



Solargiga Energy

Solargiga Energy Holdings Limited
陽光能源控股有限公司

(Incorporated in the Cayman Islands with limited liability)
(於開曼群島註冊成立的有限公司)
Stock Code 股份編號 : 757

TO CREATE
BRIGHT FUTURE
共創未來



2023

環境、社會及管治報告
Environmental, Social and
Governance Report

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

CONTENTS 目錄

About the Group 關於本集團	2
About the Report 關於本報告	5
Sustainability Governance 可持續發展管治	7
Stakeholder Engagement 持份者參與	8
Materiality Assessment 重要性評估	9
Environmental Performance 環境表現	11
Emission Control 排放控制	11
Resources Management 資源管理	15
Environmental Impact Reduction 減少對環境的影響	17
Combat Climate Change 應對氣候變化	19
Social Performance 社會表現	22
Employment and Labour Practices 僱傭和勞工常規	22
Health and Safety Management 健康與安全管理	24
Talent Training Management 人才培訓管理	25
Prevention of Child Labour and Forced Labour 防止童工和強制勞工	27
Supply Chain Management 供應鏈管理	27
Product and Service Quality Control 產品和服務質量控制	29
Upholding the Business Ethics in the Workplace 在工作場所堅守商業道德	32
Caring for the Community 關懷社區	33
Content Index of the ESG Reporting Guide 《環境、社會及管治報告指引》內容索引	34

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 環境、社會及管治報告

About the Group

Solargiga Energy Holdings Limited (the “Company”, together with its subsidiaries, the “Group” or “we”) is a leading supplier of solar energy services founded in 2000 and listed in the Hong Kong Stock Exchange in 2008 (Stock code: 0757). The Group focuses on manufacturing and sales of downstream photovoltaic modules in the photovoltaic industry. Based in China (the “PRC” or “Mainland China”), its business footprint covers the global major photovoltaic markets, over 30 countries and regions around the globe. It is a big advantage in producing such products that the major customers of photovoltaic modules are large domestic state-owned enterprises, multinational corporations, and other photovoltaic end-user customers. The Group is also engaged in photovoltaic systems installation as well as developing, designing, constructing, operating, and maintaining photovoltaic power generation plants.

Mission and Vision

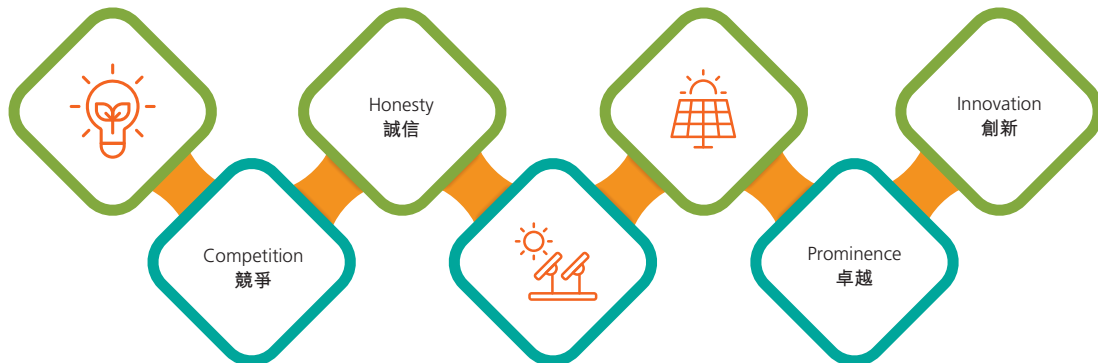
The Group sticks to the development philosophy of **Honesty, Innovation, Competition, and Prominence**, the Group aims to build an internationally renowned enterprise through technological innovation, regulated management, strengthened quality, honest operation, and high-quality service. It strives to manufacture world-class products and make unrelenting efforts to become a leading solar industry enterprise, safeguarding the earth's green living environment.

