established a whistleblower protection mechanism that strictly safeguards the confidentiality of whistleblowers' personal information and all submitted reports, maintaining a zero-tolerance policy towards any form of retaliation or reprisal.

To foster and enhance employees' awareness of diversity and equality, and to prevent any form of discrimination or harassment in the workplace, we provide diversity, equality and inclusion, anti-discrimination, and anti-harassment training to all employees.

SolarSpace recognizes the critical role of cultural adaptation in facilitating the integration of expatriate employees into the company. Accordingly, we proactively offer opportunities for cross-cultural exchange to assist expatriate employees in gaining a deeper understanding of the corporate culture and values, thereby fostering team cohesion and collaboration.

#### Warm care and cultural integration

We have established a dedicated Lao cuisine dining counter to accommodate the dietary preferences of our Lao employees. During significant local religious festivals in Laos, we organize related events to enable employees to experience the warmth of home and the Company's care. On major Lao holidays, we also present gifts to expatriate employees to further enhance their sense of well-being.

#### SolarSpace sponsored the 'Chinese Bridge' competition

SolarSpace sponsored the "Chinese Bridge" competition and provided employment consultation to participants. Through this platform, we actively cultivate Chinese language talents and promote cultural exchange and mutual understanding.



SolarSpace sponsored the "Chinese Bridge" competition

2024

Number of incidents of discrimination

0



17.53%

percentage of employees from minority and/or disadvantaged groups<sup>12</sup> in the total workforce

3.70%

percentage of employees from minority and/or disadvantaged groups in the senior management team

100%

percentage of employees receiving diversity, discrimination and harassment awareness training

100%

percentage receiving awareness training on child labor, forced labor and/or human trafficking

Diversity, Equality and Inclusion Data for SolarSpace in 2024

<sup>12</sup> Minority refers here to various characteristics such as race, religion, disability or gender identity.

Vulnerable groups are those whose special conditions in terms of physical, social, political, economic or personality characteristics place them at risk of greater burdens in the workplace. Examples include children and adolescents, older persons, persons with disabilities or refugees.



## Talent Attraction

As a technology-driven enterprise, building a high-quality talent team is essential to us. We continuously strengthen the Company's talent pool through diverse recruitment channels and strategic partnerships, implementing talent acquisition initiatives such as the 'Light Pursuit Plan' and the 'Global Talent Recruitment Plan.'

### Campus Recruitment

- SolarSpace offers graduates diversified employment channels through the 'Light Chaser' program, offline campus presentations, online webinars, dual-selection fairs, and online application platforms.

### Social Recruitment

- SolarSpace employs multiple methods, including online recruitment, offline job fairs, and internal employee referrals, as its primary social recruitment channels.

Primary Recruitment Channels

### During the Reporting Period

Over

# 2,000

local job opportunities have been created in Laos

SolarSpace consistently upholds a diversified talent acquisition strategy, dedicated to cultivating an international workforce to enhance global competitiveness. We actively promote cross-cultural collaboration, fostering the integration of cultures from various countries and regions. Through the exchange and blending of diverse cultures, we inspire innovative thinking and support the diversified development of our teams. During the Reporting Period, we strongly advanced localized employment, creating over 2,000 local jobs in Laos.

### SolarSpace established internship and employment partnership with the national university of Laos

SolarSpace has developed a robust internship and employment partnership with the National University of Laos, offering internship opportunities to its graduates, facilitating the accumulation of practical experience, and laying a solid foundation for their future career development.



SolarSpace has established a university-enterprise partnership with the National University of Laos

The Company has launched the 'Light Chaser' Management Trainee Program, designed to attract and develop future industry leaders by offering comprehensive growth support and opportunities to advance their careers.

### 'Light Chaser' management trainee program

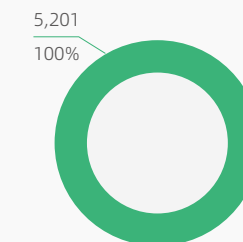
To fulfill the Company's long-term development objectives, we have carefully designed three categories of management trainee programs—'Star Universe,' 'Starry Sky,' and 'Starlight'—aimed at attracting outstanding campus talent through campus recruitment and university-enterprise collaboration. We implement a '70/20/10 blended training' model intended to unlock the potential of management trainees, enhance their skills, and establish a robust talent pipeline to support the Company's sustainable development.

To support management trainees in rapidly integrating into the Company and enhancing their competencies, we have developed a comprehensive process comprising pre-employment orientation training, centralized onboarding training, personalized mentorship, and position evaluations. This process not only facilitates management trainees' transition from students to employees but also equips them with essential job skills, enabling them to become key reserve talents within the Company's core team.

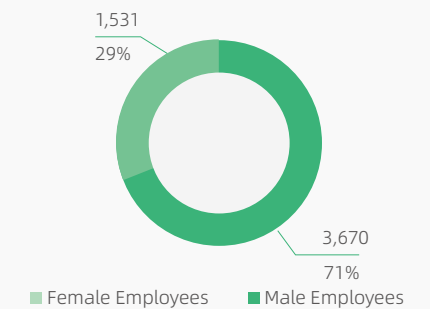


SolarSpace 'Light Chaser' Management Trainee Program

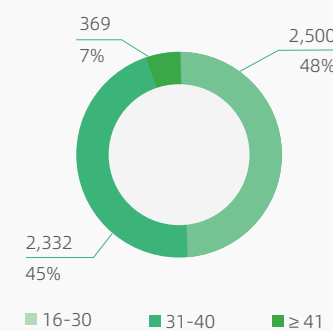
### Total Number of Employees



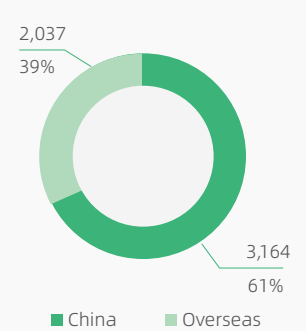
### By Gender



### By Age Group



### By Region





## Employee Compensation and Benefits

To attract, motivate, and retain talent, SolarSpace has established a scientifically sound and reasonable compensation system, dedicated to providing employees with competitive remuneration and benefits. We have established the 'Compensation Management System' to define the mechanisms for determining and adjusting compensation, ensuring fairness and equity in salary distribution.

We have implemented a comprehensive compensation scheme comprising fixed salary, variable salary, bonus incentives, and equity incentives. Furthermore, a dynamic salary adjustment mechanism is in place to regularly assess and adjust compensation levels in response to market fluctuations and the Company's operational performance, thereby maintaining competitiveness.

We have established multiple incentive mechanisms, including sales bonuses, technological transformation rewards, and intellectual property awards, to generously recognize employees who make outstanding contributions in sales, technological innovation, and intellectual property creation, thereby continuously fostering employee creativity.

We have consistently implemented equity incentive plans, sharing the Company's growth dividends with employees, cumulatively covering senior management, middle-level key personnel, and core technical staff 60 Person.

### SolarSpace Compensation and Incentive Mechanism

SolarSpace consistently prioritizes employee well-being by establishing the 'Welfare Management System' and is committed to the continuous enhancement of the employee welfare framework. We offer employees comprehensive and thoughtful welfare protection and, through the implementation of a series of welfare initiatives, effectively improve employee satisfaction and sense of belonging.

#### Statutory Benefits

- Medical Insurance
- Pension Insurance
- Maternity Insurance
- Work Injury Insurance
- Unemployment Insurance
- Housing Provident Fund

#### Additional Benefits

- Allowances and Subsidies: Night Shift Allowance, Seniority Allowance, Transportation Subsidy, Home Visit Subsidy, Communication Subsidy, Overseas Subsidy
- Monetary Gifts: Holiday Gifts, Birthday Gifts, Wedding Gifts, and Condolence Money
- Overseas Accident Insurance
- Canteen Benefits
- Housing Benefits

#### Family Benefits

- Maternity Leave
- Nursing Leave
- Overseas Home Leave
- Mother and Infant Room

#### Work-Life Balance

- Flexible Work Arrangements
- Birthday Celebrations
- Holiday Events
- Team Building Activities
- Sports Competitions

### SolarSpace Welfare System

## Employee Communication

SolarSpace is dedicated to cultivating a democratic communication environment and welcomes the genuine voices of its employees. We have established multiple communication channels, including employee forums, email, a suggestion box for rationalization proposals, and a grievance hotline, to ensure employees can conveniently express their opinions and provide feedback.

SolarSpace regularly conducts employee satisfaction surveys to thoroughly understand employees' needs and concerns. The 2024 employee satisfaction survey primarily focused on dining satisfaction, covering the Group and the production bases in Jiangsu Longheng, Solarspace Xuzhou, Yuhui Photovoltaic, Solarspace Chuzhou, and Solarspace Laos, with a total of 1,574 participants and a satisfaction rate of 95%. The Company has also implemented a targeted catering enhancement program based on employee feedback, actively improving the dining experience for staff.

2024



Employee satisfaction survey with a total of

**1,574**

participants

A satisfaction rate reached

**95%**

### Chuzhou Base employee forum

In August 2024, the Chuzhou Base convened an employee forum encompassing both production and functional departments, with the objective of gaining a thorough understanding of employee perspectives, soliciting their opinions and suggestions, and further fostering communication and engagement between the Company and its employees.



Chuzhou Base Employee Forum



## Employee Care

SolarSpace consistently prioritizes employee needs by delivering comprehensive support and care through a variety of initiatives.

### Meal allowance

- We provide meal allowances to employees to alleviate their financial burden.

### Seasonal beverages

- During extreme cold and hot weather, our employee tea rooms thoughtfully provide complimentary ginger tea and mung bean soup to help staff alleviate cold and heat, ensuring they maintain good physical health at all times.

