

2023 Sustainability Report

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About this report

Introduction

Sunpower Group presents its seventh Environmental, Social, and Governance ("ESG") report aimed at systematically disclosing the ESG strategies, policies, measures, and results of the Group and its subsidiaries while addressing the expectations and concerns of its stakeholders. This report has been reviewed by the Board of Directors, who individually and jointly assume responsibility for the truthfulness, accuracy, and completeness of the information contained.

Time Range

This report covers information and data from January 1 to December 31, 2023 (hereinafter referred to as the "Reporting Period"), with some sections addressing performance from previous years.

Reporting Scope \bigotimes

This report encompasses Sunpower Group and its subsidiaries.

Basis for Preparation

This report is prepared in accordance with the Sustainability Reporting Guide released by Singapore Exchange Securities Trading Limited ("SGX-ST"). It continues to adhere to globally recognised frameworks and disclosure practices to ensure compliance with global best practices and provide accessible and comparable information. Additionally, the report is prepared in accordance with the GRI Sustainability Reporting Standards (GRI Standards) issued by the Global Sustainability Standards Board ("GSSB"). It also references and aligns to the United Nations Sustainable Development Goals ("SDGs").

Notes on Definition

For the convenience of expression and reading, "Sunpower Group" is also referred to as "Sunpower", "the Group", and "we" in this report.

Notes on Data

The information and data presented in this report have been sourced from the Group's official documents, internal statistics, and the relevant public information. Unless stated otherwise, all monetary values in this report are in RMB.

How to Access this Report 垣

This report is released in electronic format and is available on both the Singapore Exchange website (https://www.sgx. com) and our official website (https://sunpower.listedcompany.com).



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Chairman's Statement

As a trailblazer in the circular economy, Sunpower Group is well-positioned to seize opportunities arising from the global energy transition as it strategically expands into clean energy, and consistently contributes to China's national agenda of achieving the Carbon Peak and Carbon Neutrality ("dual carbon") goals. By the end of 2023, we have invested in 11 Green Investment ("GI") projects with an annual group revenue of RMB 3.403 billion in FY2023, securing our position amongst the China Energy Group Top 500 List. Throughout this year, we have remained steadfast in upholding the principle of "profitable environmental protection", ensuring the Group's robust and stable performance while continually advancing towards environmental and social sustainability.

Pressing onwards, we have fortified the bedrock of our progress. Suppower Group, anchored by its holistic approach to organisational advancement, continues to reinforce its governance framework. With an unwavering commitment to upholding high ethical standards, we have further optimised our risk management protocols, maximising the efficacy of our governance efforts. Simultaneously, we have continued to refine our ESG management structure, seamlessly integrating ESG factors into the overarching strategic trajectory and day-to-day operations of the Group. This strategic alignment allows us to effectively address the expectations of various stakeholders and propel the Group's governance standards to new heights.

Pioneering sustainable practices, we stand as custodians

of the environment. Sunpower Group's long-term strategies and operational focus align with national environmental protection and energy conservation policies. Moreover, we are committed to implementing low-carbon development, environmental stewardship, and ecological preservation in our daily operations. Leveraging a robust environmental management framework, we have initiated organised environmental compliance efforts, rigorously controlled pollutant emissions in line with stringent standards, and effectively enhanced resource utilisation rates. Through a series of technological upgrades and process optimisations, we have achieved a paradigm shift towards green and low-carbon operations. Additionally, we have integrated the governance structure on climate change into our comprehensive governance framework, enabling us to conduct comprehensive assessments of climate risks and opportunities and thus fortify our resilience and adaptability in the face of climate-related challenges.

Upholding integrity and fostering innovation, we have strengthened our credentials as champions of sustainability. Sunpower Group, geared towards a green and low-carbon transition in the energy sector, has harnessed patented environmental protection and

energy-saving technologies that are both efficient and generate low emissions to provide economical, reliable, and efficient clean energy solutions. We have consistently worked towards addressing the steam supply needs of industrial parks and heating supply needs of urban residents. Focusing on innovation across three key domains-environmental protection technology, energysaving technology, and steam transportation-we have empowered downstream enterprises to mitigate emissions, reduce consumption, and transition towards low-carbon operations. Our unwavering commitment to quality excellence, coupled with a dedication to impeccable service, has amplified our competitive edge in the industry, culminating in a strong brand reputation and cultivating long-term trust amongst our clientele.

Fostering collaboration in earnest, we embrace a brighter future together. Recognising talent as a cornerstone of organisational success. Sunpower Group has harnessed the synergy of school-enterprise partnerships to cultivate a strong pipeline of high-caliber professionals as well as establish platforms to provide learning opportunities and facilitate employee growth. We safeguard the fundamental rights and interests of our employees, offer diverse channels for them to exchange ideas, and organise a wide array of activities, demonstrating the Group's genuine care for its workforce. Our unwavering commitment to work safety underscores our focus on the occupational safety of employees, as we enhance protective measures and foster a culture of safety consciousness to safeguard the health and wellbeing of every employee. Through continual refinement of our supplier management framework, we have successfully built a reliable, safe, and sustainable industry ecosystem with our valued partners. Guided by the ethos of "never forgetting the water source when drinking water", we have spearheaded a myriad of philanthropic initiatives, championed local green programmes, and fulfilled our commitment to social responsibility, thus fostering a green, civilized, harmonious, and prosperous community.

We continue to stride steadfastly towards our goals. Looking ahead, Sunpower Group remains resolute in its strategic goal of becoming a leading supplier of clean steam and industrial services. We stand poised to be a pioneer in the fields of the dual carbon agenda and ESG practices. Harnessing our advantage in energy conservation and emission reduction, we continue to advance green and low-carbon socio-economic development and embark towards a future of mutual success and shared prosperity together with our stakeholders.

About Sunpower Group

Corporate Profile

Headquartered in Nanjing, Jiangsu Province, Sunpower Group Ltd. was founded in 1997 and listed on the Singapore Exchange (SGX stock code: 5GD.SI) in 2005. Guided by a commitment to Green Investments, the Group firmly seizes opportunities arising from the energy transition, we strategically expand into the clean steam sector, aiming to provide cost-effective, reliable, and efficient clean steam and industrial services to our users that reduce pollutant emissions and safeguard the ecological environment. Furthermore, we continuously explore methods for recycling materials and implementing multi-level energy utilisation, striving to emerge as a an integrated service provider that applies the circular economy model and tiered energy utilisation approach.

At Sunpower Group, we are dedicated to be the core element of circular economy and sustainable energy practices within the circular economy industrial park. We focus on four key areas: smog control, energy-saving and emission-reduction initiatives, circular economy, and sustainable development. Strategically, we develop in the following areas, such as centralised heating, combined heat and power generation, clean coal technologies, application of renewable energies such as biomass as feedstock, urban and industrial sludge treatment, comprehensive solid waste management, and to explore other clean energy and energyefficient environmental technologies in the future.

Sunpower Group is dedicated to the principles of reuse and recycling, promoting a circular economy within industrial parks, and enhancing the industrial ecosystem. We have established a shared platform for direct energy supply and resource utilisation among enterprises, making it easier for materials to be recycled, energy to be utilised at multiple levels, and waste to be comprehensively managed. Additionally, we are committed to reducing production costs for downstream enterprises, and improving resource and energy efficiency.

The Group continues to expand its business presence. As of the end of the Reporting Period, it essentially established a strategic development layout centered around Nanjing, with the Yangtze River Delta as its core, covering the Pearl River Delta and the Bohai Economic Rim.



History of Sunpower Group

1997	Date of incorporation.	2016	Phased achievements in GI business and three
1998	Obtained the first national patent and participated in the National West-to-East Gas Transmission Project.	2017	CDH and DCP Capital completed the first rour bonds ("CBs") to help achieve development of
2000	Became a designated supplier of "three barrels of oil" in China and started supplying high-end equipment to BASF.		four projects put into operation and five proje Project, contracted by Sunpower Environment "National Quality Engineering Award".
2003	Developed low-temperature heat rods for frozen soil solidification project to overcome the key difficulties of opening Qinghai-Tibet Railway in China.	2018	CDH and DCP Capital committed to a second US\$20 million of CBs have been issued. The billion in on-hand orders. GI projects achieved
2005	Listed on the Singapore Stock Exchange (SGX) Promoted internationalisation strategies.		construction. Won the first prize for scientific a
2006	First China Standard Innovation Contribution Award; Construction of China's first zero liquid discharge device for high concentration saline wastewater (ZLD Project).	2019	Attained the inaugural Deloitte Best Managed Group Top 500 List and ranked 354th. M&A of
2007	Established an Engineering and Technology Research Centre of High-efficiency Industrial Energy-saving Equipment in Jiangsu Province.	2020	Expanded GI portfolio with nine projects in o Project's new facility moved from trial prod
2008	Signed a strategic cooperation agreement with the Chinese Academy of Sciences on Permafrost Engineering and established the Nanjing Permafrost Engineering Centre of the Chinese Academy of Sciences; Sinopec's strategic partner for export integration.		for two new GI projects, Tongshan Project an M&S business on 31 December 2020. FY20 while PATMI hit record of RMB 377.0 million.
2009	Expanded global market footprint to more than 20 countries.	2021	The disposal of the M&S business was compaid from the majority of the net proceeds
2010	The National Standard for Special Tubes for High Efficiency Heat Exchangers was formally issued and implemented.		operational, 1 in trial production and 1 under in May 2021 following the completion of the completed the city heating network system for
2011	The National Standards of Heat Rod and Coreless Heat Pipe were approved and promulgated. Breakthrough in the Middle East market with products exported to Saudi Arabia.	2022	GI project portfolio of 11 projects, with 10 pr expected to start trial operation in 2023. P
2012	Recognised as a well-known trademark in China. Signed Asia Regional Strategic Cooperation Agreement with Germany's BASF.		operation. Xinjiang Project met the require construction of pipeline network and officially heating to new concession areas in Jimo Tra of distribution pipeline to supply industrial s
2014	Achieved the localisation of LNG gasifier equipment. Undertook the largest coal-to-olefin project in the world.	0007	the pipeline network of Jining Project comme
2015	Established the Clean Energy segment to formally enter the Green Investments business. Formally became one of Shell's three global strategic suppliers of flare system Enterprise Framework Agreement ("EFA") in Asia.	2023 •	The Group ranked 432nd in the Chinese En Project and Shantou Project obtained the en safety management system certification from 0 project portfolio comprises 11 operational proje

ee major projects were put into construction.

and of investment in US\$110 million of the Company's convertible f GI business. Successful launch of initial GI project portfolio, with jects under construction. Shenhua Shaanxi Methanol Processing ntal Protection Engineering Services General Contract, won the

ad round of investment of up to US\$70 million in CBs, of which e Manufacturing & Services ("M&S") segment exceeded RMB 2 d scale, with seven operational projects and five projects under and technological progress from Sinopec.

Companies of China award. First ever entry into China Energy Suyuan Plant. Eight GI investment projects in operation.

operation. Shantou Project phase 1 and part of Xintai Zhengda duction to commercial operation phase. Construction started and Shanxi Xinjiang Project. Announced its plans to divest the 2020 revenue rose 12.6% YoY to record RMB 4,058.8 million

mpleted and a special dividend of RMB 1.1627 per share was s. Built up sizeable GI project portfolio of 11 projects, with 9 er construction. Steam supply to new customer Sanli started ne pipeline connection from Changrun Project. Xinyuan Plant for the new concession area in Jimo International Trade Park.

projects in operation and 1 project essentially completed and Phase 1 and Phase 2 of Shantou Project are in commercial rements of trial operation. Tongshan Project completed the ly supplied steam and heating. Xinyuan Plant started providing rade Park. Xintai Project successfully completed the extension steam to a major customer's Phase 3. Phase 2 expansion of henced construction in 2022.

nergy Group Top 500 List. On November 20, 2023, Changrun nvironmental management system and occupational health and China Quality Mark Certification Group. Currently, the Group's Gl ects.

Honours and Awards

In 2023, Sunpower Group garnered praise from government entities and clients alike, receiving numerous awards and letters of appreciation due to its strong capabilities and excellent service. This recognition not only motivates us but also reinforces our sense of responsibility. The Group remains committed to upholding the philosophy of "profitable environmental protection," dedicating itself wholeheartedly to serving clients, ensuring their satisfaction, and earning the trust of the government. With unwavering determination, we strive to pioneer new paths and embark on the next chapter together.







01.ESG Management





At Sunpower Group, we steadfastly adhere to the principles of sustainable development, integrating ESG factors into our daily decision-making and operational management. We focused on enhancing our ESG management structure, bolstering corporate governance transparency, and actively addressing the concerns and expectations of all stakeholders. Additionally, we identified material ESG topics to ensure robust business operations and the steady implementation of our sustainable goals.



1.1 ESG Management Structure

Sunpower Group has established a clear and efficient ESG management structure characterised by accountability and coordination with effective management procedures put in place. Through this framework, the Group incorporates the concept of sustainability into its business strategy and operational practices.

The ESG management structure comprises the Board of Directors, the Sustainable Development Committee, the Sustainable Development Team, and functional departments. Together, they drive the efficient implementation of ESG management initiatives within the Group and ensure the effective execution of ESG policies and measures. The Board of Directors, as the highest governing body responsible for ESG governance, oversees decision-making and approval of the Group's ESG strategies, policies, and objectives. Additionally, it reviews ESG performance, progress towards key targets, and information disclosure. The Sustainable Development Committee, comprising the Board of Directors and senior executives, acts as a supervisory and coordinating entity and assists the Board of Directors in formulating the Group's ESG strategy and objectives. The Committee supervises the specific implementation progress of ESG matters and regularly report updates to the Board. Under this Committee, the Sustainable Development Team, comprising executives and heads from diverse functional departments, executes ESG activities and ensures the implementation of the sustainable development strategy across the Group.

Sunpower Group encourages all employees, including senior management and department heads, to actively engage in the journey towards sustainable development management. To ensure the effective implementation of various measures, we integrate key performance indicators ("KPIs") related to the management of sustainable development, such as compliance management, occupational health and safety, environmental responsibility, labour management, and climate change, into individual performance evaluations. This ensures the effectiveness of our management practices.



ESG Management Structure

1.2 Statement of the Board of Directors

Scope of Responsibility

As the highest decision-making body overseeing ESG efforts within the Group, the Board of Directors is responsible for formulating the Group's sustainable development strategy, approving ESG policies and objectives, and overseeing all matters pertaining to sustainable development. The Board supervises the effectiveness of sustainability management methods and reviews the progress of the Group's ESG objectives, bearing primary responsibility for the Group's ESG performance. Additionally, the Board authorises the Sustainable Development Committee to assist in supervising the implementation of ESG strategies and advancing the Group's sustainability process.

ESG Risk Management

The Board of Directors maintains a continuous focus on ESG risks and material topics relevant to the Group's business operations and oversees ESG matters through its Sustainable Development Committee. The Committee consistently identifies and assesses all relevant ESG risks associated with the Group's operations, integrates them into the risk management system for comprehensive monitoring and ultimately reports the results of risk management to the Board.