關於本集團

陽光能源控股有限公司(「本公司」，連同其附屬公司，「本集團」或「我們」)成立於二零零零年，並於二零零八年香港聯交所上市(股份代號：0757)，是一家領先的太陽能服務供應商。本集團專注於光伏行業下游光伏組件的製造和銷售。總部位於中國(「中國」或「中國內地」)，業務足跡覆蓋全球主要光伏市場，全球30多個國家和地區。光伏組件的主要客戶是國內大型央企、大型跨國企業等光伏終端光伏應用客戶，這是生產此類產品的一大優勢。本集團亦從事光伏系統安裝及光伏發電廠的開發、設計、建造、運營及維護。

使命與願景

本集團堅持**誠信、創新、競爭、卓越**的發展理念，旨在通過技術創新、規範管理、強化品質、誠信經營、優質服務，打造國際知名企業。努力製造世界一流的產品，不懈努力成為太陽能行業領先的企業，守護地球的綠色生活環境。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Business Philosophy

經營理念



Highlight of Achievements and Awards

As the first batch of photovoltaic enterprises engaged in the production of photovoltaic products, with more than 20 years of experience in the photovoltaic industry in Mainland China, the Group has obtained over 300 National patents and over 50 provincial and municipal achievement awards in science and technology, including but not limited to the following:

- National Intelligent Photovoltaic Pilot Demonstration Enterprise;
- National Intellectual Property Advantage Enterprise;
- Global Top 500 New Energy Companies (No.189);
- Chinese Energy Group Top 500 Enterprise (No.297);
- Top 20 Chinese Solar Panel Companies on PV Power Plants 2023 (No.15);
- PVBL Top 100 Solar PV Brands in the World 2023 (No.33);
- PVBL Best Photovoltaic Brand Promotion Award 2023;
- OFweek 2023 "2023 Most Promising Enterprise" Award;
- 國家智能光伏試點示範企業;
- 國家知識產權優勢企業;
- 全球新能源企業500強(第189位);
- 中國能源集團500強企業(第297位);
- 二零二三年中國光伏組件企業20強(第15名);
- PVBL全球太陽能光伏品牌100強(第33名);
- 二零二三年PVBL最佳光伏品牌推廣獎;
- OFweek維科網「二零二三年太陽能光電產業最具成長力企業」獎項;

成就與獎項亮點

作為首批從事生產光伏產品的光伏企業，本集團在中國內地光伏行業擁有超過二十年的經驗，獲得國家專利300餘項，省市科技獎勵和成果獎50餘項，包括但不限於以下內容：



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

- Solarbe “2023 Most Influential PV Module Enterprise”;
- 2023 MolePV Golden Leopard Award “N-type TOPCon Golden Module Award”; and
- 2023 MolePV Golden Leopard Award “Technology Innovation Award”.
- Solarbe「二零二三年最具影響力光伏組件企業」;
- 二零二三年MolePV金豹獎「N型TOPCon金組件獎」;及
- 二零二三年MolePV金豹獎「技術創新獎」。

These awards recognized the Group’s commitment to advancing excellence in photovoltaic technology and its success in developing innovative and reliable solar products.

這些獎項肯定了本集團致力於推動光伏技術卓越發展的承諾，以及本集團在開發創新和可靠的太陽能產品方面所取得的成功。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

About the Report

This is the eighth Environmental, Social and Governance (“ESG”) Report (the “Report”) of the Group and is prepared in accordance with the Environmental, Social and Governance Reporting Guide (the “ESG Reporting Guide”) provided in Appendix C2 to Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the “HKEX”).

This Report focuses on the sustainability-related policies, measures, and performance of the Group’s core business, which is the provision of upstream and downstream vertically integrated solar energy services, aiming at strengthening communication and connection between and with the Group’s internal and external stakeholders.

Reporting Scope and Period

The Report covers the period from 1 January 2023 to 31 December 2023 (the “Reporting Period”).

Unless otherwise specified, the Report covers the core business segments of the Group in Mainland China as follows:

- i. the manufacture and trading of photovoltaic modules;
- ii. the construction and operating of photovoltaic power plants; and
- iii. the manufacture and trading of semiconductor, the trading of monocrystalline silicon solar cells and others.

Due to the disposal of business segment of monocrystalline silicon solar ingots/wafers in Mainland China completed on 30 December 2022, the data of relevant segment is excluded from the calculation of environmental and social key performance indicators, to better reflect the actual situation of the Group.