### Commuting Support

- We proactively address employees' parking challenges by leasing shuttle buses to facilitate commuting, ensuring smooth and convenient travel for employees to and from work.

#### Employee Care Initiatives

We prioritize the care and support of female employees, striving to convey warmth and compassion to them. In 2024, on the occasion of International Women's Day, we thoughtfully prepared gifts such as flowers and chocolates for our female employees and extended our sincere best wishes. Furthermore, during Mother's Day, we held special events to express our highest respect and warm regards to all mothers.

Strictly implement national regulations on maternity and breastfeeding leave policies to assist women in achieving a better balance between work and family.

A Female Employees Committee has been established, dedicated to addressing and improving the working and living conditions of female staff.

Maternity rooms and nursing mother rooms have been established to provide comfortable and convenient spaces for employees during pregnancy and breastfeeding.

#### Care for Female Employees

SolarSpace promotes the development philosophy of 'Happy Work, Happy Life,' organizing a wide range of activities to enrich employees' leisure time.

### Football match event

To enrich employees' extracurricular cultural life and strengthen team cohesion, we collaborated with other enterprises within the park to jointly organize a vibrant 'Football Match' event. This initiative aimed to provide employees with a platform to relax and unwind, enabling them to relieve stress through sports and enjoy the spirit of teamwork amid their demanding work schedules.



Football Match Event

### Employee birthday celebration event

During the Reporting Period, we organized two birthday celebrations and cordially invited colleagues whose birthdays occurred within the respective periods to attend. The administrative departments of each production base meticulously arranged the venue and prepared delicious cakes. In a warm and joyful atmosphere, we collectively celebrated the birthdays of the honorees.



Employee Birthday Celebration Event

### Reading festival

We actively organize the 'Reading Festival' to enrich employees' cultural lives, stimulate their interest in reading printed books, enhance reading literacy, and guide them to avoid distractions from fragmented information.

On this occasion, we have created a platform for employees to communicate and share, fostering the exchange of ideas and experiences among staff. We encourage employees to continuously acquire knowledge through reading and to cultivate their personal development.



Reading Festival

### Laos Base: Water splashing festival

We respect the local customs and traditions of Laos and have carefully planned and hosted the 'Water Splashing Festival' event. During the event, employees were fully engaged, personally experiencing the traditional New Year celebrations of Laos, and within a joyful and harmonious atmosphere, further deepening their understanding of Laotian culture and traditions.



Laos Base Water Splashing Festival







### Enhancing professional competence: SolarSpace internal trainer training program

During the Reporting Period, the Company organized a three-day internal trainer training program, with 34 internal trainers participating. The training content primarily focused on course development, course delivery, and certification exercises. Through systematic training, internal instructors have enhanced their professional skills and strengthened their course design and delivery capabilities.

During the Reporting Period, internal instructors developed 27 course materials, providing robust support for the enhancement of the Company's internal training system and employee career development.



SolarSpace Internal Instructor Training Program

Employee development requires not only substantial internal resource support but also empowerment through external professional perspectives. The Company encourages employees to enhance their professional skills and overall competencies through learning, facilitating the realization of personal value by implementing measures such as academic subsidies.

During the Reporting Period, our employee training coverage rate reached 93%, with a total training duration of 88,356 hours.

#### During the Reporting Period



93%

employee training coverage rate reached

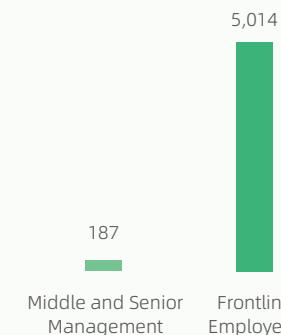
88,356 hours

with a total training duration of

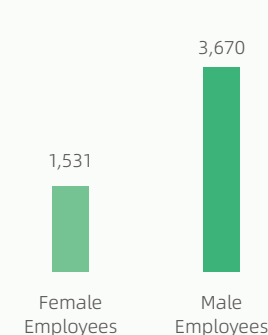


88,356 hours  
total employee training hours

#### Number of Employees Trained by Job Level

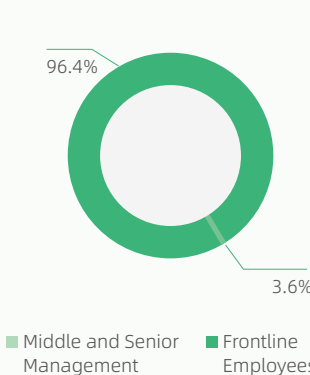


#### Number of Employees Trained by Gender

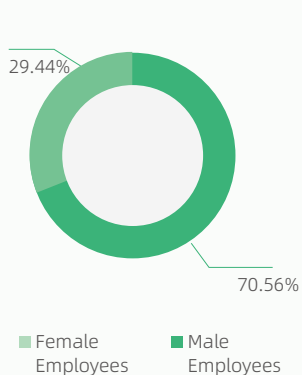


5.92 hours  
average training hours per employee

#### Training Coverage by Job Level



#### Training Coverage by Gender



#### Average Training Hours by Job Level

2.90 hours  
middle and senior management

6.30 hours  
frontline employees

#### Average Training Hours by Gender

5.90 hours  
male employees

6.90 hours  
female employees

#### 2024 SolarSpace Employee Training Performance Report

### Talent Development

SolarSpace places significant emphasis on talent development, recognizing talent as the core driving force behind corporate growth. We have established a performance management system centered on key performance indicators and critical task metrics, with assessment criteria tailored to the specific characteristics of each role, ensuring a comprehensive and objective evaluation of employee performance.

We conduct regular company-wide performance evaluations encompassing multiple dimensions, including work outcomes, team collaboration, and innovation capabilities, to ensure the assessments are both comprehensive and objective. For Management, we employ a 360-degree evaluation method, gathering feedback from multiple perspectives to ensure a thorough and well-rounded assessment.

Furthermore, we have established a transparent and open promotion system that provides regular opportunities for advancement and salary increases, thereby supporting employees' career development. By offering dual-track promotion pathways—professional and managerial—employees can select the growth trajectory that aligns with their career development plans, enabling personal growth and advancement across various domains.



# 3.3 Occupational Health and Safety

## Occupational Health and Safety Management System

SolarSpace upholds the safety policy of 'safety first, prevention foremost, and comprehensive management,' continuously enhancing the occupational health and safety management system and embedding safety considerations into every operational facet to ensure a healthy and safe working environment for all employees.

We strictly comply with the *Production Safety Law of the People's Republic of China*, the *Occupational Disease Prevention Law of the People's Republic of China*, the *Labor Law of the People's Republic of China*, and other applicable laws and regulations across all operating locations. We have established and rigorously implement management policies including the *Safety Risk Identification and Control Procedures*, *Safety Production Target Management System*, *Safety Production Responsibility System* covering formulation, communication, training, review, revision, and assessment, the *Occupational Disease Hazard Prevention Responsibility System*, *EHS Education and Training Management System*, *Contractor Management Regulations*, and the *Hidden Hazard Investigation and Remediation System*, to comprehensively safeguard employees' occupational health and safety.

We have established a Safety Production Committee comprising the Chairman, heads of various business units, safety officers, and employee representatives to oversee occupational health and safety management throughout business operations. Additionally, each site has established a Base Safety Production Committee, fully led by the site manager, to ensure comprehensive coverage of safety production management at every level. We convene Safety Committee meetings quarterly to thoroughly review, coordinate, and advance health and safety matters across the Company. Furthermore, we integrate safety production into the Company's operational objectives and performance assessments, cascading evaluations to individual employees through departmental breakdowns, thereby promoting the continuous improvement of our health and safety culture.

At the beginning of each year, we set the occupational health and safety objectives for the year, monitor their progress monthly, conduct assessments and management improvements, and perform a comprehensive review of the annual objective achievement at year-end. During the Reporting Period, all production bases achieved their occupational health and safety objectives.



Group Annual Management Objectives

We continuously improve the standards of our occupational health and safety management system. By the end of the Reporting Period, the Group and 5 production bases have obtained ISO 45001 Occupational Health and Safety Management System certification, representing 85.7%.

In 2024

## the Group and 5

production bases have obtained ISO 45001 Occupational Health and Safety Management System certification

85.7%

representing





## Safety Risk Management

SolarSpace continuously enhances the management of occupational health and safety by regularly identifying safety hazards and risks, rectifying identified hazards, and implementing corresponding control measures for potential risks.

In 2024



100%

of operational sites have conducted employee health and safety risk assessments

With reference to the *Classification and Codes of Hazardous and Harmful Factors in the Production Process* (GB/T13861) and the 'Classification of Enterprise Employee Injury and Fatality Accidents' (GB6441), we perform comprehensive and systematic hazard identification of production systems, equipment, working environments, and operational activities, considering unsafe human behaviors, unsafe physical conditions, adverse environmental factors, and management deficiencies.

### Safety Risk Factors

- Chemicals, equipment, mobile transport vehicles, enclosed environments, electrical circuits

### Health Hazard Factors

- Chemical and physical

Based on the results of the Risk Assessment, we formulate corresponding prevention plans and implement targeted response measures according to the priority of risks. Our preventive plans and measures include informing employees of potential occupational hazards, providing personal protective equipment to all employees, conducting regular occupational health examinations for employees in designated workshop positions, and delivering related awareness and training programs.

## Safety Culture Development

SolarSpace consistently regards the cultivation of a safety culture as a critical task in corporate development and actively fosters a robust safety culture environment. By meticulously organizing safety knowledge training, emergency drills, and various other activities, we continuously enhance employees' safety awareness and sense of responsibility, thereby reinforcing the safety foundation for the Group's sustainable development.