Management of Material Topics

Sunpower Group promptly identifies, assesses, and tracks the key ESG concerns of stakeholders and responds to their expectations through effective communication channels. On an annual basis, the Board of Directors engages in the assessment, prioritisation, and final confirmation of material topics, thereby determining those crucial to the Group's development and forming a materiality matrix. This process further clarifies the direction and focus of ESG management.

Daily Execution and Participation

The Board of Directors actively participates in the daily oversight of ESG-related matters to ensure that management integrates ESG factors into day-to-day operations and strategic decisions. During the Reporting Period, the Board engaged in discussions to identify material topics for the Group and approved both the materiality matrix and ESG management priorities. In the review of this year's ESG report, the Board evaluated the Group's management of ESG issues and progress toward goals, offering recommendations for improvement and ultimately endorsing the publication of this ESG report.

Additionally, the Board emphasises the importance of enhancing its understanding of ESG, and continuously reinforces its comprehension of ESG domains through participating in sustainable development training, which ensures a strong foundation for more scientific decision-making advice.

1.3 Assessment of Material Topics

Sunpower Group fully recognises the importance of environmental, social, and economic impacts on both the Group and its stakeholders and consistently identifies and evaluates material ESG topics pertinent to the Group. We have compiled a repository of ESG material topics for 2023 through peer benchmarking analysis and stakeholder surveys, taking into account our history, future positioning, regulatory requirements of the Singapore Exchange and international reporting standards. Adhering to the double materiality principle, we conducted impact analysis and prioritised these material topics, resulting in the formation of a materiality matrix, which was then approved by the Board of Directors.

To further respond to stakeholders' expectations and to showcase the Group's performance across various ESG topics, Sunpower has included the theme of "Innovation and R&D" in its 2023 ESG report. This report will primarily focus on disclosing the progress of management practices for each topic.

$\, \mathcal{L}\,$ Topic Identification

• This includes analysing the ESG information disclosure requirements of the Singapore Exchange and international reporting standards. It also includes peer disclosure and practice benchmarking research, as well as reference to external policies and capital market trends. The Group compiled a preliminary list of 15 material topics based on its unique circumstances.

Topic Research

 Based on the identified ESG topics, a stakeholder questionnaire was prepared to investigate the main concerns of internal and external stakeholders of the Group regarding each topic, including employees, government/ regulatory agencies, shareholders/investors, customers, the public, and suppliers/partners. A total of 249 valid questionnaires were collected during the Reporting Period.

$\overset{\frown}{\frown}$ Topic Prioritisation

 Based on the feedback from stakeholders, a materiality matrix was created after the topics were prioritised based on their significance to the development of Sunpower Group and their significance to stakeholders.

⇐ Topic Review

 This includes reviewing the selected list of topics by the management and external ESG experts before being approved by the Board of Directors. This matrix of material topics serves as a critical reference for Sunpower Group's information disclosure in its 2023 Sustainability Report and presents a direction for ESG management priorities in the next year.

Identification and Assessment of Material Topics



1.4 ESG Goals and Commitments

Sunpower Group is committed to addressing its material topics and setting targeted management objectives for each ESG topic to drive the Group's ESG efforts forward. In this report, we also clearly showcase the Group's contributions across various topics and support stakeholders in overseeing our continuous improvement in sustainability performance.

Environment

Material Topics		Goals and Commitments
Environmental Management		 The Group aims to continuously improve the coverage of environmental management system certification. The Group strives to strengthen environmental management responsibilities, establish a sound environmental accountability system, rigorously manage environmental facilities, implement compliance reviews, and ensure environmental compliance. The Group is committed to conducting awareness campaigns and training sessions on environmental protection and low-carbon initiatives, and enhancing employee awareness of environmental protection.
Emission Management	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	 The Group is dedicated to strengthening the management of wastewater, exhaust gas, solid waste, and noise in accordance with national and local environmental protection policies, and ensuring up-to-standard emissions. The target for 2023 is to reduce the wastewater discharge rate by 1% compared to 2022, and the target has been achieved. The target for 2024 is that the wastewater discharge rate will not increase further compared to 2023.
Energy, Water and Materials		 The Group aims to improve the comprehensive utilisation rate of energy and water resources through facility upgrades, operational adjustments, new technology adoption, and innovation. The Group is committed to promoting green office practices by adopting online communication methods to reduce the consumption of office supplies. The target for 2023 is to reduce the water consumption intensity by 1% compared to 2022, and the target has been achieved. The target for 2024 is to reduce the water consumption intensity (measured in tons of water consumption per ton of steam sold) by 1% compared to 2023.
Climate Change and Greenhouse Gases	• 》	 The Group aims to phase out the use of outdated extraction condensing turbines and focus on improving the thermal efficiency of turbines. By ensuring the turbines operate efficiently through technological innovation and maintenance, the Group is committed to increasing steam output per ton of materials, reducing consumption of standard coal per ton of steam, and reducing carbon emissions per ton of steam. The Group plans to keep the carbon dioxide emission for steam and heating supply below 0.1105 tCO₂/GJ and that for electricity supply below 0.9903 tCO₂/MWh.

Social

Material Topics	Goals and Commitments
Innovation and R&D	 The Group is committed to proactively exploring and consolidating innovative er to construct more boilers using agricultu The Group strives to apply for and o framework.
Quality Management	 The Group is committed to standardii 2.3% and ensuring safe and steady ec The Group aims to standardise oper- production system by establishing and The Group pledges to strictly control p
Customer Service	 The Group is dedicated to providing e save energy and reduce consumption The Group strives to improve its serv the goal of 100% complaint response
Protection of the Rights and Interests of Employees	 The Group aims to enhance policies a audits to ensure compliance and effect The Group is dedicated ensuring development, and promotion. The Group is committed to improvin feedback, and continuously increasing
Staff Training and Development	 The Group plans to improve the entrangeted career training to help emple The Group is committed to establishing employee performance and promotion
Occupational Health and Safety	 The Group is committed to implement foster a safe work environment. The Group aims to continuously implement system certifications. The Group aims to ensure that no maintains a 100% occupational health
Supply Chain Management	 The Group aims to continuously optim quality supply of fuels and maintain su The Group is committed to improving supplier ESG performance during the The Group endeavours to strengthen bribery clauses into all types of contra
Contribution to the Community and Society	 The Group is committed to maintain governmental organisations and active
Governance	
Material Topics	Goals and Commitments
Operational and Economic Performance	The Group is committed to ensuring stab
Corporate Governance	 The Group strives to establish smoot their rights and interests, and enhance The Group aims to enhance its ESG may The Group plans to convene the Pick

major risks.

Business Ethics and • The Group aims to maintain a 100% signing rate for the Commitment Letter of Integrity Performance among employees. The Group is committed to conducting awareness-raising campaigns and training sessions on anti-Anti-corruption corruption annually.

promoting energy transition and the circular economy, and continuously environmental technologies. To reduce the use of fossil fuels, it also pledges ural and forestry waste and to install such a boiler in 2024. obtain more intellectual property rights, and optimise its internal R&D lising operational processes to keep the pipeline damage rate below equipment operation. rating procedures and ensure the safe and stable operation of the nd implementing equipment maintenance plans. product quality to avoid customer complaints due to product defects. excellent customer service and assisting customers with initiatives to rvice provision and promptly handle customer complaints to achieve rate and systems on human resources management and conduct regular ectiveness of management measures. all employees have equal opportunities in recruitment, career ving the compensation and benefits system, listening to employee ng employee satisfaction. employee training and development system, with annual plans for ployees enhance their skills and performance. hing clear and transparent promotion pathways, and fairly assessing ion outcomes to ensure fair talent selection practices. ent national laws and regulations on workplace safety and strives to prove the coverage of occupational health and safety management work-related deaths or occupational disease incidents occur and h examination rate for employees. imise supplier management mechanisms to ensure the safe and highsupply chain stability. ng the sustainable supply chain management system and focusing on e entry and assessment stages. en supplier integrity management and incorporate anti-commercial racts. open communication channels with government agencies and nonvely participates in the development of its surrounding communities. able operation while continuously improving economic benefits. oth and effective communication channels for its shareholders, protect nce shareholders' value.

nanagement system to integrate the ESG concept into business operations. • The Group plans to convene the Risk Management Committee meeting annually to control and prevent

1.5 Stakeholder Engagement

Sunpower Group is committed to fostering long-term, positive relationships with stakeholders through open dialogue, collaboration, and proactive responses to their expectations. We have established regular communication mechanisms through various channels, including our official website, WeChat official account, email, and questionnaires, to interact with stakeholders and gather their feedback on our ESG management practices. Stakeholder concerns are considered significant factors in shaping our ESG strategies and objectives, prompting us to take timely actions to strengthen our internal ESG management system while meeting stakeholders' reasonable demands.

Stakeholders	Topics of Concern	Communication and Engagement
Government/regulators	 Corporate governance Business ethics and anticorruption Climate change and greenhouse gases 	 Regular reporting and communication Cooperation with supervision and inspection On-site visit and investigation
Shareholders/investors	 Corporate governance Operational and economic performance Energy, water and materials 	 General meetings of shareholders Formal information disclosure according to the relevant rules Quarterly/semi-annual/annual financial reports Group presentations, non-deal roadshows, and one-on-one meetings as required
Employees	 Protection of the rights and interests of employees Occupational health and safety Employee training and development 	 Employee training Workers' Representative Congress Surveys on employee satisfaction and commitment



Concern	Communication and Engagement
management cs and n	On-site communicationRegular inspection
vice gement	Official websiteWeChat official account
al management nagement r and materials ge and gases	 Regular publication of the Sustainability Report according to the relevant rules Disclosure of operational and environmental data
to the community	 Charity activities Volunteering activities Social media
\$	

02.Environment

SDGs



GRI metrics

GRI 305, GRI 306

Sunpower Group remains steadfast in its commitment to forge a more environmentally friendly future, with a keen focus on low-carbon development, environmental governance, and ecological protection. As we continuously explore clean energy sources and other green technologies, we are also building a comprehensive environmental management system from within, rigorously promoting environmental compliance, enhancing resource utilisation efficiency, and minimising the negative impact of our operations on the environment. Through the provision of low-carbon products and services, we strive to promote the sustainable development of the value chain.



2.1 Environmental Management

Sunpower Group places great importance on environmental management throughout its business operations. By establishing a comprehensive environmental management system, setting environmental management objectives, enhancing internal and external audit and supervision, and regularly conducting relevant training, we perform environmental management activities in an organised manner.

Governance Structure and Policy

The management team is responsible for overseeing the Group's comprehensive environmental management strategy and ensuring the implementation of environmental policies and improvements in environmental performance. Additionally, the Health, Safety, and Environment ("HSE") Department is tasked with coordinating and guiding various departments in implementing environmental management measures, as well as monitoring and documenting environmental performance in daily operations.

Sunpower Group strictly adheres to all applicable laws and regulations where it operates, including the Environmental Protection Law of the People's Republic of China, the Regulations on the Administration of Environmental Protection Management of Construction Projects, and the Interim Measures on the Environmental Inspection of Completed Construction Projects. We continuously refine our internal environmental protection management policies and systems such as the Management System on Environmental Protection, the CEMS Equipment Management System, the Environmental Protection Equipment Maintenance Regulations, and the Measures for "Three Simultaneities" of Construction Project. Guided by the principle of "giving priority to protection, putting prevention first, and comprehensive management," the Group is committed to ensuring strict compliance with all applicable external laws and regulations, industry standards, industry practices, and internal standards in all operational activities.

Our Measures

Environmental Management System

Suppower Group constructs its environmental management system based on external environmental management standards. Through the establishment and implementation of HSE-management system standards, the Group integrates HSE requirements into its day-to-day business operations and activities. This approach not only enhances the Group's overall management but also plays a crucial role in preventing and reducing environmental pollution. To ensure compliance with emission standards, we conduct regular compliance checks on pollution discharge permits for each unit, conduct internal and external audits, and record and retain inspection results. We promptly urge responsible units to rectify any identified issues. Additionally, in response to environmental pollution incidents, we have developed environmental emergency plans to promptly address them and mitigate their adverse impacts on the environment.

During the Reporting Period, Hebei Changrun Project and Shantou Project obtained their environmental management system certifications.



Environmental Management System Certification

Environmental Protection Training

Sunpower Group encourages all employees to engage in environmental management by regularly organising energy conservation and educational activities. These initiatives are designed to heighten the environmental awareness of all staff members and to integrate green and sustainable concepts into their professional and personal lives. To further enhance employees' understanding of environmental protection and improve the overall environmental responsibility within the Group, we conduct training sessions on environmental protection, energy conservation, and emission reduction for employees at all levels, including Board members. Additionally, we provide specialised training for personnel involved in environmental management.

Specialised Training on Pollutant Discharge Permit Management/Solid Waste and **Hazardous Waste Standardised Management**

During the reporting period, Sunpower Group participated in specialised training sessions on pollutant discharge permit management/solid waste and hazardous waste standardised management conducted by government agencies. This initiative aimed to enhance employees' professionalism in the field of legalised and compliant pollutant discharge, promote standardised environmental management within the Group, and further advance its commitment to sustainable development.



Participants at Pollutant Discharge Permit Management Training Session

Performance

In 2023

Operational rate of environmental protection facilities

100%

Up-to-standard pollutant discharge

100%

Administrative penalties related to environmental issues or complaints from surrounding communities

Uadministrative penalty or complaint

2.2 Emission Management

Sunpower Group is committed to reducing the emission of pollutants. We have established internal systems and control procedures for pollutant management and emission control. We are taking proactive measures to strengthen emission management, reduce emissions, and minimise pollution.

Governance Structure and Policy

Sunpower Group strictly adheres to applicable laws, regulations, and standards where it operates, including the Atmospheric Pollution Prevention and Control Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, the Law of the People's Republic of China on the Prevention and Control of Solid Waste Pollution, and the National Catalogue of Hazardous Wastes. We continuously optimise our internal emission management systems to ensure compliance. Each project subsidiary develops corresponding standard operating procedures for emission management facilities based on these systems and actual circumstances, aiming to guide and efficiently promote the implementation of respective emission management tasks. Furthermore, we engage professional organisations to conduct regular inspections of emission facilities, ensuring that all emissions are legally disposed of, and pollutants are only released after meeting stringent emission requirements.

Our Measures

Waste Management

Sunpower Group complies with relevant laws and regulations governing the collection, classification, storage, and transportation of various types of waste to prevent environmental pollution and ensure regulatory compliance. To ensure proper waste management and minimise our environmental footprint, both non-hazardous and hazardous waste generated by the Group are sorted and collected on-site. Subsequently, they are entrusted to qualified third-party companies for disposal that meets stringent standards.

Hazardous waste primarily originates from construction and operational activities within the Group. We have established dedicated storage facilities for hazardous waste and implemented measures such as containment, runoff prevention, leakage prevention, and rain proofing. Additionally, we perform regular maintenance and inspections, promptly conducting repairs or replacements in case of damage or leaks. We also label our storage containers and areas as required by regulations and place warning signs. Furthermore, the Group enlists qualified third parties to dispose of hazardous waste, aiming to minimise pollution risks during the disposal process.