關於本報告

本集團的第八份環境、社會及管治(ESG)報告(「本報告」)乃根據香港聯合交易所有限公司(「聯交所」)證券上市規則附錄C2所載的《環境、社會及管治報告指引》(「ESG報告指引」)編製。

本報告重點介紹本集團核心業務(即提供上下游垂直整合太陽能服務)的可持續發展相關政策、措施和績效，旨在加強本集團內部和外部利益相關者之間的溝通和聯繫。

匯報範圍及期間

本報告涵蓋二零二三年一月一日至二零二三年十二月三十一日期間(「報告期」)。

除另有指明外，本報告涵蓋本集團於中國內地的核心業務分部如下：

- (i) 製造及買賣光伏組件；
- (ii) 興建及經營光伏電站；及
- (iii) 製造及買賣半導體、買賣太陽能單晶硅電池及其他。

由於位於中國內地的太陽能單晶硅棒／硅片業務已於二零二二年十二月三十日完成出售，環境及社會關鍵績效指標並不包含相關業務的數據，以更好地反映本集團的實際情況。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Reporting Principles

The Group complies with the reporting principles set out in the ESG Reporting Guide and strives to enhance transparency and accountability through the Report:

匯報原則

本集團遵守ESG報告指引所載的匯報原則，並致力透過報告提高透明度和問責性：

Reporting Principles 匯報原則	Application 應用
Materiality 重要性	The Group identified the concerns and expectations of the stakeholders through various communication channels. The Company's management conducted an internal assessment to identify the ESG issues that were material to the Group's business operation and the stakeholders, relevant ESG issues will be disclosed in the Report accordingly. 本集團通過多種溝通渠道了解持份者的關注和期望。本公司管理層進行了內部評估，以確定對本集團業務運營和持份者具有重大影響的ESG議題，相關環境、社會及管治議題將在本報告中相應披露。
Quantitative 量化	The Report discloses quantitative information on key performance indicators (the "KPIs") where appropriate. The KPIs are calculated with reference to "Appendix 2: Reporting Guidance on Environmental KPIs" and "Appendix 3: Reporting Guidance on Social KPIs" of "How to Prepare an ESG Report" published by the HKEX. 本報告在適當情況下披露了關鍵績效指標的量化信息。我們參考由聯交所發佈的《如何編備環境、社會及管治報告》中「附錄二：環境關鍵績效指標匯報指引」及「附錄三：社會關鍵績效指標匯報指引」計算關鍵績效指標。
Balance 平衡	The Report provides an objective and unbiased description of the ESG performance of the Group during the Reporting Period. 本報告客觀、公正地描述了本集團在報告期內的ESG表現。
Consistency 一致性	The Report used consistent statistical methodologies wherever possible. If there is any change, the Group will include a corresponding explanation in the Report. 本報告盡可能使用一致數據統計的方法。如有任何變化，本集團將在本報告中作出相應說明。

Access to the Report

The Report is available in English and Chinese versions on the HKEX website (www.hkexnews.hk) and the Group's official website (www.solargiga.com). In case of any discrepancies or inconsistencies between the English and Chinese versions, the English version shall prevail.

獲取本報告

本報告有中英文版本，並已上載至香港交易所網站 (www.hkexnews.hk) 及本集團官方網站 (www.solargiga.com)。如中英文版本有任何歧義或不一致，概以英文版本為準。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Contact and Inquiry

The Group understands that our stakeholder's valuable feedback and opinions enable us to enhance our sustainability performance constantly. You are welcome to provide feedback and opinions related to the Report's disclosures and the Group's sustainability performance through the following contact methods:

Postal Address: 郵寄地址	Room 1402, Harbour Centre, 25 Harbour Road, Wanchai, Hong Kong 香港灣仔港灣道25號海港中心1402室
Email: 電郵:	esg@solargiga.com

聯絡及查詢

本集團明白持份者的寶貴回饋及意見讓我們不斷提升可持續發展表現。歡迎您通過以下聯繫方式對本報告披露及本集團的可持續發展表現提出反饋和意見：

Sustainability Governance

The Group regards ESG as an essential part of facilitating the implementation of development strategy, and it is committed to creating value for all stakeholders. We believe that the involvement of the Board of Directors of the Company (the "Board") in ESG matters can effectively ensure our corporate visions are aligned with the ESG initiatives the Group has implemented, together with the expectations of our stakeholders.