In 2024



562

sessions of three-level safety education for new employees were conducted

13,488 hours

the cumulative training duration

11,100

participants



378

sessions of specialized occupational health and safety training

378 hours

the cumulative training duration

129,638

participants

SolarSpace continuously reinforces safety awareness in daily production operations by regularly organizing various safety activities to enhance employees' self-protection capabilities. We are committed to fostering a safety culture characterized by full participation and collective responsibility, collaborating with employees to strengthen the safety production defense line.

### Everyone prioritizes safety, everyone is prepared for emergencies: Ensuring unobstructed life channels during Safety Month activities



To enhance the safety awareness of all employees and improve emergency response capabilities, we conducted a series of diverse Safety Month activities in June 2024. These activities comprehensively covered safety promotion, training, drills, and hazard inspections, yielding significant outcomes.

### Safety Culture Promotion

On June 2, we convened the Safety Month mobilization meeting, officially commencing the activities. Thereafter, through various channels including company-wide DingTalk communications, official group account press releases, and banner displays, we extensively promoted safety concepts, cultivated a strong safety culture, and ensured that safety knowledge was thoroughly internalized.



In June 2024, the Company conducted a series of targeted training programs covering critical areas such as job safety operation procedures, fire safety knowledge, hazardous chemicals, personal protective equipment, and occupational injury prevention. These training programs are designed to enhance employees' professional knowledge and skills, thereby reinforcing the safety defense system.





### Emergency Drills

During the Safety Month in 2024, the Company organized multiple specialized emergency drills, including emergency evacuation, chemical spill response, and electrical fire response drills. Through practical exercises, employees became well-acquainted with emergency procedures, thereby strengthening their capacity to handle unforeseen incidents.



### Safety Hazard Inspection

During the Safety Month in 2024, the Company carried out a comprehensive 'Safety Hazard Inspection' campaign involving all employees, encouraging proactive identification and reporting of potential safety hazards to prevent accidents at their source and further strengthen the safety foundation.

The Safety Month activities were diverse and comprehensive, not only improving employees' safety awareness and emergency response capabilities but also cultivating a strong safety culture. Going forward, we will continue to adhere to the 'Safety First' principle, consistently enhance safety management, and ensure production safety.

### 2024 SolarSpace Occupational Health and Safety Performance Report

Indicator	Unit	2022	2023	2024
Number of work-related fatalities	Employees	0	0	0
Work-related fatality rate	%	0	0	0
Lost workdays due to occupational injuries	Days	267	2,028	1,405

## Contractor Safety Management

In addition to safeguarding the health and safety of our own employees, we also prioritize contractor safety. We have established internal management systems, including the *Contractor Management Regulations* and the *Contractor Management Manual*, which clearly define safety requirements for construction activities such as import and export zones, hazardous operations, electrical work, chemical safety, material handling and storage, and emergency response. These systems delineate the safety management responsibilities of both parties, thereby improving management efficiency and work quality. During the Reporting Period, no contractor safety incidents were recorded.

Before contractors commence work and throughout their operational period, we provide safety training on fire prevention, equipment and facilities, and social security to enhance their overall safety awareness and prevent accidents.

## 3.4 Community Engagement

SolarSpace advocates actively giving back to society throughout its business development. We actively participate in social welfare and charitable activities, committed to sharing the benefits of development with society. We are dedicated to various charitable initiatives, focusing on the living conditions of vulnerable groups and providing assistance within our capabilities.

### Community Engagement

SolarSpace adheres to the public welfare principle of 'sharing development achievements with society' and actively fulfills its corporate social responsibility. In the event of natural disasters, we respond swiftly by providing aid to affected areas and collaborating closely with impacted communities to overcome challenges. Moreover, we maintain a sustained focus on the educational needs of youth in underdeveloped regions, supporting local education development through diverse forms of assistance.

#### United in adversity: Donation of flood relief supplies

In 2024, widespread flooding occurred across multiple regions in Laos, causing shortages of essential supplies and transportation difficulties for residents. SolarSpace actively fulfills its social responsibility by donating substantial quantities of daily necessities to disaster-stricken areas, assisting local residents in disaster response and recovery.



Donation of Flood Relief Supplies to the Laos Base

#### Focus on education: supporting local educational public welfare initiatives in Laos

In 2024, SolarSpace conducted a comprehensive survey of the educational conditions in Nanuo Village, Vientiane City, Laos, donated educational materials to the local primary school, assisted in improving the educational environment, enhanced students' learning experiences, and promoted the development of local education.



SolarSpace Supports Local Educational Initiatives in Laos



## Governance-Driven Excellence

SolarSpace is committed to compliance as its foundation, establishing and upholding business ethics and risk management standards, and dedicated to the stable development of the company. The Company has established a governance system with a clear division of responsibilities and effective checks and balances. It adheres to compliance requirements in daily operations, actively prevents and manages risks, strictly enforces anti-corruption and integrity measures, prioritizes information security, and is committed to fostering a safe and stable operating environment to ensure the Company's sustainable and steady development.

The United Nations Sustainable Development Goals (SDGs) relevant to this chapter include:



### Sustainable Development Highlights and Achievements



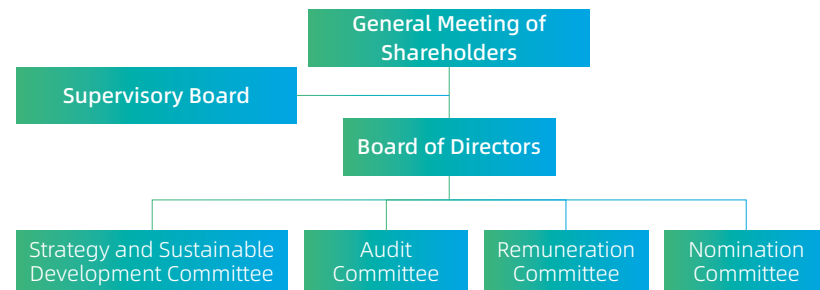
- Female Representation on the Board of Directors: **33%**
- Conducted over **50** on-site investigations with existing shareholders and responded to more than **600** investor inquiry calls
- Achieved a **100%** signing rate of the Integrity Commitment Letter among newly hired employees and key personnel, and a **100%** signing rate of the SolarSpace Partner Code of Conduct among partners
- **No litigation cases** related to violations of business ethics or unfair competition
- Business ethics training covered **100%** of Directors and Management
- **No major** information security incidents
- Revised nearly **50** departmental policies and introduced approximately **10** new departmental management policies



## 4.1 Corporate Governance

### Robust Corporate Governance

SolarSpace strictly complies with the *Company Law of the People's Republic of China*, relevant laws and regulations in its operating jurisdictions, and stock exchange rules, establishing a corporate governance framework characterized by 'three meetings and one layer.' To support strategic development objectives, ensure informed decision-making, and strengthen effective oversight of management, the Company has established four specialized committees under the Board of Directors: the Strategy and Sustainable Development Committee, the Audit Committee, the Remuneration Committee, and the Nomination Committee. Through close collaboration, these committees comprehensively fulfill the Board's supervisory, decision-making, and management-related responsibilities.

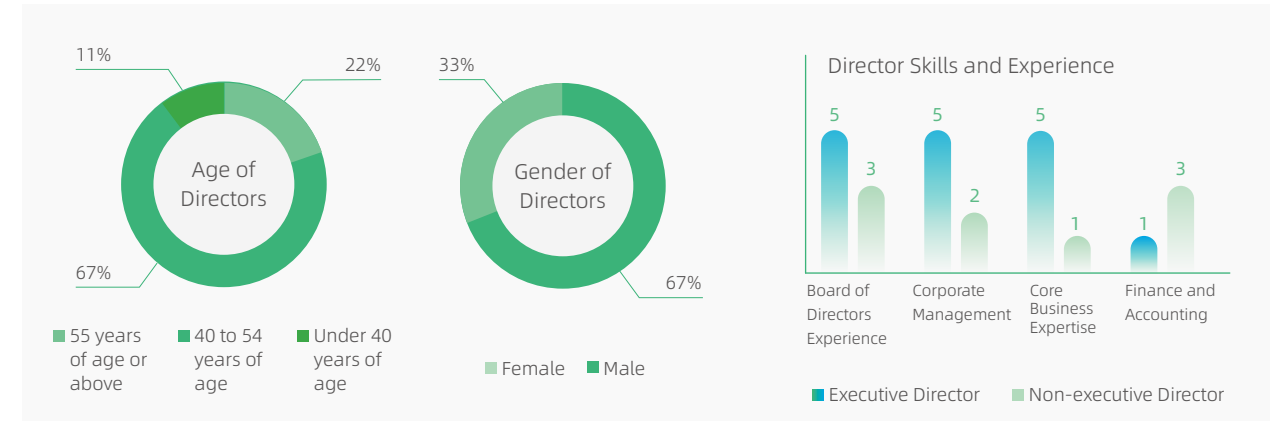


To further enhance the Board of Directors' capability in managing sustainable development-related matters, during the Reporting Period, we established the Strategy and Sustainable Development Committee and formulated the *Rules of Procedure for the Board of Directors' Strategy and Sustainable Development Committee*. The Committee is responsible for conducting in-depth research on the Company's long-term development strategy and sustainable development initiatives, providing relevant recommendations, and regularly reporting progress to the Board of Directors.

We regularly convene meetings of the Board of Directors and its committees to review and summarize the Company's operations, ensuring that Management fully comprehends the Company's operational status and promptly formulates appropriate policies and work plans. During the Reporting Period, the Company's Board of Directors held one meeting, and the Audit Committee held one meeting. The average attendance rate of all Board members, as well as the chairpersons and members of specialized committees, was 100%.