The Group's non-hazardous waste primarily consists of office waste, household waste, construction debris, and general industrial solid waste. To foster resource recycling and reuse, we have established construction waste sorting stations and enclosed household waste recycling facilities to collect and reuse recyclable non-hazardous waste. During the Reporting Period, Sunpower Group assisted the industrial parks in the comprehensive treatment and utilisation of 52,713.83 tons of sludge. Additionally, the 608,686.29 tons of general industrial solid waste generated by the Group were all transported for comprehensive utilisation by qualified third-party organisations.

Wastewater Management

Sunpower Group, in its commitment to compliance with emission regulations, endeavours to minimise wastewater discharge to mitigate adverse effects on the surrounding environment. We strictly adhere to all applicable laws and regulations where we operate, implement classified disposal measures, and install secondary sedimentation tanks to ensure the up-to-standard discharge of wastewater after it is treated and meets water quality standards. Furthermore, we aim to further reduce wastewater discharge through initiatives such as equipment upgrades.

Additionally, the Group conducts regular internal inspections and external testing in accordance with the requirements of emission permits. During the Reporting Period, all sewage discharge from Sunpower Group met water quality standards as per the results of internal and external testing.



Desulfurisation System Upgrades at Lianshui Project

During the Reporting Period, Lianshui Project detected that the fluids produced by the desulfurisation system had a substantial concentration of ammonia and nitrogen at the critical threshold, potentially clogging the desulfurisation heat exchangers and desulfurisation tower nozzles, which led to decreased efficiency. To effectively address this risk, Sunpower Group installed an additional pre-treatment system. This new system can efficiently reduce the salt content without sending wastewater for external treatment, ensuring the effective operation of equipment while saving on treatment costs.

Reverse Osmosis Water Filter System Upgrades at Lianshui Project

During the Reporting Period, Lianshui Project conducted technical upgrades on two reverse osmosis water filter systems ("ROA/B"). Due to a drop in temperature, the unit output of reverse osmosis water from the ROA/B systems decreased, failing to meet production demands. To address this issue, Lianshui Project replaced all 54 reverse osmosis membranes in the ROA system. Meanwhile, the membranes previously used in the ROA system were installed in the ROB system, effectively maximising resource utilisation.

Following the upgrades, the overall concentrate discharge from the ROA/B systems significantly decreased, and the inflow of water to the filter system also reduced. This achievement not only optimised operational costs but also resulted in less resource utilisation and wastewater discharge.

Boiler Flushing Water Collection System Upgrades at Xintai Zhengda Project

During the Reporting Period, Xintai Zhengda Project implemented upgrades to the flushing water collection system for three boilers. The water used for flushing ash from the preheater, superheater, and economiser was acidic and therefore should be collected separately. It needed centralised treatment before being safely discharged into the sewer. To improve wastewater treatment efficiency, Xintai Zhengda Project installed additional flexible hose bags at the bottom of the furnace. By diverting wastewater to an external drainage ditch for sedimentation, the Xintai Zhengda Project reduced wastewater treatment costs while achieving reuse purposes.

Install secondary sedimentation tanks at work sites of concrete mixers, concrete pumps, and the cleaning area for transportation vehicles. The secondary sedimentation water is used for sprinklers and dust removal but is not directly

Establish management records for wastewater collection and treatment facilities to standardise the collection of

Measure and dilute production wastewater, such as desulfurisation wastewater and acid-base regeneration wastewater, in

Measures for Up-to-standard Discharge and Reduction of Wastewater

Exhaust Gas Management

To effectively mitigate the environmental impact of exhaust gas emissions. Sunpower Group has implemented an exhaust gas management system to continuously monitor the emissions of flue gas and maintain management records of flue gas collection and treatment facilities. Additionally, through process optimisation and equipment upgrades, we ensure that exhaust gases are emitted within regulatory limits, thereby reducing uncontrolled emissions.

To address dust pollution, we have established a dust monitoring system to cover and stabilise dust-prone areas. We have also installed dust suppression sprayers for effective dust control and implemented greenery planting around construction sites. These efforts ensure stringent control over dust pollution generated during construction processes.

Upgrades to Ammonia Liquid Vaporisation System in Denitrification Furnace at **Yongxing Plant**

During the Reporting Period, Yongxing Plant experienced exacerbated ash accumulation in the low-temperature air preheater and low-temperature economiser at the tail end of the boiler due to ammonia leakage. This led to a rapid escalation in the baghouse differential pressure and flue gas temperature, consequently resulting in increased ammonia consumption. To address this issue, Yongxing Plant implemented a steam upgrading process to vapourise 20% of the ammonia liquid into gas. Additionally, a dilution fan was utilised to introduce the ammonia gas into the ammonia injection grid located in the vertical shaft flue of three furnace SCR units. This injected gas functioned as a denitrification reducing agent, reacting with nitrogen oxides present in the flue gas to achieve denitrification. As a result, emissions of nitrogen oxides met the required standards while simultaneously reducing ammonia liquid consumption.



Upgrades to Ammonia Liquid Vaporisation System in Denitrification Furnace

Changrun Project Implemented System Upgrades to Control Ammonia Escape

To ensure compliance with the stringent ammonia escape standards outlined in the Emission Standards for Pollutants from Coal-fired Power Plants in Hebei (DB13/2209-2015) released by the Department of Ecology and Environment of Hebei Province, Changrun Project undertook equipment modifications and process refinements within the desulfurisation system, and installed online monitoring apparatus at the flue gas discharge point, facilitating real-time tracking and transmission of parameter data.

To augment the desulfurisation system's operational capacity, Changrun Project added two supplementary absorption circulation pumps and large-diameter tangential cone nozzles. It also replaced ammonia injection chambers with barrels. These upgrades served to elevate the system's liquid-to-gas ratio and oxidation efficiency. Additionally, the system bolstered the third-stage water circulation volume through the incorporation of advanced demisting technology. Following the comprehensive modifications, both absorption towers have transitioned into trial operations, yielding a substantial reduction in ammonia escape concentration, well beneath regulatory thresholds. All other pollutant emission metrics remain in full compliance with prescribed standards.



System Upgrades to Control Ammonia Escape

Noise Management

During construction and operation, we proactively implement engineering and regulatory measures to mitigate noise. Sunpower Group strictly regulates construction schedules, monitors noise levels, and conducts on-site noise monitoring in real time to safeguard the well-being of surrounding residents and employees in their living and working environments.

Construction Stage

- construction process according to relevant regulations.
- measures.
- They are required to minimise noise disturbance from night-time construction activities.

Operational Stage

- Utilise equipment such as induced draft fans and blowers with soundproofing capabilities to minimise noise pollution during the production process.

Noise Control Measures

Performance

Indicator	2023	Unit
Wastewater Discharge		
Total amount of wastewater discharge	266.95	10,000 tons
Wastewater discharge rate	0.18	Wastewater discharge amount/ water consumption amount
Waste		
Amount of non-hazardous solid waste generated	608,726.03	Ton
Amount of hazardous waste generated	52.21	Ton
Treatment/disposal rate of solid waste	100	%
Waste discharge rate	0.04	Ton/Ton of steam
Exhaust Gas Emission		
Nitrogen oxide (NOx) emissions	476.43	Ton
Sulfur oxide (SOx) emissions	256.54	Ton
Dust emissions	48.15	Ton

• Implement noise reduction measures and report to the environmental authorities the equipment used during the

• Utilise machinery and tools with low noise and low vibration, and implement soundproofing and vibration isolation

· Construction workers use two-way radio for long-distance communication and are strictly prohibited from shouting.

• Use silencers during boiler discharge and pipeline purging processes, and notify surrounding residents in advance.

2.3 Energy, Water, and Materials

Sunpower Group places great emphasis on resource conservation and fully recognises the significance of resource management. We are dedicated to optimising resource utilisation to enhance energy efficiency, actively exploring clean energy applications, and efficiently recycling water resources and materials to minimise our environmental footprint. In doing so, we contribute significantly to sustainability efforts.

Governance Structure and Policy

Sunpower Group strictly adheres to all applicable laws and regulations where it operates, such as the *Energy Conservation Law* of the People's Republic of China. The Group has established a series of internal rules and regulations including the Regulatory Provisions on Coal, the Material Management System, the Waste Material Management System, the Technological Improvement Project Management System, the Small Target Competition System, and the Production Assessment and Management System. These systems are designed to advance the management efforts of energy, water, and materials.

The Group adheres to a management process aimed at controlling, supervising, and rectifying to prevent resource wastage and bolster resource efficiency. We set specific consumption targets for water, electricity, coal, steam, and chemicals for each project company based on the design parameters of facilities and technological upgrades. Additionally, we monitor and evaluate our monthly progress toward these targets. All projects are mandated to report their energy, water, and material usage, which undergoes thorough review by the Group. Furthermore, we conduct monthly statistical analyses of resource usage, identifying and rectifying any abnormal usage patterns. Subsequently, we adjust future usage strategies to optimise resource allocation and enhance overall operational efficiency.

Our Measures

Energy Management

Sunpower Group is dedicated to optimising energy usage and advancing energy-saving technologies to reduce unnecessary consumption, enhance energy efficiency, and explore scenarios for renewable energy applications. During the Reporting Period, the Group implemented several initiatives, including energy-saving renovations of energy-intensive equipment by adding frequency converters. These efforts aim to promote green operations and achieve a win-win situation in both economic benefits and environmental sustainability.

Variable Frequency Conversion of Changrun Project's Primary Water Supply System

Changrun Project's primary feed water system initially comprised three water pumps. Before renovation, when the main water flow dipped below 260 tons per hour, only one pump was switched on for operation; when the flow surpassed that threshold, two pumps sprang into action, operating at the standard power frequency. However, this mode of operation rendered the variable frequency pumps ineffective in regulation, leading to diminished pump efficiency and heightened power consumption.

In pursuit of enhanced energy efficiency, Changrun Project embarked on fundamental upgrades to the electrical choke room. It introduced two sets of high-voltage frequency converters and supplemented them with power-frequency cooling fans to optimise the cooling mechanism for the water pump motors. Through these refurbishments, both pumps now operate under the regulation of frequency converters, maintaining a consistent frequency range of 45-50 Hertz. This has effectively curtailed power consumption while bolstering operational steadiness.

Frequency Conversion Transformation of Boiler Induced Draft Fan in Yongxing Plant

To enhance energy efficiency and reduce power consumption, Yongxing Plant conducted a significant upgrade to the induced draft fans of its boilers. Previously, the high-pressure frequency converter of the fan operated inefficiently at a fixed frequency bypass mode, leading to excessive electricity consumption. Moreover, regular module replacements were necessary for uninterrupted operation, with each replacement consuming an additional 2 tons of fuel due to startup and shutdown procedures. The implementation of frequency conversion eliminates the need for unnecessary start-stop cycles of normally operating boilers, which is expected to result in substantial energy savings of approximately 5,000 KWH per operating day.

Variable Frequency Conversion of Suyuan Plant's Primary Fans in Boilers

The primary fans at Suyuan Plant operated at a fixed frequency. These fans incurred substantial electricity consumption due to the significant fluctuations in boiler peak and off-peak loads. During the Reporting Period, Suyuan Plant undertook a critical initiative to enhance energy efficiency by retrofitting variable frequency drives for its existing primary fans. The upgrade was executed to mitigate the electricity consumption. As a result of these enhancements, the daily electricity savings amounted to 6,180 KWH.

Development and Utilisation of Clean Energy

Based on its industry-specific characteristics and business operations, Sunpower Group maximizes the use of biomass and photovoltaic solutions to propel the development and utilization of clean energy sources, thereby advancing sustainable practices. Meanwhile, the Group fosters a culture of ongoing technological innovation to continuously enhance the efficiency of clean energy development and output, thereby contributing to the creation of a greener and more promising future.

Biomass Cogeneration Project

As of the end of the Reporting Period, Sunpower Group successfully commissioned and operated two biomass projects: Xintai Zhengda Project and Tongshan Project. During the Reporting Period, the Group utilized over 600,000 tons of agricultural and forestry waste, leading to the generation of approximately 470 million kilowatt-hours of clean electricity and the production of over 100,000 tons of steam. These endeavours represent a significant enhancement in the Group's capacity for resource reuse.

Jining Project Rooftop Solar PV Project

To diminish the consumption of fossil fuels and mitigate waste emissions while safeguarding the long-term energy security of the Group, Jining Project undertook a rooftop solar PV project. During the Reporting Period, the project has been operational with an installed capacity of 8.8 megawatts, generating an annual output of 10 million KWH. We plan to expand the total installed capacity by 2024, further reducing fossil fuel consumption and waste emissions.

Water Management

Effective management of water resources is crucial for the sustainability of business operations and the ecological environment. Sunpower Group has implemented comprehensive systems to regulate water usage in production, ensuring compliance with water withdrawal and usage regulations while minimizing unnecessary waste. Our water sources, which encompass municipal water, rivers and lakes, desalination water, and recycled water, are all covered by appropriate water usage permits.

To bolster water utilisation efficiency and reduce water usage costs, the Group has set clear water-saving targets and proactively implemented strategies to optimize water treatment processes, thereby driving efficiency gains and advancing our targets. We conduct routine inspections to promptly identify and rectify any leaks or other water-related inefficiencies, thereby minimizing unnecessary water wastage. Additionally, we have established a robust recycling framework and employed innovative techniques such as condensate water recovery to enhance water reutilization rates.

Upgrades to Changrun Project's Industrial Water Pipelines

To effectively address safety concerns and potential dangers arising from corroded and leaking industrial water pipelines within the premises of Changrun Project, proactive measures were taken. By replacing the aging pipes with overhead seamless piping, potential leaks in the industrial water system can be prevented. Meanwhile, efforts were made to ensure an adequate supply of cooling water for fan bearing operation, thereby safeguarding the normal and secure functioning of production equipment. The upgraded industrial water pipes not only reduced water consumption in the industrial water system but also enhanced the efficiency of water utilization, laying a robust foundation for the project's safe and steady operations over the long term.

Upgrades to Changrun Project's Pipelines of the Circulating Water Replenishment Tanks

The circulating water replenishment tanks at Changrun Project relied on mildly acidic reclaimed water from the sewage treatment plant, leading to corrosion of carbon steel pipelines and an excessive presence of iron ions in the circulating water. This could pose safety risks to the entire water pipeline infrastructure. To mitigate corrosion risks, Changrun Project replaced all replenishment pipelines with PE pipes. This action effectively eliminated corrosion issues, significantly improved water quality, and ensured the safe and steady operation of the facility's circulating and industrial water systems.