The Board is responsible for supervising and reviewing the Company's sustainable development goals and strategy formulation. The direction, strategy, and reporting of the Group's ESG practices are governed by the Board of the Company. The Board authorizes the senior management to assess and determine ESG-related risks and is responsible for the day-to-day management of ESG matters and ensuring that appropriate and effective ESG risk management and internal control systems are in place. The Board is also accountable for the Report's contents' truthfulness, accuracy, and completeness. Furthermore, the Company has engaged Riskory Consultancy Limited, an independent ESG consultant, to assist the Group in ESG reporting, carbon neutrality planning, EcoVadis assessment and provide other ESG-related advisory services.

During the Reporting Period, the Company began preparing to participate in the EcoVadis sustainability rating assessment. This assessment evaluates the Company across several non-financial areas including environment, labor and human rights, ethics, and sustainable procurement relevant to their size, location, and industry. The assessment provides a score reflecting the Company's sustainability performance across the four themes, highlighting strengths and areas for improvement, and enables benchmarking against industry peers. The EcoVadis presents sustainability information clearly and actionably, which helps companies better manage, communicate, and take action to improve sustainability performance and make relevant sustainability risk management.

可持續發展管治

本集團將ESG視為推動發展戰略實施的重要組成部分，致力於為所有持份者創造價值。我們相信，董事會參與ESG事務可以有效確保我們的企業願景與本集團實施的ESG舉措以及持份者的期望保持一致。

本公司董事會（「董事會」）負責監督和審議本公司的可持續發展目標和制定戰略。本公司董事會管理本集團ESG實踐的方向、策略和報告。董事會授權高級管理層評估和確認與ESG相關的風險，並負責ESG事務的日常管理，並確保適當和有效的ESG風險管理和內部控制系統到位。董事會亦對本報告內容的真實性、準確性和完整性負責。此外，本公司已聘請獨立ESG顧問Riskory Consultancy Limited協助本集團進行ESG報告、碳中和規劃、EcoVadis評估，及提供其他ESG相關諮詢服務。

本報告期內，本公司開始準備參與EcoVadis可持續發展評級評估。該評估評估了本公司在多個非財務領域的評估，包括與其規模、地點和行業相關的環境、勞工和人權、道德和可持續採購。該評估提供了一個反映本公司在四個主題中的可持續發展表現的分數，突出的優勢和需要改進的領域，並能夠與行業同行進行基準測試。EcoVadis清晰、可操作地提供可持續發展資訊，幫助企業更好地管理、溝通和採取行動，以提高可持續發展績效並進行相關的可持續發展風險管理。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

For information about the Group's other corporate governance structure and other relevant information, please refer to the Corporate Governance Report in the Company's 2023 Annual Report.

有關本集團其他企業管治架構及其他相關信息，請參見本公司二零二三年年度報告中的企業管治報告。

Stakeholder Engagement

The expectations and opinions of key stakeholders form the basis for the Group to develop strategies for ongoing business growth and, more importantly, sustainable development for the community. To identify the insights and expectations on business operations of our stakeholders, the Group has been actively engaged with key stakeholders through various channels to collect and understand their opinions on our sustainability performance.

持份者參與

主要持份者的期望和意見是本集團制定持續業務增長戰略的基礎，更是社區可持續發展的基礎。為了解持份者對我們業務營運的見解及期望，本集團一直透過不同渠道積極接觸主要持份者，以收集及了解彼等對我們可持續發展表現的意見。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Materiality Assessment

With ongoing communications with our stakeholders, the Group continually assesses and improves our long-term sustainability strategies to meet the expectations of our stakeholders. During the Reporting Period, the Group conducted an internal materiality assessment to identify and prioritize the ESG issues that were material to the Group's business operation and our stakeholders. The material ESG issue list of the Group was formulated in reference to the HKEX's regulatory requirements, the Materiality Map published by the Sustainability Accounting Standards Board ("SASB"), and material issues identified by the peer-listed companies in Hong Kong. After the consideration and assessment of the Company's management, we have identified a total of 24 material ESG issues and there were 11 material ESG issues prioritized as the most important issues in this Report.