We have established the *Board Diversity Policy* and, in accordance with the *Articles of Association* and other relevant regulations, are committed to building a diverse Board of Directors. This policy enables the Company to comprehensively consider factors such as candidates' gender, professional experience, cultural and educational background when selecting Board members, ensuring the creation of an inclusive and effective Board that harnesses diverse perspectives and expertise, thereby sustaining a high standard of corporate governance. As of the date of the Report's publication, the Company's Board of Directors comprises nine Directors, including one Chairman, four Non-executive Directors, and five Executive Directors; among them, three are female Directors.

As of the date of the Report's publication, the Company's Board of Directors comprises



### Investor Relations

We have established an effective engagement mechanism with investors, with the Board Secretary and the Securities Affairs Department responsible for conveying shareholder feedback to ensure seamless information flow. Additionally, to streamline investor communications, an investor relations hotline was established during the Reporting Period.

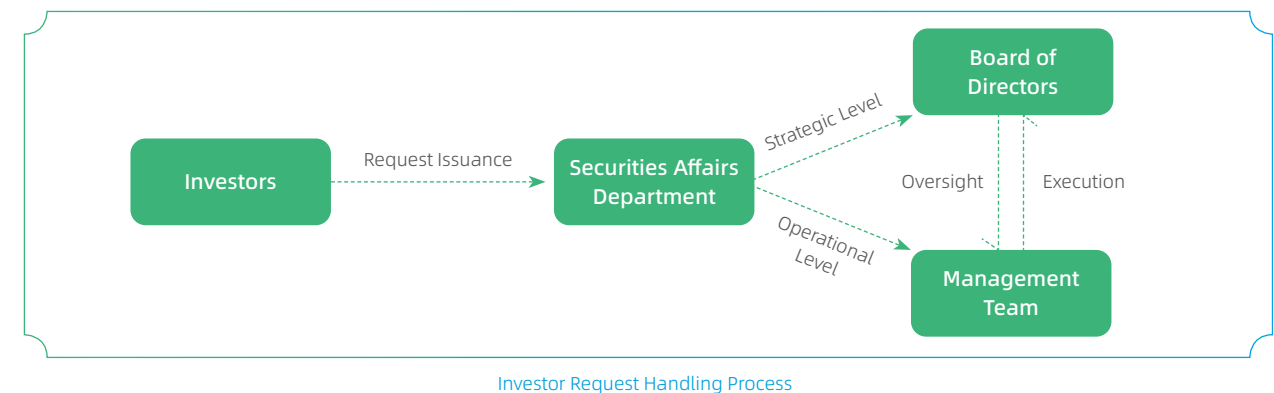
We regularly report the Company's operational and financial data to shareholders, actively participate in shareholder events, and share the latest technological advancements as well as ESG governance outcomes. Furthermore, we hold an annual general meeting of shareholders to consolidate feedback from all parties, ensure effective voting, and promptly disclose the resolution outcomes, thereby ensuring the authenticity and fairness of the general meeting of shareholders.

During the Reporting Period, we convened an extraordinary general meeting of shareholders. We received over 50 on-site investigations by existing shareholders, covering the Company's major domestic and international production bases; additionally, we responded to more than 600 incoming calls.

#### During the Reporting Period

Received over  
**50**  
on-site investigations by existing shareholders

Responded to more than  
**600**  
incoming calls





## 4.2 Business Ethics

SolarSpace enforces a zero-tolerance policy towards breaches of business ethics and firmly combats all forms of corruption, bribery, extortion, fraud, money laundering, and other unlawful activities. We strictly adhere to the laws and regulations of all jurisdictions in which we operate, including the *Anti-Unfair Competition Law* and the *Anti-Monopoly Law*, and have established anti-corruption and anti-bribery policies such as the *Code of Conduct for Integrity* and the *Code of Business Ethics*.

We have established a business ethics governance framework led by the Board of Directors. Disciplinary decisions regarding investigated cases are submitted to Management or, depending on the severity, to the Board of Directors for approval. The Audit and Supervision Department, Human Resources Department, Finance Department, and Administration Department collaborate closely to advance business ethics management.

### Audit and Supervision Department

- Responsible for receiving reports and supervising all employees, as well as investigating and verifying reported violations;
- Responsible for maintaining the Company's anti-fraud channels and conducting case investigations, submitting investigation and disposition reports based on verified findings;
- Responsible for managing the procedures for recovery and collection of penalties and fines;
- Responsible for monitoring the implementation of investigation outcomes and accountability measures.

### Human Resources Department

- Based on the investigation results from the Audit and Supervision Department, implement disciplinary actions against responsible personnel, ensuring that employee performance evaluations, transfers, and salary adjustments are linked to the handling of violations and disciplinary measures.

### Finance Center

- Responsible for establishing dedicated anti-corruption accounts and collecting related funds;
- Receiving gratuities from business transactions of various headquarters departments, funds recovered from case investigations, and fines and confiscations.

### Administration Department

- Responsible for the collection and safekeeping of confiscated physical items from investigations.

Responsibilities Allocation within the Business Ethics Management System

We regard the *Code of Business Ethics* as the foundation of the Company's business principles, setting out clear requirements and guidance on business ethics for employees at all levels in their daily work. Simultaneously, through the *SolarSpace Partner Code of Conduct*, we guide our partners to collectively comply with the Company's professional ethical standards, uphold professionalism, integrity, transparency, and ethical principles in business activities, and actively fulfill their responsibilities towards employees and society.

During the Reporting Period, the *Integrity Commitment Letter* was signed by 100% of newly hired and key position employees, and the *SolarSpace Partner Code of Conduct* was signed by 100% of our partners.

### During the Reporting Period



100%

the *Integrity Commitment Letter* was signed by

100%

the *SolarSpace Partner Code of Conduct* was signed by

As of the end of the Reporting Period, we conducted anti-bribery risk assessments across five high-risk departments: Management, Human Resources, Finance, Procurement, and Project Departments, with no violations identified. In 2024, SolarSpace did not encounter any litigation related to breaches of business ethics or anti-unfair competition.

To strengthen employees' awareness of integrity and self-discipline, we regularly perform anti-bribery risk identification and assessments, and provide periodic awareness campaigns, education, and training for all employees and key personnel, striving to cultivate a clean and ethical corporate culture.

2024

5 sessions

business ethics and anti-corruption training sessions

30 hours

total hours of employee business ethics training

600 employees

cumulative number of participants in business ethics training

100%

business ethics training coverage rate – directors

100%

business ethics training coverage rate – management personnel

70%

business ethics training coverage rate – frontline employees<sup>13</sup>

0 cases

business ethics and anti-corruption reports

0 cases

litigation cases resulting from violations of business ethics and unfair competition

2024 SolarSpace Business Ethics Training Performance Report

### Integrity training for employees in key positions

In August 2024, we conducted business ethics training for all employees in key positions. By explaining the laws and regulations applicable to our operating locations, relevant company policies, and sharing cases of violations, we effectively enhanced the business ethics awareness of employees in high-risk roles.



## Whistleblowing Mechanism

We have established comprehensive and independent whistleblowing channels, encouraging all stakeholders to report suspected violations, illegal activities, or breaches of business ethics through various means, including telephone, email, and written correspondence. Simultaneously, we strictly safeguard the confidentiality of whistleblowers' information throughout the investigation process, and any threats, intimidation, inducements, or retaliatory actions against whistleblowers or witnesses are strictly prohibited.



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Mailing Address:  
Audit & Supervision Department  
No. 29 Gaoxin Road, Economic & Technological Development Zone, Xuzhou City, Jiangsu Province

SolarSpace Whistleblowing Channels

Upon receipt of whistleblowing information, the Audit and Supervision Department will investigate and analyze of the complaint materials, gather relevant evidence, and if the whistleblowing information is verified as accurate, the Company will award the whistleblower with a cash reward. For confirmed violations, the Audit Department and Human Resources Department shall impose penalties on employees in accordance with the *Integrity Compliance Management System* and report the penalties imposed to Management or the Board of Directors. Penalty types include, but are not limited to, warnings, demotions, or dismissals; in severe cases, matters will be referred to judicial authorities in accordance with applicable laws.

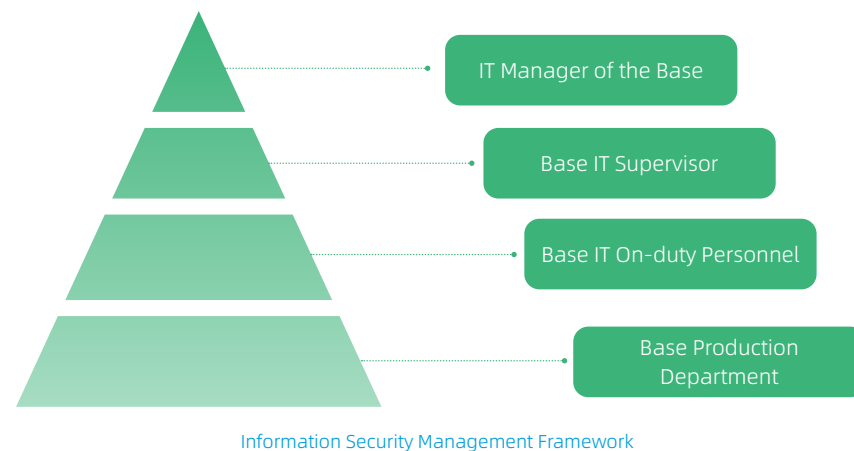
<sup>13</sup> The data presented here includes only functional departments.



## 4.3 Information Security and Privacy Protection

SolarSpace strictly adheres to relevant laws and regulations in its operating jurisdictions, including the *Cybersecurity Law of the People's Republic of China*, the *Administrative Measures for the Security Protection of Computer Information Networks Connected to the International Network*, and the *Personal Data (Privacy) Ordinance*. The Company has established the *Information Security Management System*, *IT Management System*, and *SolarSpace IT Emergency Plan*, which clearly specify the requirements for all employees and partners, including suppliers, regarding information collection, storage, and management, thereby comprehensively safeguarding the privacy and information security of both the Company and its customers.