Upgrades to Yongxing Plant's Water Circulation System

During the Reporting Period, Yongxing Plant embarked on a comprehensive overhaul of its water circulation system to reduce overall energy consumption. The company abolished the previous buried main water circulation pipes and significantly improved water circulation efficiency through scientifically optimised circulation pathways. Addressing operational efficiency and stability concerns with the circulation pumps, Yongxing Plant conducted precision upgrades to the pumps and implemented a strategy of having one standby pump for each operational pump to ensure efficient and smooth operation. Through these systematic renovations, it achieved a reduction in the overall electricity consumption of the water circulation system.

Upgrades to Shanxi Xinjiang Project's Concentrated Wastewater Recycling Equipment

Shanxi Xinjiang Project proactively aligned with national water conservation policies, consistently enhancing the efficiency of water utilisation. During the reporting period, the company installed a new system for recovering and reusing concentrated wastewater, underscoring its commitment to water conservation and circular usage. This advanced equipment can efficiently collect and repurpose concentrated wastewater generated during production, complementing existing reuse infrastructure. The implementation of this system significantly boosted the amount of water recycled while reducing overall consumption.

Material Management

Sunpower Group is dedicated to minimising material usage while continuously improving utilisation rates and integrating principles of reduction, reuse, and recycling across all aspects of procurement, production, and operations. The Group has implemented a robust supply management system to standardise processes for planning, procurement, acceptance, storage, distribution, settlement, and recycling of materials. A comprehensive usage plan is developed for durable materials, and we adhere to the "zero inventory" approach based on the principle of "one out and one in" to ensure optimal material utilisation.

Green Office

Sunpower Group is committed to the principle of green and low-carbon practices. By implementing a range of measures within office areas to promote energy efficiency, resource conservation, and recycling, the Group pledges to march forward along the sustainability journey.

The Group has implemented water-saving fixtures in its restrooms, effectively reducing water wastage. Additionally, energyefficient LED lighting fixtures are extensively deployed across the premises, resulting in reduced electricity consumption. In terms of information dissemination and data management, various departments utilise online platforms such as the OA system, email system, and videoconferencing for efficient communication, which minimises offline approvals and conserves paper usage. Moreover, there is a gradual shift towards electronic document archiving, further optimising resource utilisation.

Performance

Indicator	2023	Unit
Water Usage		
Total water consumption	1,447.91	10,000 tons
Water consumption intensity (measured in tons of water consumption per ton of steam sold)	1.45	Ton of water/Ton of steam
Energy Usage		
Total energy consumption	4,616.72	10,000 GJ
Energy consumption intensity (measured in kilograms of standard coal consumption perton of steam produced)	104.55	Kg/Ton
Electricity consumption	37,309.88	10,000 KWH
Electricity consumption intensity (measured in kilowatts of electricity consumption per ton of steam produced)	24.76	KWH/ Ton



2.4 Climate Change and Greenhouse Gases

Sunpower Group proactively responds to international climate change initiatives and China's dual carbon goals. Following the disclosure recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), we have established a governance framework to systematically identify, assess, and address climate change risks.

Governance

The Board of Directors of the Group assumes regulatory responsibility for climate change risks, ensuring their integration into corporate strategy. Furthermore, the Board engages in discussions concerning the identification and assessment of climate change-related risks and opportunities, reviews progress toward objectives, and oversees the implementation and effectiveness of response measures and emergency mechanisms. The Sustainable Development Committee is tasked with identifying and evaluating the primary impacts of climate change on our actual business operations. It regularly discusses ESG-related risks, including those associated with climate change, evaluates the effectiveness and sufficiency of response measures, and reports findings to the Board. Under the Sustainable Development Committee, the Sustainable Development Team breaks down the risk management strategy for addressing climate change into tasks and measures. It formulates plans and programmes to achieve objectives and ensures their implementation by specific personnel across the Group. It also provides regular reports on ESG-related information. Additionally, the group has established a Carbon Emission Management Department tasked with advancing emission management efforts in daily operations, aiming to improve the emission management system and data supervision mechanisms.

Strategy

Addressing climate change is increasingly becoming a global consensus, Sunpower Group pledges to prioritise or adopt energy-saving and emission-reduction technologies in our decision-making process, as well as implement measures aimed at reducing greenhouse gas emissions. We are committed to continuously developing clean energy sources and promoting the transition of our value chain towards cleaner and more sustainable business models. To better address climate change and minimise the environmental impact of our business activities, we are implementing the following measures focused on energy conservation and carbon reduction:

Establishing a management mechanism to phase out the use of outdated extraction condensing turbines and enhance unit thermal efficiency. Increasing steam production per ton of raw materials through technological upgrades to reduce standard coal consumption per ton of steam produced and achieve a decrease in carbon emissions accordingly.



Ensuring efficient operation of units through technological innovation and maintenance to improve energy efficiency and ensure a steady decline in carbon emissions metric ton of steam within the Group.



Risk Management

Sunpower Group has conducted a comprehensive analysis of external factors such as government planning and policies, historical records of extreme weather events, as well as internal factors including operational characteristics and business plans. Through this analysis, we have identified climate change risks relevant to our operations. Subsequently, we have developed corresponding strategies to manage and mitigate the potential risks and adverse impacts of climate change on the business growth and operational management of the Group.

Phys	sical Risks	Potential Impacts	Response Strategies
	Typhoon	 Typhoons may destroy the operational pipeline network, equipment, and facilities, affect the stability of electricity and steam supply, and threaten the safety of employees and customers. This can lead to a breach of contract, compensation, and legal liability due to business interruption and other issues. 	 Formulate a typhoon emergency rescue plan. Use stronger facility and piping design to reinforce the equipment support. Raise flood control stairs in special areas to improve the resilience against natural disasters.
	Flood	 Floods may destroy the operational pipeline network and equipment and facilities, affect the stability of electricity and steam supply, threaten the safety of employees and customers, and increase the risk of flooding of equipment and facilities in low-lying areas. 	 Formulate a flood control and emergency rescue plan. Fully consider local precipitation and elevate reinforce infrastructure or add more drainage facilities during the design phase. Raise flood control stairs in special areas to improve the resilience against natural disasters.
Acute	Extreme Precipitation	• Extreme precipitation may destroy the operational pipeline network and equipment and facilities, affect the stability of electricity and steam supply, threaten the safety of employees and customers, and increase the risk of flooding of equipment and facilities in low-lying areas.	 Formulate a flood control and emergency rescue plan. Fully consider local precipitation and reinforce infrastructure or add more drainage facilities during the design phase. Raise flood control stairs in special areas to improve the resilience against natural disasters.
Risks		 Extremely hot weather may increase employee health and safety risks. This may increase the operating cost of on-site temperature control. This may also increase the maintenance cost of equipment and facilities. 	 Formulate an emergency rescue plan for hot weather and heatstroke. Arrange temperature control facilities such as sunshades, ventilation, and air conditioning. Prepare first-aid medicine for heatstroke.
	Extremely Cold Weather	 Extremely cold weather may increase employee health and safety risks. This may increase the operating cost of on-site temperature control. This may also increase the maintenance cost of equipment and facilities. 	 Formulate emergency rescue plans for extremely cold weather and implement measures of protection against freezing conditions to ensure the safety of personnel and equipment. Every winter, a working group for protection against freezing conditions is set up to carry out temperature forecast and analysis and resource matching in advance. Additionally, the working group monitors, analyses and reports changes in supply and demand, discusses and updates emergency measures, and ensures steady steam supply in winter. Arrange temperature control facilities such as heat preservation, heat tracing and air conditioning.
Chronic	Sea Level Rise	 Sea level rise may destroy existing operational pipeline network, equipment, and facilities. In addition, the possible migration of coastal cities inland affects the existing markets. 	Continuously monitor the trend of rising sea levels.Conduct prevention and emergency response research.
Risks	Global Warming	 Global warming may increase the risk of heat waves, droughts, and fires. It may also increase the maintenance cost of electricity and steam supply facilities. 	Formulate emergency rescue plans for extreme weather events and heatstroke.

Transition Risks	Potential Impacts	Response Strategies
Policy	The ongoing implementation of China's dual carbon goals and environmental protection policies may have adverse effects on coal- fired units.	
Technology	As the emission standards for exhaust gas continue to increase, some outdated processes and equipment will be rendered non-compliant.	In response to the evolving energy landscape, Sunpower Group will continue to increase investments and explore innovative energy- saving technologies to promote the low- carbon transformation of the energy structure. Additionally, the Group strategically develops businesses such as biomass cogeneration and other clean energy deployment to better meet future energy demands.
Market	Due to various factors such as the strict execution of environmental protection and dual carbon goals, as well as geopolitical issues, some downstream customers may face growing challenges and pressure.	

Performance and Indicators

To assist stakeholders in understanding our progress in addressing climate change and evaluating the effectiveness of related actions and plans, we have established targets to reduce greenhouse gas emission intensity. For updates on the progress of these targets for 2023, please refer to the section "ESG Goals and Commitments" in this report.

Going forward, Sunpower Group will consider developing longer-term, more detailed, and higher-standard emission reduction targets to support the national dual carbon goals.

The Group's carbon emission-related performance in 2023 is shown as follows:

Indicator	2023	Unit
Total greenhouse gas emissions	356.74	10,000 tons
Direct (Scope 1) greenhouse gas emissions	3,564,302.50	Ton of carbon dioxide
Indirect (Scope 2) greenhouse gas emissions	3,130.40	Ton of carbon dioxide
Greenhouse gas (steam and heating supply) emission intensity	0.1029	Ton/GJ
Greenhouse gas (electricity supply) emission intensity	0.3947	Ton/MWH
Direct (Scope 1) Greenhouse gas (steam and heating supply) emission intensity	0.1028	Ton/GJ
Direct (Scope 1) Greenhouse gas (electricity supply) emission intensity	0.3944	Ton/MWH
Indirect (Scope 2) Greenhouse gas (steam and heating supply) emission intensity	0.0001	Ton/GJ
Indirect (Scope 2) Greenhouse gas (electricity supply) emission intensity	0.0003	Ton/MWH



03.Society

SDGs



GRI metrics

GRI 2, GRI 3, GRI 201, GRI 203, GRI 308, GRI 401, GRI 403, GRI 404, GRI 405, GRI 406, GRI 407, GRI 408, GRI 409, GRI 413, GRI 414, GRI 416, GRI 418

Sunpower Group is dedicated to fostering innovation and upholding quality as the cornerstone of our operations. We consistently upgrade and optimise environmental protection technologies to deliver the best service experience to our customers, while also empowering both customers and society in their low-carbon transition. We adhere to a people-oriented management philosophy, prioritising the rights and interests of our employees and striving to create a harmonious, equitable, and safe working environment. This effort is aimed at fostering mutual growth for both employees and the Group. Additionally, we actively embrace corporate social responsibility and collaborate with suppliers and other industry partners to promote social sustainability.



3.1 Innovation and R&D

Sunpower Group remains steadfast in its commitment to the spirit of "Be wise and open-minded yet never extreme." The Group actively responds to the national dual carbon goals by continuously exploring innovative technologies that prioritise green solutions, energy efficiency, and environmental friendliness. Our aim is to expedite the low-carbon transformation of downstream enterprises. We are also intensifying our efforts to protect intellectual property rights and bolster our own technological capabilities and advantages. We are dedicated to contributing support for the sustainable development of the industrial value chain.

Governance Structure and Policy

As a comprehensive service provider for multi-level energy utilisation, Sunpower Group is dedicated to advancing the circular economy within downstream industrial parks. We utilise our environmental protection technologies to assist these parks in reaching their energy conservation and consumption reduction objectives. To achieve this, we have implemented the *Management Measures for Technological Upgrades and Expansion Projects*. We continuously develop innovative environmental technologies and enhance the effectiveness of our technology applications. Our goal is to offer users cost-effective, stable, and efficient clean energy solutions.



Concept and Direction of Technological Innovation

Our Measures

Sunpower Group capitalises on the opportunities presented by the low-carbon transformation and strategically positions itself within the environmental protection industry. This includes centralised heating/combined heat and power (CHP), clean utilisation of coal, investment in and development of clean energy solutions, urban and industrial sludge treatment and disposal, comprehensive management of general solid waste, and research and development of clean energy, energy conservation, and environmental protection technologies. We focus on innovation and research in three primary areas: environmental protection technology, and steam transportation technology. By continuously enhancing our capabilities in emission control and energy conservation, we aim to strengthen the core strength and competitiveness of the Group.

	Low Nitrogen Combustion Technology	Effectively re Achieve du
		Effectively
Environmental Protection	Desulfurisation and Denitrification Technology	Convert ree from flue g
Technologies		Achieve sul
	Smog and Ammonia Elimination Technology	Significantl and efficier
		Achieve nit
	High-efficiency Heat Exchange Technology	Implement and compr heat excha
Energy Conservation Technologies	Flue Gas Heat Exchange Technology	Recover the operation of enhance the pollution to
	Low-temperature Coal Saving Technology	Reduce the to 90°C to efficiency,
Low-	Significant Energy Savings	Utilise suit cost-effecti
Consumption and Long-Distance Transportation Technology of Steam	Intelligent Control of Pipeline Network	Enable onli monitoring, network, op
	Long-Distance Transportation	The covera a temperat no more th

To incentivise employees to actively engage in innovative research and development, we have explicitly outlined in the *Employee Handbook* a system for rewarding employees with various levels of cash bonuses based on their contributions, such as providing reasonable suggestions, making significant innovations, or upgrading technology and processes.

Additionally, we prioritise the protection and accumulation of intellectual property (IP) rights. Sunpower Group safeguards its legitimate rights and interests through patent applications while avoiding infringement on the intellectual property rights of others. We are fully committed to IP protection. During the Reporting Period, we organised patent application training sessions conducted by external professional organizations for personnel from both the headquarters and various project companies. These sessions aimed to enhance the patent drafting and application capabilities of participants and strengthen their awareness of IP protection. A total of 65 individuals participated in this training initiative.

reduce NOx emissions and maximise combustion efficiency.

dust emission of less than 5 mg/Nm³.

y prevent aerosol pollution.

recovered sulfur dioxide, nitrogen oxides, and other pollutants gas into marketable compound fertilisers.

sulfur dioxide emission of less than 35mg/Nm³.

tly reduce NO_x emission concentration while ensuring stable ent combustion, and maximise combustion thermal efficiency.

nitrogen oxide emission of less than 50mg/Nm³.

It high-efficiency heat exchange, high-efficiency combustion, prehensive waste heat utilisation techniques to increase boiler hange efficiency.

the heat from high-temperature flue gas to ensure the normal of the desulfurisation tower, reduce water consumption, and the tower's desulfurisation efficiency, thus reducing secondary to the atmosphere.

the flue gas temperature emitted by the boiler from 150° C to enhance boiler combustion efficiency and desulfurisation v_i , while reducing water consumption in the process by 50%.

itable composite insulation structure to achieve the optimal ctiveness during transportation.

nline leak detection, safety management, and real-time remote g, and achieve remote and centralised management of pipeline operational visualisation, and heating supply safety.

rage radius of heating supply can reach up to 30 km, achieving ature drop of no more than 2-5°C /km and a pressure drop of than 0.015-0.05 MPa/km.