重要性評估

通過與持份者持續溝通，本集團不斷評估和改進我們的長期可持續發展戰略，以滿足持份者的期望。於報告期內，本集團進行內部重要性評估，以識別及優先考慮對本集團業務營運及持份者有重大意義的ESG事宜。本集團ESG重大議題列表是參考聯交所監管要求、可持續發展會計準則委員會（「SASB」）發布的重要性地圖以及香港同業上市公司識別的重大議題而製定的。經過本公司管理層的考慮和評估，我們在本報告中識別24項ESG重要議題，並將其中11項排列優次為最重要議題。

Material ESG Issues 重大ESG議題	Materiality 重要性
Environmental Aspect 環境層面 Air emissions, sewage discharge and waste management 排放物、污水排放及廢棄物管理 Greenhouse gas emissions 溫室氣體排放 Energy management 能源管理 Risk and opportunities management related to climate change 與氣候變化相關的風險和機遇管理	Most Important 最重要
Water and other resources management (including paper and packaging material) 水資源和其他資源管理(包括紙張和包裝材料)	Important 重要
Ecological and environmental protection 生態環境保護	Relevant 相關



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Material ESG Issues 重大ESG議題	Materiality 重要性
Social Aspect 社會層面 Employment compliance (including the prevention of child labour and forced labour) 僱傭合規性(包括防止童工和強制勞工) Employee health and safety 員工健康與安全 Compliance operation 合規經營 Anti-corruption, anti-fraud and reporting mechanism 反腐敗、反欺詐和舉報機制 Supply chain management (including environmental and social risk identification and management) 供應鏈管理(包括環境和社會風險識別和管理) Product quality and safety 產品質量與安全 Product design and life-cycle management 產品設計和生命週期管理	Most Important 最重要
Employment relationship, employee benefits and allowance 僱傭關係、員工福利和津貼 Employee training and development 員工培訓與發展 Emergency or crisis management 應急或危機管理 Material procurement efficiency and green procurement 物料採購效率與綠色採購 Technology development and innovation 技術研發與創新 Patents and intellectual property protection 專利及知識產權保護 Client management and complaint handling 客戶管理和投訴處理 Information security management 資訊安全管理	Important 重要
Equal opportunities, diversities, and anti-discrimination 平等機會、多元化和反歧視 Advertisement and promotion 廣告及宣傳 Community engagement and contribution 社區參與和貢獻	Relevant 相關



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Environmental Performance

Emission Control

Aspects A1: Emissions

As the leading global photovoltaic manufacturer, the Group continues investing in a more resource-efficient and greener manufacturing system by advancing innovative energy-saving and emissions-reducing technologies. The Group has established the Environmental and Safety Department to monitor and manage its eco-friendly facilities to ensure compliance with national pollutant and waste emission standards. Various measures are also being adopted to enhance environmental performance in daily operations and business activities.

The Group strictly complies with relevant environmental laws and regulations in all operating countries and regions, including but not limited to the “Environmental Protection Law of the People’s Republic of China”, the “Law of the People’s Republic of China on Environmental Impact Assessment” and the “Law of the People’s Republic of China on Noise Pollution Prevention and Control”. We regularly monitor updates to these regulatory requirements. During the Reporting Period, the Group did not subject to any fines or litigations related to environmental pollution.

Air Pollutant Emissions Control

Air emissions include nitrogen oxides (NOx), fluoride, and other pollutants regulated under national laws and regulations. Pollutants are primarily emitted from the raw material cleaning process, stationary combustion and mobile vehicle usage. Fluorochemical residues are produced from activated carbon filtration of the felt cartridges through the activated carbon-based organic gas flaring towers. Major air pollutant emissions of the Group are detailed below:

Types of Air Pollutant 空氣污染物的類型	Unit 單位	2023 二零二三年
Nitrogen oxides (NOx) 氮氧化物	Kg 公斤	1,436.44
Sulphur oxides (SOx) 硫氧化物	Kg 公斤	1.06
Particulate matter (PM) 懸浮微粒	Kg 公斤	88.02

環境表現

排放控制

層面A1：排放物

作為全球領先的光伏製造商，本集團繼續通過推進創新的節能減排技術，投資於資源效率更高、更環保的製造系統。本集團已成立環境及安全部，以監察及管理其環保設施，以確保符合國家污染物及廢物排放標準。此外，政府亦採取多項措施，以提升日常營運及商務活動的環保表現。