We have established a comprehensive IT incident management framework. When an IT incident occurs, teams at all levels respond promptly and manage the situation efficiently in accordance with pre-established emergency response plans. If an incident exceeds the handling capacity of the current level, it is promptly escalated to the superior level for support. Furthermore, all levels regularly convene work summary meetings to conduct a thorough review of information security management, analyze existing issues and shortcomings, and develop targeted optimization plans to continuously enhance IT incident response capabilities and information security management standards.



In compliance with the National Cybersecurity Classified Protection 2.0 Standard Level 2 (Guidance Protection Level), we implement information security management measures across five dimensions: physical security, network security, host security, application security, and data backup security.



- The computer room is divided into the main computer room and monitoring area to ensure segregation of functional zones and targeted management.
- The computer room is equipped with facial recognition electronic access control and surveillance systems to enforce strict personnel entry and exit management.
- Leak detection and alarm devices are installed at both the top and bottom of the computer room.
- The computer room is equipped with redundant circuits to ensure continuous and stable operation of equipment during power outages.



- Regularly update network topology diagrams to maintain a clear understanding of the network architecture, facilitating effective security management.
- VLAN segmentation, configure traffic and access control policies, independently segment critical equipment zones, and deploy perimeter firewalls.
- Switch firewalls implement identity authentication mechanisms to prevent unauthorized device and user intrusions.
- Redundant design of network links, core devices, and security devices ensures network connectivity.
- Deploy network traffic probe to monitor and identify unauthorized traffic in real time.



- Servers are equipped with identity authentication, access control, security audit, and antivirus mechanisms.
- Deployment of server clusters with load balancing to improve processing capacity and reliability.
- Vulnerability scanning and assessment conducted prior to the activation of servers and critical network equipment.



- Application functions meet classified protection requirements, including identity authentication and audit logging.
- Deployment Web Application firewall to defend against common Web security threats.



- Local data backups are performed daily and stored offsite to ensure remote disaster recovery.



We regularly conduct both internal and external information security audits to comprehensively identify risks related to information leakage and system vulnerabilities. During the Reporting Period, we engaged a third-party professional institution to perform a thorough information security audit on all Company operational sites, focusing on critical areas including data center attack resilience, server vulnerabilities, and weak password management. All identified areas for improvement from the audit have been fully addressed through corrective and enhancement measures. In 2024, the Company conducted two internal audits and one external audit, with no major information security incidents reported.

We continuously provide employees with information security training and awareness programs, covering topics such as anti-fraud measures, prevention of information leakage, and case analyses, thereby comprehensively enhancing employees' information security awareness and capabilities.

### Anti-fraud awareness email

During the Reporting Period, we distributed an anti-fraud awareness email to all employees. The email used cartoons to vividly illustrate common online fraud techniques, thereby enhancing employees' anti-fraud awareness and reducing the risk of personal and company information leakage.



Anti-fraud Awareness Email

### Information security training

During the Reporting Period, we conducted information security training that provided detailed explanations of SolarSpace's information security protection policies. Case studies were used to highlight risks of information leakage, comprehensively enhancing employees' awareness and capabilities in information protection.



Information Security Training

## 4.4 Risk Management

SolarSpace strictly complies with relevant laws and regulations in all operating locations, including the *Audit Law of the People's Republic of China* and the *Basic Norms for Enterprise Internal Control*. The Company has established management systems such as the *Articles of Association*, *Internal Control Management System*, and *Internal Audit Management System* to comprehensively manage potential operational risks and ensure ongoing compliance.

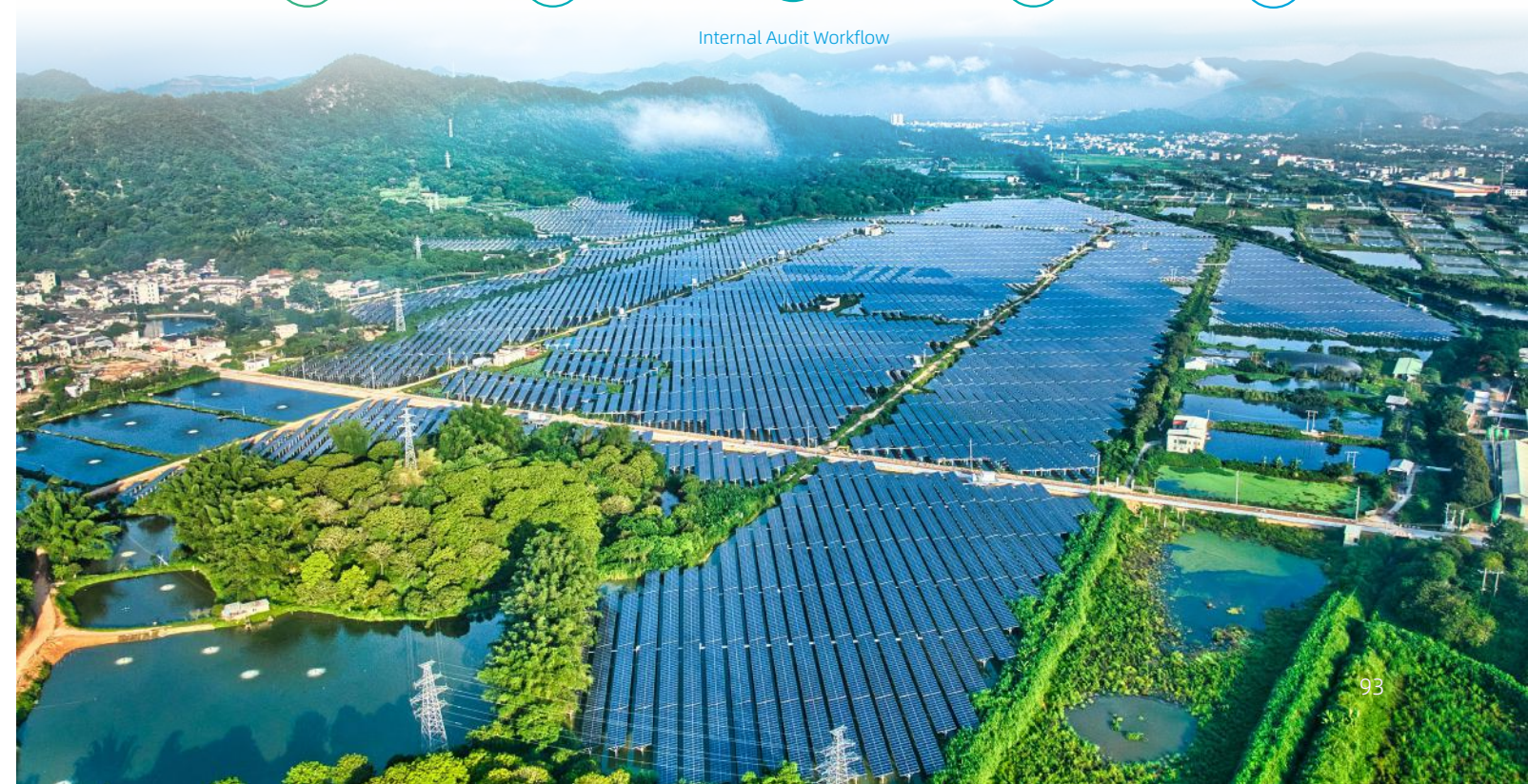
To mitigate the impact of risk events on the Company, we systematically identify operational risks and regularly conduct risk assessments to ensure that the Company's operations consistently comply with regulatory requirements. During the Reporting Period, no non-compliance incidents were identified through risk assessments.

The Legal Department regularly monitors the laws and regulations applicable to both domestic and international operational locations to ensure that Company policies remain fully aligned with the latest requirements. Furthermore, we conduct quarterly reviews of the internal control management systems across all Company departments, implementing necessary revisions or additions to departmental policies in line with business needs. During the Reporting Period, we completed the annual audit of the Company's management systems and carried out comprehensive quarterly reviews of the systems across 10 Company departments. Based on the review and analysis results, the Company has revised and enhanced the *Internal Audit Management System*, *Internal Control Management System*, and *Authority and Responsibility Process Management System* at the corporate level. Additionally, nearly 50 departmental systems were updated, and approximately 10 new departmental management systems were established.

Furthermore, we conduct regular internal audits strictly in accordance with the *Internal Audit Management System*, independently and objectively assessing the authenticity, legality, and compliance of the economic activities of all departments, holding subsidiaries, and relevant responsible personnel on a quarterly basis. No significant violations were identified during the Reporting Period.



Internal Audit Workflow





# Appendix

## Appendix I: Key Performance Table

### Environmental Key Performance Table

Indicator	Unit	2022	2023	2024
Climate Change <sup>14</sup>				
Scope 1 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	8,504.60	21,396.44	21,766.24
Scope 2 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	277,964.90	964,674.12	1,141,615.73
Total Scope 1 and Scope 2 Greenhouse Gas Emissions	Tonnes of Carbon Dioxide Equivalent	286,469.50	986,070.57	1,163,381.97
Scope 1 and Scope 2 Greenhouse Gas Emission Intensity	Tonnes of Carbon Dioxide Equivalent per MW <sup>15</sup>	20.62	25.39	29.50
Tonnes of Carbon Dioxide Equivalent per MW	Tonnes of Carbon Dioxide Equivalent	/	11,948.69 <sup>16</sup>	1,731,545.87 <sup>17</sup>
Energy Consumption				
Natural Gas	Ten Thousand Cubic Meters	6.64	19.87	16.42
Gasoline	Ten Thousand Liters	1.31	2.31	2.82
Diesel	Ten Thousand Liters	0.92	2.31	1.80
Purchased Electricity	Ten thousand kilowatt-hours	48,119.34	166,742.60	188,136.44
Purchased Steam	Ten thousand tons	3.32	11.98	7.51
Total Energy Consumption <sup>18</sup>	Ten thousand tons of standard coal <sup>19</sup>	6.24	21.65	23.85
Energy Consumption Intensity	Tons of standard coal per MW	4.49	5.57	6.05
Total Direct Energy Consumption	Tons of standard coal	113.61	317.53	270.76
Direct Energy Consumption Intensity	Tons of standard coal per MW	0.008	0.008	0.007
Total Indirect Energy Consumption	Tons of standard coal	62,251.78	216,171.16	238,265.10
Indirect Energy Consumption Intensity	Tons of standard coal per MW	4.48	5.57	6.04

<sup>14</sup> The boundary for Scope 1 and Scope 2 carbon emissions statistics includes the Group headquarters and all production bases operational as of 31 December 2024.