A process for treating produced water from heavy oil recovery as boiler feed water A device and method for improving the quality of ammonium sulfate by-product in ammonia-based desulfurisation

Utility Model Patents

A system for recovering waste heat from desalination water absorption in power plants

A novel process device for flue gas desulfurisation and smog removal

A new ammonia-based desulfurisation device

An energy-saving and environmentally friendly device for utilising waste heat from flue gas

A Selected List of Sunpower Group's Patents

Sunpower Group actively participated in industry exchanges, consistently seeking to learn and adopt advanced environmental technologies, while also benefiting from valuable insights shared by industry peers. This commitment underscores our dedication to enhancing innovative development capabilities. During the Reporting Period, we participated in the inaugural Thermal Power Industry New Energy Storage Technology and Application Forum, co-organised by the China Energy Conservation Association and the China Electricity Technology Market Association. Additionally, we joined the National Thermal Power Plant Energy Saving, Efficiency Enhancement, and New Environmental Protection Technology Seminar, organised by the National Power Industry Association. These events played a crucial role in expanding our innovative thinking and strategic vision.

Performance



3.2 Quality Management and Customer Service

Sunpower Group adheres to a customer-centric service philosophy, continuously refining its quality management system, and prioritising the provision of high-quality steam and heating supply services. We are committed to offering customers stable, reliable, safe, and efficient clean energy solutions and strive to earn their long-term trust through continuous enhanced services.

Governance Structure and Policy

Sunpower Group has developed and implemented various policies and procedures, such as the Regulation on Production Operation, the Steam and Heating Supply Network Management System, and the Technical Supervision Management Procedures. We continuously enhance our mechanisms for equipment management, technical supervision, operational management, assessment management, and fuel management. We have established stringent management procedures for all project stages, from precommissioning to operation, delivery, and maintenance. We conduct comprehensive quality management and supervision throughout these stages, and maintain detailed records of professional equipment to ensure the safe and uninterrupted operation of units over the long term, thereby securing the consistent supply of high-quality energy to our customers.

Our Measures

Quality Assurance

We prioritise the guality of our products and services, primarily offering medium and low-pressure steam with pressures ranging from 0.6 MPa to 3.5 MPa and temperatures ranging from 180°C to 350°C. By adjusting steam pressure and temperature, we meet the diverse needs of our customers for steam and heating supply. To ensure a stable and continuous energy supply, we identify, classify, and control safety risks during the operations, commissioning, and maintenance of the steam pipeline network. We also conduct regular inspections and manage safety hazards. Additionally, we continuously improve our emergency power supply plans and develop contingency plans to ensure the safe and uninterrupted operation of our units.

We conduct guality assessments prior to project commissioning and strive to maintain high standards throughout production processes. Additionally, we perform post-delivery maintenance inspections to ensure comprehensive quality control across the entire project lifecycle.



• Enhance the regular inspection of heating network meters to ensure proper functioning, standardise instrument parameter settings, and promptly address any metering issues.

· Conduct a comprehensive review during the project development and design phase to fully

• Enhance material management and strictly enforce coal storage zoning to ensure the safety of

• Conduct safety inspections monthly to ensure the safe operation of pipelines and the stable

• Implement a routine inspection mechanism for the heating network, and strengthen emergency

• Regularly analyse and assess heating pipeline pressure, adjust parameters or improve pipeline

• Regularly inspect the steam pipeline network to promptly address any leaks or drips, thereby

Specialised Safety Inspection Campaign on Heating Networks

During the Reporting Period, Changrun Project conducted a specialised safety inspection campaign on heating pipeline networks in the summer, with a particular focus on low-lying areas where these pipelines are located. We intensified our efforts in inspecting these heating networks to prevent incidents of pipelines being buried by rainwater. Protective measures were implemented for pipelines located in low-lying or buried areas, significantly improving the detection rate of high-risk hazards in the heating network and the quality of corrective actions. Additionally, this specialised inspection activity contributed to enhancing the safety awareness of dedicated personnel and the reliability of heating network equipment, thereby improving their ability to identify and resolve issues.



Engineers Are Conducting Safety Inspection of Heating Networks

We also continuously enhance the quality management capabilities of our employees by organising regular specialised training sessions. Additionally, we promote the exchange of best practices in project quality management through the establishment of internal communication platforms.

Specialised Training Session on Heating Pipeline Damage Control

During the Reporting Period, we organised specialised training sessions for the personnel of each project company's heating network department to enhance their skills in pipeline damage control. These sessions focused on theoretical concepts to improve employees' technical expertise in heating network instrument maintenance. Furthermore, we established a platform for the exchange of ideas, knowledge, and best practices among them. By combining theoretical learning with practical discussions, we provided effective approaches to pipeline damage control in the heating network and encouraged project companies to jointly explore and resolve challenges in this area. This collaborative effort contributed valuable insights for quality control in subsequent projects.



Participants at the Specialised Training Session

Customer Service

Sunpower Group is committed to exceeding customer expectations by promptly and professionally responding to their needs. We strive to address customer concerns to the best of our ability and handle complaints responsibly.

The Group has implemented a return visit system to effectively meet customer needs and continuously enhance service quality by conducting regular on-site surveys to gauge customer experiences and gather feedback. We have adopted a butler service mode and a one-to-one community service approach to improve service efficiency and customer satisfaction. Furthermore, we maintain open channels for customer feedback and complaints, offering various avenues such as a 24-hour feedback hotline, dedicated hotlines for heating network issues, and a comprehensive affair handling platform. Dedicated personnel are appointed to ensure a thorough response to all issues, resulting in a 100% response rate for customer feedback.

We also prioritise service enhancement by regularly organising training sessions on topics such as product knowledge and user analysis. These events help ensure that all our employees are well-prepared to meet customer needs effectively.

Lianshui Project Provided Customers With Long-term and Premium Services

Lianshui Project has established a long-term and mutually beneficial partnership with its customers, providing various services such as policy interpretation, price consultation, coordination of steam usage during peak periods, and guidance on equipment maintenance. Continuously empowering customers in boiler usage, safe operation of hightemperature and high-pressure steam, energy conservation, and consumption reduction, it has consistently delivered comprehensive and premium after-sales services to its customers. For newly introduced enterprises in the local industrial park, the company promptly completed pipeline construction and resolved any issues encountered by new customers, ensuring smooth production activities for them. It has been widely recognised for its comprehensive and attentive service, and received commendations from multiple enterprises in the form of banners.

Performance





feedback hotline

Dedicated hotline for heating network issues

Comprehensive affair handling platform

3.3 Employee Rights and Interests Protection

Talent holds the key to a company's core competitiveness. Guided by a people-oriented philosophy, Sunpower Group has established diverse recruitment channels to attract talented individuals from various backgrounds. Meanwhile, we continuously enhance measures to safeguard employee rights and interests. Additionally, we prioritise the physical and mental wellbeing of our employees, demonstrating genuine care for their lives, and strive to create an inclusive and equitable work environment where every employee can thrive and feel valued.

Governance Structure and Policy

Sunpower Group adheres to the concept of "sharing responsibilities and creating careers together, sharing achievements and achieving win-win results in the future". We strictly abide by all applicable laws and regulations where we operate, including the Labor Law of the People's Republic of China, the Labor Contract Law of the People's Republic of China, the Law of the People's Republic of China on the Protection of Women's Rights and Interests, the Law of the People's Republic of China on the Protection of Minors, the Provisions on the Prohibition of Using Child Labor, and the Social Insurance Law of the People's Republic of China. The Group has established a robust human resources (HR) management framework, continuously refining recruitment standards and the compensation and benefits structure through the implementation of internal policies like the Employee Handbook, the Personnel Management System, and the Workers' Representative Congress System. This ensures allround protection of employees' fundamental rights and interests.

Our Measures

Talent Recruitment

Sunpower Group upholds the principle of equal employment and remains committed to fostering a diverse and equitable workplace. We strongly oppose all forms of discrimination based on age, nationality, marital status, race, colour, ethnicity, religion, physical condition, or gender identity throughout our recruitment and development processes. During the Reporting Period, no incidents of discrimination or harassment were reported.

Furthermore, we firmly prohibit all forms of child labour and forced labour and verify the age of new employees to ensure compliance with legal working age requirements. Sunpower Group is committed to promoting a diverse and inclusive corporate culture, ensuring that female employees have equal access to compensation, benefits, and career development opportunities.

We continuously explore flexible and diverse recruitment channels, including campus and social recruitment fairs, as well as internal referrals. Additionally, we organise more engaging recruitment activities to meet the long-term staffing needs of the Group. In 2023, Sunpower Group actively collaborated with universities, participated in job fairs at colleges, and organised special recruitment events to attract outstanding talents from diverse backgrounds.

Sunpower Group and Baoding Technical College of Electric Power Held a Symposium on School-Enterprise Collaboration

Sunpower Group, in its ongoing commitment to deepen collaboration between academia and industry and integrate vocational education with industrial development, aimed to enhance the alignment between vocational colleges and the needs of the industry, as well as match school subjects with the actual industry trends, corporate realities, and job requirements. On June 15, 2023, the Group organised a symposium on school-enterprise cooperation in partnership with Baoding Technical College of Electric Power. This symposium provided a platform for both sides to explore multi-level, multi-faceted, and multi-disciplinary opportunities for cooperation. It aimed to achieve a seamless integration and optimal allocation of resources between academia and industry and foster the cultivation of talents required for economic and social development. This initiative not only Representatives from Both Sides promoted a deeper integration between academia and industry but also laid a solid at the Collaboration Symposium foundation for win-win outcomes.

Students and Faculty Members from Department of New Energy of Shandong University Visited Xintai Zhengda Project

On June 6, 2023, students and faculty members specialising in new energy from Shandong University visited Xintai Zhengda Project for a learning excursion. The students had the opportunity to tour various production sites, including the turbine room, generator units, the 8-meter platform of the boiler, and the cooling tower for circulating water. This hands-on experience allowed them to gain a comprehensive understanding of the entire process of power generation and heating supply and expand their knowledge of the technological processes in cogeneration power plants.

This visit further facilitated the collaboration between industry, academia, and research. Going forward, Xintai Zhengda Project will serve as a practical education centre for students majoring in new energy at Shandong University.

Leaders from the School of Environmental Engineering at Nanjing Institute of Technology Visited Sunpower Group

On May 26, 2023, leaders from the School of Environmental Engineering at Nanjing Institute of Technology visited Sunpower Group for an exchange symposium. During the meeting, both sides delved into a comprehensive analysis of the challenges and opportunities related to further education and employment, which are of mutual concern to both the academic institution and the enterprise. The leadership of the School of Environmental Engineering presented the Group with a plaque designating it as an "Off-Campus Practical Education Centre." By advancing academia-industry collaboration and integrating their respective resources, both sides explored more areas for cooperation through tangible initiatives and robust platforms. The goal is to cultivate an environment where academic disciplines, professional expertise, and industrial practices complement and reinforce each other. Together, we strive to establish a new paradigm of "win-win cooperation between academia and industry".





Students and Faculty Members from Shangdong University Touring Production Sites



Environmental Engineering from Nanjing Institute of Technology at the Exchange Symposium

Remuneration Benefits

Sunpower Group provides its employees with competitive and fair remuneration packages. In addition to basic benefits such as statutory holidays, endowment insurance, medical insurance, unemployment insurance, employment injury insurance, maternity insurance, and contributions to the housing provident fund, the Group offers personalised benefits including holiday bonuses, birthday allowances, health check-ups, travel opportunities, and supplementary commercial insurance.

To harness the full intrinsic drive of our workforce, we continuously refine our performance appraisal and incentive compensation system. This involves creating a positive incentive structure that motivates our employees. We assess key performance indicators of front-line staff quarterly, with results directly aligned with their annual incentive packages. Technical personnel benefit from specialised performance appraisal schemes, covering areas like HSE evaluation, biological quality scrutiny, and assessment of secondary production metrics. For senior management, we take a dual approach by evaluating their achievement of annual targets and key performance indicators, thereby linking the assessments to compensation.

Employee Communication

Sunpower Group prioritises democratic communication, ensuring open channels for dialogue and establishing a robust twoway communication mechanism. We facilitate numerous avenues for communication between management and employees. including trade unions, workers' representative congresses, employee symposiums, and surveys. Moreover, we encourage employees to follow proper procedures for communication or appeals and uphold the principles of employee protection, fairness, and justice by promptly providing feedback.

The Group fully utilises the collective bargaining system to effectively coordinate labour relations. Furthermore, we regularly convene workers' representative congresses and employee symposiums to review and endorse various regulations, sign compliance documents, and continuously enhance democratic management practices. Additionally, in 2023, we conducted a comprehensive survey on employee satisfaction and engagement, achieving an impressive participation rate of 97.98%.

Through meticulous and standardised work practices. Suppower Group was recognised as the "Nanjing Model Enterprise for Harmonious Labor Relations" in 2021. Additionally, various subsidiary companies such as Quanjiao, Suyuan, and Yongxing Plants were honoured with titles including "Model Enterprises for Harmonious Labor Relations" and "Trustworthy Organizations for Labor Protection" in their respective regions.

Employee Care

Sunpower Group prioritises the physical and mental well-being of its employees, striving to cultivate a positive work environment and provide caring initiatives. We proactively organise a variety of recreational activities, including basketball games, marathons, birthday celebrations, table tennis competitions, fishing tournaments, and International Women's Day celebrations. These activities are designed to enrich the lives of our employees and assist them striking a work-life balance.

Sunpower Group Organized "Sunpower" Cup Basketball Tournament

To enhance communication among subsidiaries within the Group and showcase their dedication and perseverance, Sunpower Group organised the "Sunpower Cup" basketball tournament from September 15th to 16th, 2023. After two days of intense competition and thrilling matches, this event not only enriched the cultural life of our employees but also strengthened their physical fitness and fostered greater team cohesion.





Contestants at Sunpower Cup Basketball Tournament

Sunpower Organised Outings for Employees

Sunpower Group always emphasises the importance of work-life balance. During the Reporting Period, the Group organised outings for employees. This initiative offered outstanding employees an opportunity to rejuvenate themselves in nature. These activities were aimed at enriching employees' lives, relieving their stress, enjoying their work, and leading a fulfilling life.





Sunpower Group Organised International Women's Day Celebrations

On the eve of International Women's Day, Sunpower Group organised a special celebratory event to honour the occasion. This comprehensive event featured a range of activities including DIY flower arrangement, specialised health check-ups for female employees, and wellness training tailored for women, alongside engaging teambuilding exercises. The Group's intention was not only to highlight the talents of its female workforce but also to underscore its commitment and support towards them. Through this meticulously planned event, female employees had the opportunity to engage in relaxed and enjoyable interactions, fostering a sense of camaraderie and appreciation within the organisation.