<sup>15</sup> In the Report, the statistical criteria for greenhouse gas emissions, energy consumption, water resource consumption, and three-waste discharge density indicators are based on the total output of cell and module products.

<sup>16</sup> The 2023 Scope 3 carbon emissions boundary includes Jiangsu Longheng and Solarspace Xuzhou bases.

<sup>17</sup> The 2024 Scope 3 carbon emissions boundary includes the Group headquarters, Solarspace Xuzhou, and Laos bases.

<sup>18</sup> The statistical scope for total energy consumption and intensity includes direct energy consumption (natural gas, gasoline, and diesel) and indirect energy consumption (purchased electricity and purchased steam).

<sup>19</sup> The calculation methods and coefficients for energy consumption units (converted to standard coal) are based on the *General Rules for Comprehensive Energy Consumption Calculation (GB/T 2589-2020)* issued by the State Administration for Market Regulation and the Standardization Administration of China.

Indicator	Unit	2022	2023	2024
Total Renewable Energy Consumption	Ten thousand kilowatt-hours	531.32	1,173.88	2,176.24
Proportion of Renewable Energy Electricity Consumption	%	1.09	0.70	1.14
Water Consumption				
Total Water Resource Consumption	Ten thousand tons	568.83	1,859.89	1,655.33
Water Resource Consumption Intensity	Tons per MW	409.42	478.89	419.71
Total Water Resource Recovery and Reuse	Ten thousand tons	11.27	226.22	228.33
Air Emissions				
Total Waste Gas Emissions	Tons	17.42	54.54	35.80
Waste Gas Emission Intensity	Tons per MW	0.0013	0.0014	0.0009
Volatile Organic Compound (VOC) Emissions	Tons	6.15	7.04	7.39
Nitrogen Oxide Emissions	Tons	4.45	8.53	4.21
Sulfide Emissions	Tons	/	0.04	0.00
Particulate Matter Emissions	Tons	1.81	7.01	6.59
Emissions of Other Waste Gas Pollutants	Tons	5.01	31.91	17.61
Wastewater Discharge				
Total Wastewater Discharge	Ten thousand tons	280.18	1,038.10	1,148.23
Wastewater Discharge Intensity	Tons per MW	201.66	267.29	291.13
Chemical Oxygen Demand (COD) Discharge	Tons	188.11	471.75	423.32
Total Nitrogen Discharge	Tons	54.26	87.62	86.00
Ammonia Nitrogen Discharge	Tons	31.74	32.44	25.86
Total Phosphorus Discharge	Tons	0.23	3.24	3.18
Waste Disposal				
Total Hazardous Waste Generated	Tons	40.32	164.60	146.90
Hazardous Waste Generation Density	Tons per MW	0.0029	0.0042	0.0037
Total Non-Hazardous Waste Generated	Tons	14,822.45	50,367.68	41,585.94
Non-Hazardous Waste Generation Density	Tons per MW	1.07	1.30	1.05
Total Waste Recycled	Tons	3,503.57	7,515.09	8,232.15



Social Key Performance Table

Indicator	Unit	2022	2023	2024
Employment				
Total Number of Employees	Employees	5,587	9,264	5,201
By Gender				
Male Employees	Employees	3,530	6,410	3,670
Female Employees	Employees	1,647	2,750	1,531
By Age Group				
16-30	Employees	2,552	4,998	2,500
31-40	Employees	2,385	3,799	2,332
≥ 41	Employees	240	373	369
By Region				
China	Employees	5,170	8,173	3,164
Overseas	Employees	7	987	2,037
Diversity, Equality and Inclusion				
Number of incidents of discrimination	/	/	/	0
Percentage of employees from minority and/or disadvantaged groups <sup>20</sup> in the total workforce	%	/	/	17.53
Percentage of employees from minority and/or disadvantaged groups in the senior management team	%	/	/	3.70
Percentage of employees receiving diversity, discrimination and harassment awareness training	%	/	/	100
Percentage receiving awareness training on child labor, forced labor and/or human trafficking	%	/	/	100
Employee Turnover Rate				
Voluntary Employee Turnover Rate	%	6.37	9.15	7.64
Employee Turnover Rate by Gender				
Male Employees	%	6.63	9.44	7.79
Female Employees	%	5.84	8.52	7.27
Employee Turnover Rate by Age Group				
16-30	%	7.41	10.60	9.44
31-40	%	5.45	7.59	5.85
≥ 41	%	3.86	5.45	3.56

<sup>20</sup> Minority refers here to various characteristics such as race, religion, disability or gender identity.  
Vulnerable groups are those whose special conditions in terms of physical, social, political, economic or personality characteristics place them at risk of greater burdens in the workplace. Examples include children and adolescents, older persons, persons with disabilities or refugees.

Indicator	Unit	2022	2023	2024
Employee Turnover Rate by Region				
Domestic	%	6.37	8.95	6.04
Overseas	%	0.00	11.40	10.72
Training and Development				
Total Employee Training Hours	Hours	11,047	82,253	88,356
Average Training Hours per Employee	Hours	5.14	5.57	5.92
Number of Employees Trained by Job Level				
Middle and Senior Management	Employees	/	/	187
Frontline Employees	Employees	/	/	5,014
Number of Employees Trained by Gender				
Male Employees	Employees	/	/	3,670
Female Employees	Employees	/	/	1,531
Training Coverage by Job Level				
Middle and Senior Management	%	/	/	3.6
Frontline Employees	%	/	/	96.4
Training Coverage by Gender				
Male Employees	%	/	/	70.56
Female Employees	%	/	/	29.44
Average Training Hours by Job Level				
Middle and Senior Management	Hours	/	/	2.90
Frontline Employees	Hours	/	/	6.30
Average Training Hours by Gender				
Male Employees	Hours	/	/	5.90
Female Employees	Hours	/	/	6.90
Occupational Health and Safety				
Number of work-related fatalities	Employees	0	0	0
Work-related fatality rate	%	0	0	0
Lost workdays due to occupational injuries	Days	267	2,028	1,405
Employees Receiving Occupational Health and Safety Training	Number of Participants	/	/	140,738
Coverage Rate of Employee Health and Safety Training	%	/	/	100



Indicator	Unit	2022	2023	2024
Community Engagement				
Charitable donations	Yuan	/	/	99,286
Supplier Management:				
Total Number of Suppliers	Units	/	/	141
Number of Suppliers in Mainland China	Units	/	/	130
Number of Suppliers in Overseas Regions	Units	/	/	11

Governance Key Performance Table

Indicator	Unit	2022	2023	2024
Employment				
Number of Business Ethics and Anti-corruption Training Sessions Conducted	sessions	/	/	5
Total Hours of Employee Business Ethics Training	Hours	/	/	30
Cumulative Number of Participants in Business Ethics Training	Employees	/	/	600
Business Ethics Training Coverage Rate – Directors	%	/	/	100%
Business Ethics Training Coverage Rate – Management Personnel	%	/	/	100%
Business Ethics Training Coverage Rate – Frontline Employees	%	/	/	70%
Number of Business Ethics and Anti-corruption Reports	cases	/	/	0

Appendix II: HKEX ESG Reporting Guide Index

Disclosure Requirements		Disclosure Status	Relevant Chapter or Explanation
Mandatory Disclosure Requirements			
Governance Structure		Disclosed	Governance Capability – Corporate Governance
Reporting Principles		Disclosed	About The Report
Reporting Scope		Disclosed	About The Report
'Comply or Explain' Clause			
Aspect A1: Emissions			
General Disclosures		Disclosed	Excellence in New Energy - Ecological Conservation
A1.1	The types of emissions and respective emissions data	Disclosed	Excellence in New Energy - Ecological Conservation Environmental Key Performance Indicators Table
A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions (in tonnes) and where appropriate, intensity (e.g., per unit of production volume, per facility).	Disclosed	Excellence in New Energy - Climate Change Mitigation Environmental Key Performance Indicators Table
A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility).	Disclosed	Excellence in New Energy - Ecological Conservation Environmental Key Performance Indicators Table
A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility).	Disclosed	Excellence in New Energy - Ecological Conservation Environmental Key Performance Indicators Table
A1.5	Description of emission target(s) set and steps taken to achieve them.	Disclosed	Excellence in New Energy - Ecological Conservation
A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them.	Disclosed	Excellence in New Energy - Ecological Conservation
Aspect A2: Use of Resources			
General Disclosures		Disclosed	Excellence in New Energy - Energy Management Water Resource Management
A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total (kWh in '000s) and intensity (e.g. per unit of production volume, per facility).	Disclosed	Excellence in New Energy - Energy Management Environmental Key Performance Indicators Table
A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility).	Disclosed	Excellence in New Energy - Water Resource Management Environmental Key Performance Indicators Table
A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them.	Disclosed	Excellence in New Energy - Energy Management



Disclosure Requirements		Disclosure Status	Relevant Chapter or Explanation
A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency target(s) set and steps taken to achieve them	Disclosed	Excellence in New Energy - Water Resource Management
A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced.	Disclosed	Excellence in New Energy - Ecological Conservation
Aspect A3: Environment and Natural Resources			
General Disclosures		Disclosed	Excellence in New Energy - Environmental Management
A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	Disclosed	Excellence in New Energy - Environmental Management
Aspect A4: Climate Change			
[Repealed 1 January 2025]		Disclosed	Excellence in New Energy - Climate Change Mitigation
A4.1	[Repealed 1 January 2025]	Disclosed	Excellence in New Energy - Climate Change Mitigation
Aspect B1: Employment			
General Disclosures		Disclosed	Value Creation - Labor Rights and Welfare
B1.1	Total workforce by gender, employment type (for example, full- or parttime), age group and geographical region.	Disclosed	Value Creation - Labor Rights and Welfare Social Key Performance Indicators
B1.2	Employee turnover rate by gender, age group and geographical region.	Disclosed	Social Key Performance Indicators
Aspect B2: Health and Safety			
General Disclosures		Disclosed	Value Creation - Occupational Health and Safety
B2.1	Number and rate of work-related fatalities occurred in each of the past three years including the reporting year	Disclosed	Value Creation - Occupational Health and Safety Social Key Performance Indicators
B2.2	Lost days due to work injury	Disclosed	Value Creation - Occupational Health and Safety Social Key Performance Indicators
B2.3	Description of occupational health and safety measures adopted, and how they are implemented and monitored.	Disclosed	Value Creation - Occupational Health and Safety
Aspect B3: Development and Training			
General Disclosures			Value Creation - Talent Development and Training
B3.1	The percentage of employees trained by gender and employee category (e.g. senior management, middle management).	Disclosed	Value Creation - Talent Development and Training Social Key Performance Indicators
B3.2	The average training hours completed per employee by gender and employee category	Disclosed	Value Creation - Talent Development and Training Social Key Performance Indicators
Aspect B4: Labour Standards			
General Disclosures			Value Creation - Labor Rights and Welfare

Disclosure Requirements		Disclosure Status	Relevant Chapter or Explanation
B4.1	Description of measures to review employment practices to avoid child and forced labour.	Disclosed	Value Creation - Labor Rights and Welfare
B4.2	Description of steps taken to eliminate such practices when discovered.	Disclosed	Value Creation - Labor Rights and Welfare
Aspect B5: Supply Chain Management			
General Disclosures		Disclosed	Excellence in New Energy
B5.1	Number of suppliers by geographical region	Disclosed	Zhuoyue New Energy - Sustainable Supply Chain
B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored.	Disclosed	Zhuoyue New Energy - Sustainable Supply Chain
B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored..	Disclosed	Zhuoyue New Energy - Sustainable Supply Chain
B5.4	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored.	Disclosed	Zhuoyue New Energy - Sustainable Supply Chain
Aspect B6: Product Responsibility			
General Disclosures		Disclosed	Excellence in New Energy
B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons.	Disclosed	Zhuoyue New Energy - Product Safety and Quality
B6.2	Number of products and service related complaints received and how they are dealt with.	Disclosed	Zhuoyue New Energy - Customer Service
B6.3	Description of practices relating to observing and protecting intellectual property rights.	Disclosed	Zhuoyue New Energy - Clean Technology Research and Development
B6.4	Description of quality assurance process and recall procedures.	Disclosed	Zhuoyue New Energy - Product Safety and Quality
B6.5	escription of consumer data protection and privacy policies, and how they are implemented and monitored.	Disclosed	Zhuoyue New Energy - Customer Service
Aspect B7: Anti-corruption			
General Disclosures		Disclosed	Governance-Driven Excellence
B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the Reporting Period and the outcomes of the cases.	Disclosed	Yizhijianneng - Business Ethics
B7.2	Description of preventive measures and whistle-blowing procedures, and how they are implemented and monitored.	Disclosed	Yizhijianneng - Business Ethics
B7.3	Description of anti-corruption training provided to directors and staff.	Disclosed	Yizhijianneng - Business Ethics
Aspect B8: Community Investment			
General Disclosures		Disclosed	Value Creation - Community Engagement
B8.1	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport).	Disclosed	Value Creation - Community Engagement
B8.2	Resources contributed (e.g. money or time) to the focus area.	Disclosed	Value Creation - Community Engagement Social Key Performance Indicators



Appendix III: GRI Content Index

Disclosure Item	Disclosure	Location
Universal Standards		
GRI 2: General Disclosures		
The organization and its reporting practices		
2-1	Organizational details	About The Report
2-2	Entities included in the organization's sustainability reporting	About The Report
2-3	Reporting period, frequency and contact point	About The Report
2-4	Restatements of information	Not applicable
2-5	External assurance	Appendix 4: Verification Statement
Activities and workers		
2-6	Activities, value chain and other business relationships	Sustainable Development Governance - Stakeholder Engagement
2-7	Employees	Value Creation
Governance		
2-9	Governance structure and composition	Governance-Driven Excellence - Corporate Governance
2-10	Nomination and selection of the highest governance body	Governance-Driven Excellence - Corporate Governance
2-11	Chair of the highest governance body	Governance-Driven Excellence - Corporate Governance
2-12	Role of the highest Role of the highest governance body in overseeing the management of impacts	Governance-Driven Excellence - Corporate Governance
2-13	Delegation of responsibility for managing impacts	Governance-Driven Excellence - Corporate Governance
2-14	Role of the highest governance body in sustainability reporting	Sustainable Development Governance - Sustainable Development Governance
2-16	Communication of critical concerns	Sustainable Development Governance - Stakeholder Engagement
Strategy, policies and practices		
2-22	Statement on sustainable development strategy	Sustainable Development Governance - Sustainable Development Strategy
2-23	Policy commitments	Sustainable Development Governance - Sustainable Development Strategy
2-24	Embedding policy commitments	Sustainable Development Governance - Sustainable Development Strategy
2-25	Processes to remediate negative impacts	Sustainable Development Governance - Sustainable Development Strategy
2-26	Mechanisms for seeking advice and raising concerns	Sustainable Development Governance - Sustainable Development Strategy
2-27	Compliance with laws and regulations	Sustainable Development Governance - Stakeholder Engageme

Disclosure Item	Disclosure	Location
Stakeholder engagement		
2-29	Approach to stakeholder engagement	Sustainable Development Governance - Stakeholder Engagement
2-30	Collective bargaining agreements	Value Creation - Labor Rights and Welfare
GRI 3: Material Topics		
3-1	Process to determine material topics	Sustainable Development Governance - Double Materiality Assessment
3-2	List of material topics	Sustainable Development Governance - Double Materiality Assessment
3-3	Management of material topics	Sustainable Development Governance - Double Materiality Assessment
Topic Standards		
GRI 201: Economic Performance		
201-2	Financial implications and other risks and opportunities due to climate change	Ecological Conservation - Climate Change Mitigation
201-3	Defined benefit plan obligations and other retirement plans	Value Creation - Labor Rights and Welfare
GRI 205: Anti-corruption		
205-1	Operations assessed for risks related to corruption	Governance-Driven Excellence - Business Ethics
205-2	Communication and training about anti-corruption policies and procedures	Governance-Driven Excellence - Business Ethics
205-3	Confirmed incidents of corruption and actions taken	Governance-Driven Excellence - Business Ethics
GRI 206: Undue competitive behavior		
206-1	Legal actions for anticompetitive behavior, anti-trust, and monopoly practices	Governance-Driven Excellence - Business Ethics
GRI 302: Energy		
302-1	Energy consumption within the organization	Ecological Conservation - Energy Management
302-3	Energy intensity	Ecological Conservation - Energy Management
302-4	Reduction of energy consumption	Ecological Conservation - Energy Management
GRI 303: Water and Effluents		
303-1	Interactions with water as a shared resource	Ecological Conservation - Water Resource Management
303-2	Management of water discharge related impacts	Ecological Conservation - Water Resource Management
303-3	Water withdrawal	Ecological Conservation - Water Resource Management
303-4	Water discharge	Ecological Conservation - Water Resource Management
303-5	Water consumption	Ecological Conservation - Water Resource Management
GRI 304: Biodiversity		
304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	Ecological Conservation - Ecological Conservation



Disclosure Item	Disclosure	Location
304-2	Significant impacts of activities, products and services on biodiversity	Ecological Conservation - Ecological Conservation
304-3	Habitats protected or restored	Ecological Conservation - Ecological Conservation
GRI 305: Emissions		
305-1	Direct (Scope 1) GHG emissions	Ecological Conservation - Climate Change Mitigation
305-2	Energy indirect (Scope 2) GHG emissions	Ecological Conservation - Climate Change Mitigation
305-4	GHG emissions intensity	Ecological Conservation - Climate Change Mitigation
305-5	Reduction of GHG emissions	Ecological Conservation - Climate Change Mitigation
305-7	Nitrogen oxides (NO <sub>x</sub> ), sulfur oxides (SO <sub>x</sub> ), and other significant air emissions	Ecological Conservation - Environmental Management
GRI 306: Waste		
306-1	Waste generation and significant waste-related impacts	Ecological Conservation - Environmental Management
306-2	Management of significant waste-related impacts	Ecological Conservation - Environmental Management
306-3	Waste generated	Ecological Conservation - Environmental Management
306-4	Waste diverted from disposal	Ecological Conservation - Environmental Management
306-5	Waste directed to disposal	Ecological Conservation - Environmental Management
GRI 308: Supplier Environmental Assessment		
308-1	New suppliers that were screened using environmental criteria	Excellence in New Energy - Sustainable Supply Chain
308-2	Negative environmental impacts in the supply chain and actions taken	Excellence in New Energy - Sustainable Supply Chain
GRI 401: Employment		
401-1	New employee hires and employee turnover	Value Creation - Labor Rights and Welfare
401-2	Benefits provided to full-time employees that are not provided to temporary or parttime employees	Value Creation - Labor Rights and Welfare
401-3	Parental leave	Value Creation - Labor Rights and Welfare
GRI 403: Occupational Health and Safety		
403-1	Occupational health and safety management system	Value Creation - Occupational Health and Safety
403-2	Hazard identification, risk assessment, and incident investigation	Value Creation - Occupational Health and Safety
403-3	Occupational health services	Value Creation - Occupational Health and Safety
403-4	Worker participation, consultation, and communication on occupational health and safety	Value Creation - Occupational Health and Safety
403-5	Worker training on occupational health and safety	Value Creation - Occupational Health and Safety
403-6	Promotion of worker health	Value Creation - Occupational Health and Safety
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	Value Creation - Occupational Health and Safety
403-8	Workers covered by an occupational health and safety management system	Value Creation - Occupational Health and Safety
403-9	Work-related injuries	Value Creation - Occupational Health and Safety
403-10	Work-related ill health	Value Creation - Occupational Health and Safety