Group Photos of Employees



Women's Day Celebrations

Performance

During the Reporting Period, Sunpower Group employed 1.242 employees. The following pie charts show the number of employees by age and gender:



During the Reporting Period, Sunpower Group welcomed 154 new employees. The following pie charts show the number of new employees by age and gender:



During the Reporting Period, 162 employees left their positions at Sunpower Group, with a staff turnover rate of 11.54%. The following tables show the staff turnover rates by age and gender:

Staff turnover by age		2023		Unit
Under 30	23		%	
31 to 40	31		%	
41 to 50	26		%	
Over 50	19		%	
Staff turnover by gender		2023		Unit
Male	82		%	
Female	18		%	

3.4 Employee Training and Development

Sunpower Group prioritises the career development of its employees, recognising the importance of continuously enhancing their skills and capabilities. We offer our team members extensive opportunities for learning and growth, supported by a robust platform for advancement. Our goal is to empower each individual to achieve sustainable and high-guality development.

Governance Structure and Policy

Sunpower Group emphasises the cultivation of talent pipelines, continuously refining talent development systems and promotion mechanisms. By implementing internal protocols such as the Employee Handbook and the Employee Training Management System, we provide systematic support to expand our employees' paths to professional growth.

Our Measures

We have established a comprehensive learning and development system tailored to employees at all levels and job positions, covering various stages of their growth with customised development and training plans. This approach aims to enhance employees' knowledge, skills, and leadership capabilities across the board.

Our comprehensive training plan encompasses various stages of employee development. Through initiatives such as onboarding training, training camps for recent graduates, specialised skill training sessions, leadership development programmes, and training on corporate culture and standards, we ensure each employee has access to learning opportunities to build stronger business skills.

Suppower Group actively collaborates with academic institutions and foster long-term partnerships with esteemed colleges such as Baoding Technical College of Electric Power, Shanxi Electric Power Technical College, Nanjing Institute of Technology, and Shandong University. In 2023, Shandong University recognised the Group as the "Practical Education for Students Specialising in New Energy," while Nanjing Institute of Technology designated it as an "Off-campus Practical Education" and presented commemorative plagues.

Sunpower Group Launched the "Xinsheng" Program for New Graduate Employees

We launched the "Xinsheng" Programme for new graduate employees to assist them in familiarising themselves with the corporate culture, relevant rules and regulations, and the overall environment at Sunpower Group, as well as to facilitate their integration and enhance their sense of belonging.

The training camp consists of two main phases: intensive training and advanced training. The first phase focuses on outdoor activities for team building, various module-based training sessions, examinations, and task summaries. The second phase covers performance appraisal for becoming a permanent employee, specialised knowledge enhancement, practical skill development, and mentorship. The goal is to enhance the overall competencies of recent graduates and promote well-rounded development.



Training on Corporate Culture and Standards

During the Reporting Period, Sunpower Group took significant steps to enhance its corporate culture. This included the development of a comprehensive *Corporate Visual Identity (VI) Manual* and the standardisation of visual systems to enrich the depth of corporate culture and improve its public image. Additionally, the Group implemented initiatives such as the design of an internal magazine and cultural publicity columns, alongside targeted awareness and training campaigns. These endeavours aim to effectively disseminate corporate culture throughout the organisation, fostering a stronger sense of identity and belonging among employees.



Participants at the Training Sessions

Sunpower Group Conducted a Specialised Training Camp for Enhancement of Production Management Capability

To further enhance the management skills and mindset of our production management teams across project companies, as well as fortify our talent pipeline and succession planning, Sunpower Group organised a Specialised Training Camp for Enhancement of Production Management Capability from June 29th to 30th, 2023. Outstanding managers and technical experts in production technology attended the training sessions.

The programme included a variety of lectures on relevant topics, such as "Identity Perception of a Manager," "Refinement Strategies in Production Management," "A Business-Centric Approach to Production Oversight," and "Insights from Real-World Production Management Scenarios.", allowing participants to leverage different perspectives and experiences to explore various aspects of production management. It is aimed to elevate the managerial proficiency and technical capabilities of participants, as well as establish a platform for collaboration and knowledge exchange among project companies.





Participants at the Specialised Training Camp

Sunpower Group Conducted Training on Contract Signing and Performance Risk Management

In March 2023, Sunpower Group conducted comprehensive training sessions on contract signing and performance risk management, covering the operational and engineering management divisions. These sessions meticulously dissected the processes involved in contract drafting and execution, elucidated the standards of contractual language, and provided insights into dispute resolution mechanisms. The aim was to bolster the performance risk management capabilities of employees across the operational and engineering management lines.

Performance

In 2023, the average training duration per employee was **29.06** hours. The following table shows the average training time by gender.

Average training time by gender	2023	Unit
Male	29	Hours
Female	29	Hours

3.5 Occupational Health and Safety

Sunpower Group is committed to fostering a culture of work safety. Leveraging its internal governance framework, the Group collaborates across departments and subsidiaries to advance safety management initiatives and build upon the outcomes of occupational health and safety training and drills. Our aim is to provide all employees with a safe and healthy workplace.

Governance Structure and Policy

Sunpower Group firmly upholds the concept of workplace safety and remains committed to providing all employees with a safe and healthy work environment. The Group strictly follows all applicable laws and regulations where it operates, including the *Work Safety Law of the People's Republic of China* and the *Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases*. We have established a series of internal control mechanisms such as the *Safe Work through Standardisation of Construction Work Management System*, the *Provisions on Safe Work Management of Engineering Construction Projects*, the *Measures for the Management of Potential Safety Hazards*, the *Regulations on Occupational Health and Safety*, the *Safety and Environmental Accidents (Incidents) Management System*, and the *Management of Labor Protection Supplies System*.

Guided by the principle of "Comprehensive Management of Safety and Prevention as the Top Priority", Sunpower Group released the *Notice on Adjustments to the Composition of Members of the Safe Production Committee of Sunpower Clean Energy Investment (Jiangsu) Co., Ltd., aiming to refine the organisational structure of the Committee and its office and guiding the Group's efforts in occupational health management. The Work Safety Committee convenes regularly to discuss and address significant occupational health issues. The Group and its subsidiaries have established an HSE Department as a specialised agency for occupational health supervision and management. This department supervises and identifies occupational health issues and provides recommendations for rectification and adjustment. Sunpower Group has also established a robust work safety responsibility system for departments and personnel at all levels, requiring them to sign letters of responsibility on work safety targets and thereby linking their safety performance with assessment results. During the Reporting Period, no significant work safety incidents occurred.*

Our Measures

Safety Management Assurance

Sunpower Group remains steadfast in its commitment to enhancing work safety standards, implementing a robust dualprevention mechanism for graded risk control and hidden danger investigation and remediation. We have established and enforced a comprehensive responsibility system for work safety, coupled with intensified safety education and training initiatives and regular emergency drills, all aimed at minimising potential risks within our operational environment.

The Group implements a comprehensive set of safety measures across all aspects of production and operations. Before project commencement, we provide extensive safety training for all construction personnel, ensuring compliance with national, industry, and corporate safety regulations. Admission to the construction site is subject to passing an examination. Subsequently, we conduct weekly safety inspections involving all project stakeholders to proactively mitigate any safety hazards.

Furthermore, we place paramount importance on addressing employee needs by continuously strengthening occupational safety measures. This involves providing relevant equipment, conducting comprehensive training on equipment usage, facilitating regular health examinations, and rigorously monitoring occupational hazards to safeguard the physical and mental wellbeing of our workforce. During the Reporting Period, Shantou Project and Tongshan Project were recognised as Power Safety and Production Standardisation Enterprises (Level 2), and Lianshui Project was rated as an Industry and Trade Safety and Production Standardisation Enterprise (Level 3).

Occupational Health and Safety Management System

Through the establishment and implementation of HSE management standards, the Group seamlessly incorporated HSE management requirements into its daily business operations. This enhances our overall management practices and fosters a healthy and safe working environment, ultimately achieving the sustainable development objectives set by the Group. During the Reporting Period, Changrun Project and Shantou Project obtained certification for their occupational health and safety management systems.

CQM	CQM
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Occupational Health and Safety Management System Certification

Safety Awareness Enhancement

During the Reporting Period, Sunpower Group conducted a series of training programmes, including "Environmental and Occupational Health and Safety Management System Training," "Workplace Safety Month Activities," "Workplace Safety Incidents Awareness-Raising and Education Week." "Occupational Disease Prevention and Control Law Promotion Week." and organised emergency drills. These initiatives foster a positive safety culture, heightening safety awareness among employees and mitigating safety incidents.

Sunpower Group Conducted Environmental, Occupational Health, and Safety Management System Training

On June 6, 2023, Sunpower Group took proactive measures to bolster its environmental, occupational health, and safety management capabilities and eliminate potential hazards in this area. By inviting external experts, the Group organised an extensive Environmental and Occupational Health and Safety Management System Training. A total of 154 participants from the headquarters and subsidiaries attended the training session, systematically reviewed the standardised systems, processes, and documentation pertaining to HSE management.

Sunpower Group Organised Workplace Safety Month Activities

In June 2023, Suppower Group launched the 22nd edition of the nationwide "Workplace Safety Month" campaign at its Naniing headquarters. The theme of the campaign was "Safety: A Shared Responsibility, Emergency Preparedness: A Shared Skill." Through strategic measures like displaying thematic banners, establishing safety promotion bulletin boards, and showcasing safety awareness videos, the Group successfully raised the promotional efforts for the campaign. These endeavours contributed significantly to fostering a robust safety culture and augmenting the safety consciousness among the workforce.



Poster for "Safety: A Shared Responsibility, Emergency Preparedness: A Shared Skill"

To further promote the 22nd National Workplace Safety Month initiative, Sunpower Group, on June 27, 2023, hosted the "Safety and Wellness Cup" safety knowledge competition (also under the theme "Safety: A Shared Responsibility, Emergency Preparedness: A Shared Skill") at its Nanjing headquarters. Through this competition, employees were equipped with a more comprehensive understanding of safety protocols, enhancing their awareness and proficiency in safety measures. This initiative further reinforced the implementation of a work safety responsibility system, effectively preventing and controlling the occurrence of safety incidents.



Contestants at the "Safety and Wellness Cup" Competition

Sunpower Group Unveiled the Workplace Safety Incidents Awareness-Raising and Education Week

To effectively implement work safety protocols, bolster safety management efforts, and foster a safe culture across our organisation, Sunpower Group hosts the Workplace Safety Incidents Awareness and Education Week annually. This initiative, aligned with the theme "No Safety Issue Is Insignificant-Vigilance Is Key," included various activities such as case studies of accidents, educational video screenings on safety precautions, and employee forums and workshops. Through these engagements, project companies can delve into the underlying causes of accidents, learn profound lessons, and heighten employees' work safety awareness.



Xinyuan Plant

From April 25th to May 1st, 2023, Sunpower Group launched the Occupational Disease Prevention and Control Law Promotion Week. The initiative was aimed at disseminating knowledge on occupational disease prevention and health tips, and foster a culture of concern for occupational health across the entire organisation.



This event featured a combination of offline and online strategies. Offline tactics included hanging thematic banners, posting slogans, displaying educational posters, and distributing informative materials such as manuals, brochures, and flyers. Meanwhile, online engagement involved activities like surveys, guizzes, and video lectures to promote awareness and build skills among employees. The goal was to cultivate a culture where occupational health is a priority, encouraging everyone to become health-conscious individuals.



Promotional Photos for Occupational Disease Prevention and Control Law Promotion Week

Shantou Project

Sunpower Organised Emergency Drills

To effectively minimise the impact of unforeseen accidents on personnel and equipment, and ensure the sustained safety and stability of units, Sunpower Group upholds the principle of "giving priority to protection, putting prevention first, and comprehensive management." Aligned with the theme of the Workplace Safety Month, "Safety: A Shared Responsibility, Emergency Preparedness: A Shared Skill," the Group conducted a series of emergency drills across our project companies. These drills simulated scenarios including fires, hazardous chemical leaks, and accidents involving production facilities. By bolstering collaboration with local emergency management, firefighting, and disease control authorities, we strengthened our comprehensive emergency response capabilities and elevated the standards of our emergency management practices.



Changrun Project Organised the 2nd Firefighting Drill



Xinyuan Plant Organised the Firefighting Practical Drill



Yongxing Plant Organised Specialised Emergency Drill for Fire and Explosion Incidents



Quanjiao Project Organised the Firefighting Drill

Performance

Indicator	2023	Unit
Number of work-related injuries	0	Case
Number of workdays lost due to work-related injuries	0	Day
Number of work-related deaths	0	Person
Number of occupational diseases	0	Case
Number of fatalities due to occupational diseases	0	Person
Coverage rate of occupational health and safety training for employees	100	%
Coverage rate of occupational health and safety risk assessments	100	%
Coverage rate of employees covered by an occupational health and safety system	100	%

3.6 Supply Chain Management

Effective procurement management is key for Sunpower Group to promptly meet customer needs with consistent quality. We are dedicated to fostering transparent and mutually beneficial relationships with our suppliers. Through the implementation of standardised supplier management mechanisms, we ensure the stability of our supply chain. Additionally, we prioritise Environmental, Social, and Governance (ESG) factors in our admission and management processes, thereby collaboratively creating a sustainable supply chain with our valued suppliers.

Governance Structure and Policy

Sunpower Group adheres to all applicable laws and regulations where it operates, including the Bidding Law of the People's Republic of China, while meticulously establishing internal systems like the *Measures on Supplier Management, the New Application Process for Suppliers*, the *New Evaluation and Re-evaluation Process for Suppliers*, and the *Supplier Suspension/ Cancellation Process*. These measures continuously refine our internal supply chain management framework. We have established a robust supplier management process, which includes entry assessment, risk identification, performance evaluation, corrective action implementation, and exit mechanisms. Through our Supplier Evaluation OA process, we ensure suppliers receive fair and accurate assessments throughout the entire management cycle.

Our Measures

Supplier Entry

Sunpower Group consistently prioritises a robust supply chain management system as a fundamental pillar for delivering highquality products. The Group has implemented a comprehensive and rigorous supplier entry process. During this phase, we require suppliers to provide qualification documents such as business licenses, corporate credit reports, and tax payment certificates. Additionally, we conduct detailed on-site investigations into various aspects of suppliers, including their business scale, fixed assets, and coal testing laboratories, to ensure they possess a strong commercial reputation and robust performance capabilities.

Additionally, the Group integrates environmental and social sustainability requirements into the supplier entry assessment process. Depending on the supplier type, we request certification documents related to their systems. Furthermore, we conduct thorough background checks on all suppliers, considering sustainable development criteria such as prohibiting child labour, ensuring wages meet or exceed local minimum wage standards, evaluating environmental performance, and assessing business ethics as part of the relevant assessment metrics.

Performance

Indicator	2023	Unit
Number of suppliers	950	Enterprises

Supplier Assessment

Sunpower Group employs a tiered management approach, categorising suppliers based on risk levels and substitutability. Through routine evaluations of supplier qualifications and comprehensive risk assessments, we enhance supplier management efficiency and proactively mitigate potential risks within our supply chain.