Disclosure Item	Disclosure	Location
GRI 404: Training and Education		
404-1	Average hours of training per year per employee	Value Creation - Talent Development and Training
404-2	Programs for upgrading employee skills and transition assistance programs	Value Creation - Talent Development and Training
404-3	Percentage of employees receiving regular performance and career development reviews	Value Creation - Talent Development and Training
GRI 405: Diversity and Equal Opportunity		
405-1	Diversity of governance bodies and employees	Value Creation - Labor Rights and Welfare
GRI 406: Non-discrimination		
406-1	Incidents of discrimination and corrective actions taken	Value Creation - Labor Rights and Welfare
GRI 407: Freedom of Association and Collective Bargaining		
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	Value Creation - Labor Rights and Welfare
GRI 408: Child Labor		
408-1	Operations and suppliers at significant risk for incidents of child labor	Value Creation - Labor Rights and Welfare
GRI 409: Forced or Compulsory Labor		
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	Value Creation - Labor Rights and Welfare
GRI 413: Local Communities		
413-1	Operations with local community engagement, impact assessments, and development programs	Value Creation - Community Engagement
413-2	Operations with significant actual and potential negative impacts on local communities	Value Creation - Community Engagement
GRI 414: Supplier Social Assessment		
414-1	New suppliers that were screened using social criteria	Excellence in New Energy - Sustainable Supply Chain
414-2	Negative social impacts in the supply chain and actions taken	Excellence in New Energy - Sustainable Supply Chain
GRI 416: Customer Health and Safety		
416-1	Assessment of the health and safety impacts of product and service categories	Excellence in New Energy - Customer Service
416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	Excellence in New Energy - Customer Service
GRI 417: Marketing and Labeling		
417-1	Requirements for product and service information and labeling	Excellence in New Energy - Customer Service
417-2	Incidents of non-compliance concerning product and service information and labeling	Excellence in New Energy - Customer Service
417-3	Incidents of non-compliance concerning marketing communications	Excellence in New Energy - Customer Service



Appendix IV: Independent Verification Statement

Independent Verification Statement



Verification Statement: EIV2 119035 0004 Rev. 00

To the management and stakeholders of SolarSpace Technology Co., Ltd.,

TÜV SÜD Certification and Testing (China) Co., Ltd. (hereinafter referred to as “TÜV SÜD”) has been engaged by SolarSpace Technology Co., Ltd. (hereinafter referred to as “SolarSpace” or “the Company”) to perform an independent third-party verification on *2024 Environmental, Social and Governance Report* (hereinafter referred to as “the Report”). During this verification, TÜV SÜD's verification team strictly abided by the contract signed with SolarSpace and provided verification regarding the Report in accordance with the provisions agreed by both parties and within the authorized scope stipulated in the contract.

This Independent Verification Statement is based on the data and information collected by SolarSpace and provided to TÜV SÜD. The scope of verification is limited to the given information. SolarSpace shall be held accountable for authenticity and completeness of the provided data and information (contains assumptions, projections, and/or historical facts).

Scope of Verification

Time frame of this verification:

- ❖ The Report contains the data disclosed by SolarSpace during the reporting period from January 1<sup>st</sup>, 2024 to December 31<sup>st</sup>, 2024, including governance, environmental and social information and data, methods for management of material issues, actions/measures and the Company's sustainability performance during the reporting period.

Physical boundary of this verification:

- ❖ The on-site verification sampling took place at below listed location:  
29 Gaixin Road, Economic and Technological Development Zone, Xuzhou, China

Scope of data and information for the verification:

- ❖ The scope of verification is limited to the data and information of SolarSpace and all companies under its operational control covered by the Report;
- ❖ The report is prepared with reference to Appendix C2 *Environmental, Social and Governance Reporting Code of The Stock Exchange of Hong Kong Limited's Securities Listing Rules*, and with reference to the *GRI Sustainability Reporting Standards (2021 Edition)* and the United Nations Sustainable Development Goals.

The following information and data are beyond the scope of this verification:

- ❖ Any information and contents beyond the reporting period of this Report; and
- ❖ The data and information of SolarSpace's suppliers, partners and other third parties; and
- ❖ The financial data and information disclosed in this Report that have been audited by an independent third party are not verified again herein.

Limitations

- ❖ The verification process is conducted in the above scope and places. Sampling and verification are adopted for the data and information in the Report by TÜV SÜD, and only the stakeholders within the Company are interviewed; and
- ❖ The Company's standpoint, opinions, forward-looking statements and predictive information as well as the historical data and information before January 1<sup>st</sup>, 2024 are beyond the scope of this verification.

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- ❖ TÜV SÜD's verification conclusions are based on the analysis of the data and information collected by TÜV SÜD and may not identify all problems and conditions, nor constitute a guarantee of the credibility or status of the subject of verification.

Basis for the Verification

This verification process was conducted by TÜV SÜD's expert team with extensive experience in the governance, environmental and social and other relevant areas and drew the conclusions thereof. The verification conforms to the following standards:

- ❖ *International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information, Limited Assurance*
- ❖ *Sustainability report verification programme operation rule (CCB\_EIV\_GR\_002E Rev02)*

In order to perform adequate verification in accordance with the contract and provide reasonable verification for the conclusions, the verification team conducted the following activities:

- ❖ Preliminary investigation of the relevant information before the verification;
- ❖ Confirmation of the presence of the topics with high level of materiality and performance in the Report;
- ❖ On-site review of all supporting documents, data and other information provided by SolarSpace; tracing and verification of key performance information;
- ❖ Special interview with the representative of SolarSpace's management; interviews with the employees related to collection, compilation and reporting of the disclosed information; and
- ❖ Other procedures deemed necessary by the verification team.

Verification Conclusions

According to the verification, we believe that the data and information presented in SolarSpace's report are objective, factual and reliable, without systematic problems, and can be used by stakeholders.

The verification team has drawn the following conclusions on this Report:

Inclusivity	SolarSpace has identified the internal and external stakeholders such shareholders and investors, customers, employees, government and regulatory agencies, suppliers and partners, communities and the public, media, etc., and established a stakeholder communication mechanism to collect the demands of stakeholders on a regular basis.
Materiality	SolarSpace has established a regular analysis mechanism for material ESG issues, identifying environmental, social and governance issues from double materiality of "materiality to economic, social and environmental impact" and " materiality to corporate finance", with forming a matrix of material issues.
Responsiveness	SolarSpace has disclosed the actions it takes to manage issues of financial materiality and/or impact materiality and their related impacts, in order to fully respond to the demands and expectations of stakeholders, such as product safety and quality, customer service, sustainable supply chain, energy management, etc.
Impact	SolarSpace has established an ESG governance structure consisting of "governance layer, management layer and executive layer". As the highest decision-making body on ESG matters,

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# Independent Verification Statement



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the Board of Directors leads and makes overall decisions on ESG management, including ESG matter approval and risk management, ESG strategy and goal review, goal achievement supervision and annual ESG report review.

## Recommendations on Continuous Improvement


- ❖ The verification team has passed the improvement proposal to the management of SolarSpace during the on-site implementation process.

## Statement on Independence and Verification Capability

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specializes in testing, certification, auditing and advisory services. Since 1866, the company has remained committed to its purpose of enabling progress by protecting people, the environment and assets from technology-related risks. Today, TÜV SÜD is present in over 1,000 locations worldwide with its headquarters in Munich, Germany. Through expert teams represented by more than 26,000 employees, it adds value to customers and partners by enabling market access and managing risks. By anticipating technological developments and facilitating change, TÜV SÜD inspires trust in a physical and digital world to create a safer and more sustainable future.

TÜV SÜD Certification and Testing (China) Co., Ltd. is one of TÜV SÜD's global branches and has an expert team whose members have professional background and rich industrial experiences. TÜV SÜD and SolarSpace are two entities independent of each other and both TÜV SÜD and SolarSpace and their branches or stakeholders have no conflict of interest. No member of the verification team has business relationship with the Company. The verification is completely neutral. All the data and information in the Report are provided by SolarSpace. TÜV SÜD has not been involved in preparation and drafting of the Report, except for the verification itself and issuance of the verification statement.

**Signature:**  
**On Behalf of TÜV SÜD Certification and Testing (China) Co., Ltd.**

  
Zhu Wenjun  
TÜV SÜD Sustainability Authorized Signatory Officer  
April 18<sup>th</sup>, 2025  
Shanghai, China

Note: In case of any inconsistency or discrepancy, the simplified Chinese version "Independent Verification Statement CN" of this verification statement shall prevail, while the English translation is used for reference only.

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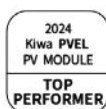
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