To ensure premium and stable supply chains, the Group has developed the New Supplier Evaluation Form and the Supplier Re-evaluation Form. These protocols are used by a specialised evaluation team to conduct regular assessments. Annually, we conduct on-site inspections or distribute written surveys to assess specific supplier risks and develop corresponding risk mitigation strategies. We closely monitor supplier performance by evaluating feedback submitted by project companies on the quality of goods and services provided by various suppliers. For suppliers whose evaluations fall short of our standards, we issue corrective action documents, mandating improvements within a specified time frame. For those who consistently fail to meet expectations, we gradually phase out our collaboration with them.

3.7 Contribution to the Community and Society

Sunpower Group encourages its employees to actively participate in volunteer and community activities. We maintain robust communication with government agencies and non-governmental organizations, and strive to play a positive role in public welfare and community engagement initiatives.

Our Measures

Sunpower Group deeply embraces its social responsibility by seamlessly integrating philanthropy into its daily operations. We consistently extend support to society and remain committed to sharing our development outcomes with the wider community. During the Reporting Period, the Group actively organised or participated in philanthropic initiatives such as volunteer efforts on Learn From Lei Feng Day, flood relief endeavours, expressions of gratitude to local firefighters, engagement in street and community clean-up campaigns, and voluntary blood donations. These efforts highlight our steadfast commitment to fulfilling our corporate social responsibilities.

Yongxing Plant Held Special Event on Learn from Lei Feng Day

On March 5, 2023, Yongxing Plant held a special event on Learn From Lei Feng Day, with the theme of "Learning from Lei Feng's Spirit, Beautifying Our Home Environment." We organised various initiatives, including community blessings, environmental conservation efforts, public health advocacy, waste sorting education, and port cleanliness campaigns. CPC members fully embodied their exemplary role by taking an active part in the activities. Inspired by them, participants also embraced Lei Feng's ethos of selflessness and dedication, wholeheartedly engaging in the activities.

Through this event, Yongxing Plant significantly contributed to fostering a green and civilised community, while enhancing environmental awareness among all employees. This initiative played a pivotal role in creating a better working environment and promoting the values of the Sunpower culture.



Volunteers Participating in Learn from Lei Feng Activities

Standing Together with Zhuozhou to Tide Over Difficulties

On July 29, 2023, Zhuozhou of Hebei Province was plaqued by unprecedented flooding caused by Typhoon Doksuri. Responding to the urgent need for a large quantity of towels in the disaster-stricken area, Changrun Project actively assumed its social responsibility and responded to the call from the Gaoyang County CPC Committee and Government. The company organised the donation of towels for emergency relief to Zhuozhou and then Gaoyang County Armed Forces delivered them directly to local residents.



Xinyuan Plant Mobilised Employees to Clean Up the Streets in the Community

In September 2023, Xinyuan Plant responded actively to the call of the government by launching the "Revitalising the Countryside" initiative, mobilising volunteers to conduct a comprehensive clean-up of the village community. Volunteers from the company were grouped into cleaning teams and equipped with tools to sweep along the main streets of Lanjiazhuang Village. The event unfolded in a highly organised manner, with volunteers demonstrating remarkable synergy and coordination, resulting in a rejuvenated environment for Lanjiazhuang Village.



Volunteers Cleaning Up the Environment

Changrun Project Donated Supplies to Zhuozhou

In terms of community engagement, local authorities have made numerous on-site visits to various project companies. Additionally, delegations from the Ministry of Foreign Affairs have inspected the circular economy industrial park within these companies. Through direct interactions, these engagements have strengthened the bonds between governmental bodies and enterprises, contributing to the robust development of Sunpower Group.

Local Authorities Sent Officials to Inspect Project Companies

In 2023, the governments of Yuncheng City and Xinjiang County embarked on a field study to gain deeper insights into the progress of Shanxi Xinjiang Project's construction progress. Through extensive discussions, government entities delved into the specific measures undertaken by Shanxi Xinjiang Project concerning technological innovation, the application of advanced technologies, and energy efficiency strategies. Their aim was to further propel the development of the energy island within the development zone and drive value chain development. Furthermore, both sides underscored the importance of work safety. Shanxi Xinjiang Project was urged to integrate safety awareness throughout all operational aspects, ensuring prompt identification and mitigation of potential hazards. This concerted effort provided a robust foundation for the company's swift production activities and steadfast growth trajectory.





Officials From Yuncheng City Government Inspected Shanxi Xinjiang Project

Officials From Xinjiang County Government Inspected Shanxi Xinjiang Project

Additionally, officials from Xinjiang County government conducted several on-site visits to the headquarters of Sunpower Group in Nanjing to foster mutual understanding and drive the Group's development forward. Both sides engaged in thorough discussions on various topics including enterprise operations, technological innovation, and market expansion, with a shared objective of charting the future path for the Group's high-quality development. These visits not only strengthened the communication between the government and the enterprise but also laid a solid foundation for further collaboration.



Officials From Xinjiang County Government Visited the Headquarters of Sunpower Group

Delegation from the Ministry of Foreign Affairs Inspected Changrun Project's Circular Economy Industrial Park

On February 20, 2023, a delegation of over 60 members from the Ministry of Foreign Affairs visited Changrun Project for an on-site inspection focusing on the development of the circular economy.

During the visit, the delegation learned about Gaoyang County's integrated circular economy industrial chain, encompassing textile printing and dyeing, sewage treatment, water recycling, centralised heating, waste heat power generation, and brick production using slag ash. They also gained insights into the overview and environmental indicators of the company, engaging in in-depth discussions regarding the current status of its circular economy. Impressed by the achievements observed during the field visit, the delegation expressed appreciation for Gaoyang County's integrated circular economy model and Changrun Project's commitment to energy conservation and emission reduction. Looking ahead, we will promote the best practices of Sunpower Group on energy conservation, environmental protection, and circular economy industrial park internationally, thereby facilitating the development of the entire industrial chain.



Delegates from the Ministry of Foreign Affairs Visiting Changrun Project

Performance

Indicator	2023	Unit
Employee volunteer hours	408	Hour



04.Governance

SDGs



GRI metrics

GRI 2, GRI 3, GRI 201, GRI 205, GRI 206, GRI 40

A robust and scientifically sound governance system is crucial for ensuring a company's steady and sustainable progress. Sunpower Group is committed to upholding compliance standards, strengthening its governance framework, regulating ethical business practices, and fostering a culture of integrity and self-discipline among its workforce. We continuously refine our internal control management system, implement risk mitigation measures, and endeavour to reduce risks across all areas, with the overarching objective of building a solid foundation for sustainable growth.



4.1 Operational and Economic Performance

As a trailblazer of circular economy, Sunpower Group remains steadfast to addressing the heating demands of the industrial and residential sectors. We achieve this by employing lowemission, environmentally friendly, and energy-efficient patented technologies. Deeply engaged in research, development, investment, construction, and operational management, our projects span centralised heating, combined heat and power generation, and environmental engineering within the circular economy framework. Our strategic outlook and business trajectory seamlessly align with national policies on environmental protection and energy conservation, aiming to provide users with economically viable, stable, and efficient clean energy solutions. By mitigating emissions of pollutants and safequarding ecological integrity, we are dedicated to achieving material recycling and multi-level energy utilisation.

We are strategically focusing on the green investment (GI) business, seizing the opportunities arising from the energy transition. With a firm commitment to the clean energy sector, we have successfully implemented 11 GI projects by the end of the Reporting Period. Leveraging the strengths of an integrated energy value chain, we have achieved consistent growth in business performance, while actively driving green and low-carbon economic and social development forward



Performance

In 2023. Group revenue reached

RMB 3.403 billion

and total assets stood at

RMB 7.629 billion

4.2 Corporate Governance

Sunpower Group places paramount emphasis on operating within compliance limits, continuously refining its corporate governance structure to enhance management efficacy and propel the Group's steadfast growth. We have implemented a robust risk control system, seamlessly integrating our operations with social responsibilities, and actively expediting the Group's high-quality development. This endeavour elevates our overall governance practices to new heights.

Governance Structure

Suppower Group rigorously adheres to all applicable laws and regulations where it operates, including the Code of Corporate Governance 2018. The Group refines its governance structure and enhances its management capabilities on an ongoing basis, developing a governance framework that establishes a clear and efficient governance system. The Board of Directors comprised eight members, which included one female director.

The Board of Directors oversees various committees, such as the Nominating Committee, the Remuneration Committee, the Audit Committee, the Independent Committee, the Risk Management Committee, and the Sustainable Development Committee. Each committee is assigned specific duties and responsibilities and has formulated a series of effective management and oversight policies.

We prioritise communication with investors and information disclosure. Adhering to the guidelines set forth for publicly listed companies, we provide disclosures of information, thereby enhancing the quality and transparency of our corporate reporting. We ensure equitable treatment of all shareholders, regularly convening both annual and special shareholder meetings to facilitate communication and exchange. This underscores our dedication to protecting shareholder rights and creating long-term shareholder value.

Board Diversity

Sunpower Group has implemented a Board Diversity Policy, designed to ensure a diverse and professional composition of Board members by considering factors such as gender, background, knowledge, skills, and industry experience. Our Board members contribute expertise from various fields, including chemistry, engineering, investment, finance, auditing, business administration, law, and social sciences. This diverse skill set enables the Board to offer comprehensive guidance for the Group's journey toward stable and sustainable operations.

Performance

As of the end of the reporting period, Female directors accounted for of the Board 13%

33%

Risk Management

Sunpower Group has established a comprehensive risk management framework with a clearly defined organisational structure for risk oversight and control. We regularly convene Risk Management Committee meetings to analyse and develop strategies to mitigate various operational risks. Our array of internal control protocols, combined with proactive risk prevention measures, underscores our commitment to implementing short, medium, and long-term risk management strategies.

The Group has implemented policies and protocols regarding anti-corruption, conflict of interests, insider trading, fraud prevention, and whistleblowing, ensuring a robust defence against various risks. Furthermore, we strengthen our risk management capabilities through a combination of internal audit and control mechanisms, consistently bolstering our resilience to risks. Additionally, the establishment of a Sustainable Development Committee and the integration of ESG factors into our risk management framework further advance the Group's journey towards sustainability. For detailed information on the Sunpower Group's governance, please refer to our Annual Report for FY2023.

women comprised of the management team



Independent directors represented of the Board



4.3 Business Ethics and Anti-corruption

Sunpower Group maintains high standards of business ethics across our operations and holds our partners and suppliers to the same expectations. Through regular audits, we ensure financial transparency and compliance, while also fostering a mechanism that encourages employees to report misconduct. Additionally, we provide anti-corruption training to enhance the compliance awareness of staff members and uphold ethical principles.

Governance Structure and Policy

Sunpower Group continuously strengthens its anti-corruption and business ethics management framework. Through collaborative efforts among the Office of the President, the Internal Control Department, and the Human Resources Department, a series of regulations have been formulated, including the System of Honest Performance of Duties, the *Business Secret Management Regulations*, and the *Employee Handbook: Confidentiality Policy*. These regulations aim to guide and mandate all employees to conduct their work with integrity and honesty. Additionally, the Group ensures transparency by informing all stakeholders, with whom we have direct or indirect business relations, about its stance against commercial bribery through contractual agreements.

Our Measures

Internal Audit and Control

Sunpower Group has implemented robust internal audit and control procedures to identify high-risk business activities, analyse potential dangers, and assess the severity of their impact. During the Reporting Period, the Internal Control Department organized various divisions to conduct integrity risk assessments on key business matters and formulated targeted risk prevention and response strategies. Furthermore, to ensure stronger compliance, we have required all departments to conduct annual self-assessments and engaged external third-party organizations to perform internal control evaluations, combining internal and external efforts to carry out risk control measures.



Reporting Mechanism

We strongly encourage employees to report any violations of ethical standards and legal regulations. We highly prioritise whistleblower protection and have established and implemented a Whistleblower Management System. This protocol outlines the reporting channels, scope, procedures, confidentiality, protection against retaliation, and handling of malicious reports, with a key focus on protecting the identity of whistleblowers. The Group provides multiple reporting channels for employees and other stakeholders, including email, hotline, and mail.

Training on Integrity Culture

Sunpower Group is dedicated to instilling a culture of business ethics across all aspects of its operations, engaging every employee fully. We ensure that all policies and procedures are clearly communicated to each staff member, fostering an environment of integrity, honesty, and compliance. Every employee is required to sign a Commitment Letter of Honest Practices. Furthermore, we regularly disseminate the *System of Honest Performance of Duties* to directors and all employees, and conduct anti-corruption training.

Anti-corruption Training

To ensure that a culture of business ethics permeates every level of Sunpower Group, we continuously provide ethics training for employees.

During the Reporting Period, the Group conducted specialised anti-corruption training sessions and lectures for personnel involved in procurement activities. The training delved into discussions on maintaining integrity and preventing corruption in their work, covering innovative management methods, optimising evaluation models, ensuring the effectiveness of supplies delivery, strengthening cost controls, enhancing the rationality of procurement plans, refining supplier management, and optimising payment processes. Our aim is to fortify defences against unethical behaviours across the board and ensure fairness, transparency, and efficiency in procurement operations.

Performance

Indicator

Coverage Rate of Business Code of Conduct

Number of Employees Attending Anti-Corruption Training

Coverage Rate of Anti-Corruption Training

2023	Unit
100	%
1,242	Person
100	%

Appendix

Annex I Key Performance Indicators

Indicator		2023	Unit
	Total greenhouse gas emissions	356.74	10,000 tons
	Direct (Scope 1) greenhouse gas emissions	3,564,302.50	Ton of carbon dioxide
Greenhouse Gas Emissions	Indirect (Scope 2) greenhouse gas emissions	3,130.40	Ton of carbon dioxide
	Greenhouse gas (steam and heating supply) emission intensity	0.1029	Ton/GJ
	Greenhouse gas (electricity supply) emission intensity	0.3947	Ton/MWH
	Direct (Scope 1) greenhouse gas (steam and heating supply) emission intensity	0.1028	Ton/GJ
	Direct (Scope 1) greenhouse gas (electricity supply) emission intensity	0.3944	Ton/MWH
	Indirect (Scope 2) greenhouse gas (steam and heating supply) emission intensity	0.0001	Ton/GJ
	Indirect (Scope 2) greenhouse gas (electricity supply) emission	0.0003	Ton/MWH
	intensity		
	Total energy consumption	4,616.72	10,000 GJ
	Energy consumption intensity (measured in kilograms of standard coal consumption per ton of steam produced)	104.55	Kg/ton
Energy	Electricity consumption	37,309.88	10,000 KWH
	Electricity consumption intensity (measured in kilowatts of electricity consumption per ton of steam produced)	24.76	KWH/ton
		1,447.91	10,000 tons
Water	Total water consumption	1,447.91	10,000 tons
	Water consumption intensity (measured in tons of water consumption per ton of steam sold)	1.45	Ton of Water/ ton of steam
	Total amount of wastewater discharge	266.95	10,000 tons
Wastewater	Wastewater discharge rate 0.18 Wastewater consumption amount	0.10	
	Amount of hazardous waste generated	52.21	Ton
Waste	Amount of non-hazardous solid waste generated	608,726.03	Ton
	Waste discharge rate	0.04	Ton of steam
	Treatment/disposal rate of solid waste	100	%

Annex II SGX Core ESG Metrics Index

development Average training time of employee by gender Preate employee 2.4 Hour Female employee 29 Hour Rumber of work-related injuries 0 Case Number of work-related injuries 0 Day Number of work-related deaths 0 Day Number of cocupational diseases 0 Case Number of fatalities due to occupational diseases 0 Person Number of fatalities due to occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 13 % Percentage of female board members 50 % Coruption lawsuits 0 Case Percentage of independent board members 50 % Complaints caused by product quality failing to meet user requirements 1242 Person Complaints caused by product quality failing to meet user requirements 0 Case	Indicator			2023	Unit
development Average training time of employee by gender Preate employee 2.4 Hour Female employee 29 Hour Rumber of work-related injuries 0 Case Number of work-related injuries 0 Day Number of work-related deaths 0 Day Number of cocupational diseases 0 Case Number of fatalities due to occupational diseases 0 Person Number of fatalities due to occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 13 % Percentage of female board members 50 % Coruption lawsuits 0 Case Percentage of independent board members 50 % Complaints caused by product quality failing to meet user requirements 1242 Person Complaints caused by product quality failing to meet user requirements 0 Case		Average training time of emplo	oyee	29.06	Hour
Induction Permate employee 29 Hour Number of work-related injuries 0 Case Number of work-related deaths 0 Day Number of work-related deaths 0 Case Number of occupational diseases 0 Case Number of fatalities due to occupational diseases 0 Person Coverage rate of occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 100 % Percentage of female board members 13 % Percentage of independent board members 50 % Courage rate of and percentage of independent board members 50 % Courage of independent board members 50 % Courage rate of independent board members 100 % Courage of independent board members 50 % Courage rate (rate) proves 1242 Person Courage rate (rate) precupated 1242 Person <	Training and development	Average training time of	Male employee	29	Hour
Number of workdays lost due to work-related injuries 0 Day Number of work-related deaths 0 Person Number of occupational diseases 0 Case Number of fatalities due to occupational diseases 0 Person Coverage rate of occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk members 100 % Coverage rate of occupational health and safety risk health and safety system 100 % Percentage of female board members 13 % Corruption lawsuits 50 % Percentage of independent board members 1242 Person Complaints caused by protuct quality failing to meet user requirements 0 Case Complaints caused by protuct quality failing to meet user requirements 0 Case		employee by gender	Female employee	29	Hour
Number of work-related deaths0PersonNumber of occupational diseases0CaseNumber of fatalities due to occupational diseases0PersonCoverage rate of occupational health and safety training for employees100%Coverage rate of occupational health and safety risk assessments100%Coverage rate of employees covered by an occupational health and safety system100%Percentage of female boordmembers13%Percentage of independent board members50%%Coverage rate of cupational feative system0Case100Percentage of independent board members50%%Corruption lawsuits0Case100%Complaints caused by proticipated100%%Complaints caused by proticipating to meet user requirements0CaseComplaints caused by pro		Number of work-related injurie	es	0	Case
Number of occupational diseases 0 Case Number of fatalities due to occupational diseases 0 Person Coverage rate of occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 100 % Percentage of female borner 13 % Percentage of independer board members 50 % Corruption lawsuits People participated 1242 Person Training session on possiness ethics and anti-corruption People participated 100 % Complaints caused by product quality failing to meet user requirements 0 Case 100 Complaints caused by product suppliers Faterprises 100 % 100 %		Number of workdays lost due	to work-related injuries	0	Day
Health and safety Number of fatalities due to occupational diseases 0 Person Coverage rate of occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 100 % Percentage of female board members 13 % Percentage of independent board members 50 % Corruption lawsuits 0 Case Training session on pusities ethics and anti-corruption Percentage of independent rate 100 % Complaints caused by product quality failing to meet user requirements 0 Case Complaints caused by product quality failing to meet user requirements 0 Case Complaints caused by product quality failing to meet user requirements 0 Case Complaints caused by product quality failing to meet user requirements 0 Case Complaints caused by product quality failing to meet user requirements 0 Case		Number of work-related death	IS	0	Person
Health and safety Coverage rate of occupational health and safety training for employees 100 % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 100 % Percentage of female board members 13 % Percentage of independent board members 33 % Percentage of independent board members 50 % Corruption lawsuits 0 Case Corruption lawsuits 100 % Corruption lawsuits 0 Case Corruption lawsuits 100 % Corruption lawsuits 0 Case Corruption lawsuits 0 Case Corruption lawsuits 0 Case Corruption lawsuits 0 Case Corruption rate 100 % Corruption rate 0 Case Complaints caused by product quality failing to meet user requirements 0 Case Complaints caused by product quality failing to meet user requirements 0 Case Complaints caused by product quality failing to meet		Number of occupational disea	ses	0	Case
employees ioo % Coverage rate of occupational health and safety risk assessments 100 % Coverage rate of employees covered by an occupational health and safety system 100 % Percentage of female board members 13 % Percentage of independent board members 50 % Corruption lawsuits 0 Case Training session on board complaints caused by protect quality failing to meet user requirements 00 % Complaints caused by protect quality failing to meet user requirements 0 Case	Health and safety	Number of fatalities due to oc	cupational diseases	0	Person
assessments 100 % Coverage rate of employees covered by an occupational health and safety system 100 % Percentage of female board members 13 % Percentage of women in the senior management 33 % Percentage of independent board members 50 % Corruption lawsuits 0 Case Training session on business ethics and anti-corruption People participated 1,242 Person Complaints caused by prote quality failing to meet user requirements 0 Case Total number of suppliers 950 Enterprises			health and safety training for	100	%
health and safety system 100 % Percentage of female board members 13 % Percentage of women in the senior management 33 % Percentage of independent board members 50 % Corruption lawsuits 0 Case Training session on ousiness ethics and anti-corruption People participated 1,242 Person Participation rate 100 % Case Complaints caused by product quality failing to meet user requirements 0 Case Total number of suppliers 950 Enterprises		<u> </u>	health and safety risk	100	%
Percentage of women in the senior management 33 % Percentage of independent board members 50 % Corruption lawsuits 0 Case Training session on pousiness ethics and anti-corruption People participated 1,242 Person Participation rate 100 % Complaints caused by product quality failing to meet user requirements 0 Case Total number of suppliers 950 Enterprises			overed by an occupational	100	%
Percentage of independent board members 50 % Corruption lawsuits 0 Case Training session on pousiness ethics and anti-corruption People participated 1,242 Person Participation rate 100 % Complaints caused by product quality failing to meet user requirements 0 Case Total number of suppliers 950 Enterprises	Percentage of female board members			13	%
Corruption lawsuits 0 Case Training session on pusiness ethics and anti-corruption People participated 1,242 Person Participation rate 100 % Complaints caused by product quality failing to meet user requirements 0 Case Total number of suppliers 950 Enterprises	Percentage of women in the senior management			33	%
People participated 1,242 Person Justice Participation rate 100 % Complaints caused by product quality failing to meet user requirements 0 Case Total number of suppliers 950 Enterprises	Percentage of independent board members			50	%
Dusiness ethics and anti-corruptionParticipation rate100%Complaints caused by product quality failing to meet user requirements0CaseTotal number of suppliers950Enterprises	Corruption lawsuits			0	Case
anti-corruptionParticipation rate100%Complaints caused by product quality failing to meet user requirements0CaseTotal number of suppliers950Enterprises	Training session on	People participated		1,242	Person
Total number of suppliers 950 Enterprises	business ethics and anti-corruption	Participation rate		100	%
	Complaints caused by product quality failing to meet user requirements			0	Case
Employee volunteer hours 408 Hour	Total number of suppliers			950	Enterprises
	Employee volunteer hours			408	Hour

Indicator			Index
Environmental	Greenhouse Gas Emissions	Absolute emissions by: (a)Total; (b) Scope 1, Scope 2;and (c) Scope 3, if appropriate	37
		Emission intensities by: (a)Total; (b) Scope 1, Scope 2; and (c) Scope 3, if appropriate	37
	Energy Consumption	Total energy consumption	33
		Energy consumption intensity	33
	Water Consumption	Total water consumption	33
		Water consumption intensity	33
	Waste Generation	Total waste generated	29
	Candar Diversity	Current employees by gender	50
	Gender Diversity	New hires and turnover by gender	50
	Age-Based Diversity	Current employees by age groups	50
		New hires and turnover by age groups	50
	E	Total turnover	50
o	Employment	Total number of employees	50
Social	Development & Training	Average training hours per employee	52
		Average training hours per employee by gender	52
	Occupational Health & Safety	Fatalities	56
		High-consequence injuries	56
		Recordable injuries	56
		Recordable work-related ill health cases	56
	Board Composition	Board independence	65
		Women on the board	65
	Management Diversity	Women in the management team	65
	Ethical Behaviour	Anti-corruption disclosures	67
Governance		Anti-corruption training for employees	67
	Certifications	List of relevant certifications	24, 53
	Alignment with Frameworks	Alignment with frameworks and disclosure practices	4-5
	Assurance	Assurance of sustainability report	We have not sought external assuran for FY2023

Annex III GRI Standard Index

Statement of Use	Sunpower has reported the information cited in this GRI content index for the period January 1, 2023 to December 31, 2023 with reference to the GRI Standard
GRI 1 used	GRI 1: Foundation 2021

GRI Standard	Disclosure	Location			
GRI 2: General D	GRI 2: General Disclosures 2021				
The organization	and its reporting practices				
2-1	Organizational details	7-9			
2-2	Entities included in the organization's sustainability reporting	4-5			
2-3	Reporting period, frequency and contact point	4-5			
2-4	Restatements of information	No			
Activities and wo	orks				
2-6	Activities, value chain and other business relationships	7-9, 57			
2-7	Employees	46-50			
2-8	Workers who are not employees	46-50			
Governance					
2-9	Governance structure and composition	65			
2-10	Nomination and selection of the highest governance body	65			
2-11	Chair of the highest governance body	65			
2-12	Role of the highest governance body in overseeing the management of impacts	65			
2-13	Delegation of responsibility for managing impacts	14-15, 65			
2-14	Role of the highest governance body in sustainability reporting	15			
2-15	Conflicts of interest	65-67			
2-16	Communication of critical concerns	20-21			
2-17	Collective knowledge of the highest governance body	15			
2-18	Evaluation of the performance of the highest governance body	14			
2-19	Remuneration policies	46, 48			
2-20	Process to determine remuneration	48			
Strategy, policies and practices					
2-22	Statement on sustainable development strategy	18-19			
2-23	Policy commitments	46, 57, 66			
2-24	Embedding policy commitments	46, 57, 66			

GRI Standard	Disclosure	Location
2-25	Processes to remediate negative impacts	66-67
2-26	Mechanisms for seeking advice and raising concerns	66-67
2-27	Compliance with laws and regulations	66-67
2-28	Membership associations	10-11
Stakeholder eng	jagement	
2-29	Approach to stakeholder engagement	20-21
GRI 3: Material	Topics 2021	
3-1	Process to determine material topics	16-17
3-2	List of material topics	16-17
3-3	Management of material topics	16-17
Material Issues		
GRI 201: Econor	nic Performance 2016	
201-1	Direct economic value generated and distributed	64
201-2	Financial implications and other risks and opportunities due to climate change	35-36
201-3	Defined benefit plan obligations and other retirement plans	48-49
GRI 203: Indired	t Economic Impacts 2016	
203-1	Infrastructure investments and services supported	40-42, 58-61
203-2	Significant indirect economic impacts	58-61
GRI 205: Anti-co	prruption 2016	
205-1	Operations assessed for risks	66-67
205-2	Communication and training about anti-corruption policies and procedures	66-67
205-3	Confirmed incidents of corruption and actions taken	66-67
GRI 206: Anti-co	ompetitive Behaviour 2016	1
206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	66-67
Environment		
GRI 302: Energy	2016	
302-1	Energy consumed within the organization	33
302-3	Energy intensity	33
302-4	Reduction of energy consumption	30-33
302-5	Reductions in energy requirements of products and services	30-33
GRI 303: Water	and Effluents 2018	
303-1	Interaction with water as shared resource	31-32
303-2	Management of water discharge-related impacts	26-27
303-3	Water withdrawal	31-33

GRI Standard	Disclosure	Location
303-4	Water discharge	26-27, 29
303-5	Water consumption	31-33
GRI 305: Emissio	on 2016	
305-1	Direct (Scope 1) GHG emissions	33
305-2	Energy indirect (Scope 2) GHG emissions	33
305-4	GHG emission intensity	33
305-7	Nitrogen oxides (NO _x), sulfur oxides (SO _x), and other significant air emissions	29
GRI 306: Waste	2020	
306-1	Waste generation and significant waste-related impacts	26
306-2	Management of significant waste-related impacts	26
306-3	Waste generated	26, 29
306-4	Waste diverted from disposal	26, 29
306-5	Waste directed to disposal	26, 29
GRI 308: Supplie	er Environmental Assessment 2016	
308-2	Negative environmental impacts in the supply chain and actions taken	57
Social		
GRI 401:Employr	nent 2016	
401-1	New employee hires and employee turnover	50
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	48-49
GRI 403: Occupa	ational Health and Safety 2018	
403-1	Occupational health and safety management system	53
403-2	Hazard identification, risk assessment, and incident investigation	53-56
403-3	Occupational health services	53-56
403-4	Worker participation, consultation, and communication on occupational health and safety	53-56
403-5	Worker training on occupational health and safety	54-56
403-6	Promotion of worker health	53-56
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	53-56
403-8	Workers covered by an occupational health and safety management system	56
403-9	Work-related injuries	56
GRI 404: Training	g and Education 2016	
404-1	Average hours of training per year per employee	52
404-2	Programs for upgrading employee skills and transition assistance programs	51-52
GRI 405: Diversit	ty and Equal Opportunity 2016	1

GRI Standard	Disclosure	Location
405-1	Diversity of governance bodies and employees	46-50, 65
GRI 406: Non-di	scrimination 2016	
406-1	Incidents of discrimination and corrective actions taken	46-48
GRI 407: Freedo	m of association and collective bargaining 2016	
GRI 408: Child L	abor 2016	
408-1	Operations and suppliers at significant risk for incidents of child labor	46-48, 57
GRI 409: Forced	or Compulsory Labor 2016	
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	46-48, 57
GRI 413: Local C	iommunities 2016	
413-1	Operations with local community engagement, impact assessments, and development programs	58-61
GRI 414: Supplie	r Social Assessment 2016	
414-1	New suppliers that were screened using social criteria	57
414-2	Negative social impacts in the supply chain and actions taken	57
GRI 416: Custorr	er Health and Safety 2016	
416-1	Assessment of the health and safety impacts of product and service categories	43-45
416-2	ncidents of non-compliance concerning the health and safety impacts of products and services	43-45
GRI 418: Custom	ner Privacy 2016	
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	43-45



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Sustainability Report 2023
Sunpower Group Ltd.

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