本集團嚴格遵守所有營運國家和地區的相關環境法律法規，包括但不限於《中華人民共和國環境保護法》、《中華人民共和國環境影響評價法》和《中華人民共和國噪聲污染防治法》。我們會定期監控這些監管要求的更新。於報告期內，本集團並無受到任何與環境污染有關的罰款或訴訟。

空氣污染物排放控制

空氣排放包括氮氧化物(NOx)、氟化物和其他受國家法律法規管制的污染物。污染物主要來自原材料清潔過程、固定燃燒和移動車輛使用。氟化學殘留物是通過活性炭基有機氣體燃燒塔對毛氈筒進行活性炭過濾而產生的。本集團主要空氣污染物排放情況詳述如下：



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Greenhouse Gas Emissions

The Group's greenhouse gas ("GHG") emissions were attributable to the direct emissions from stationary combustions and mobile vehicle usage, and the indirect energy emissions from the purchased electricity. The greenhouse gas emissions data of the Group are detailed as follows:

溫室氣體排放

本集團的溫室氣體排放主要來自於固定燃燒和移動車輛使用的直接排放，以及購買電力的間接能源排放。本集團的溫室氣體排放數據詳情如下：

Types of GHG Emissions 溫室氣體排放類型	Unit 單位	2023 二零二三年
Scope 1 — Direct emissions 範圍1 — 直接排放	Tonnes of CO ₂ equivalent emissions 噸二氧化碳當量排放	235.27
Scope 2 — Energy Indirect emissions 範圍2 — 能源間接排放	Tonnes of CO ₂ equivalent emissions 噸二氧化碳當量排放	60,554.45
Total GHG emissions 溫室氣體排放總量	Tonnes of CO ₂ equivalent emissions 噸二氧化碳當量排放	60,789.72
Intensity 密度	Tonnes of CO ₂ equivalent emissions/RMB million revenue 噸二氧化碳當量排放／收益(人民幣百萬元)	8.45

The Group aims to utilize energy efficiently and takes this as the primary approach to reducing greenhouse gas emissions in our long-term goal. Energy-saving projects have been implemented to continuously improve energy performance and lower carbon footprint, including air compressor frequency conversion transformation and air compressor heat recovery.

本集團的目標是有效利用能源，並將其作為減少溫室氣體排放的主要方法，以實現我們的長期目標。實施節能項目，不斷提高能源性能，降低碳足跡，包括空壓機變頻改造和空壓機熱回收。

Air Compressor Frequency Conversion Transformation Project 空壓機變頻改造項目



Frequency conversion transformation of air compressors saves energy while coping with systems' energy demands by effectively controlling compressor frequency and monitoring system pressure conditions in real time.

空壓機變頻改造通過有效控制壓縮機頻率和即時監控系統壓力狀況，在應對系統能源需求的同時節省能源。



Air Compressor Heat Recovery Project 空壓機熱回收項目

The air compressor heat recovery project recovers waste heat from compressors. This technique can also reduce heating system loads and improve energy efficiency through water heating.

空壓機熱回收工程回收壓縮機的餘熱。該技術還可以通過水加熱減少供暖系統負荷並提高能源效率。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Hazardous Waste and Non-Hazardous Waste Management

有害廢棄物和無害廢棄物管理

The following are the Group's major hazardous waste being produced during the process of modules production:

以下是本集團在組件生產過程中產生的主要有害廢棄物：



The data on hazardous waste generated by the Group is detailed as follows:

本集團產生的有害廢棄物具體數據如下：

Types of Hazardous Waste 有害廢棄物種類	Unit 單位	2023 二零二三年
Total hazardous waste generated 有害廢棄物的產生總量	Tonnes 噸	4.30
Intensity 密度	Tonnes/RMB million revenue 噸／收益(人民幣百萬元)	0.001



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

The Group's non-hazardous waste primarily includes paper, wood, and plastic packaging materials generated during production. Other non-hazardous wastes such as EVA and TPT were produced from module encapsulation.

本集團的無害廢棄物主要為生產過程中產生的包裝廢棄物，如紙張、木材、塑料包裝材料等。其他無害廢棄物，如EVA和TPT，在組件封裝過程中產生。

Ethylene vinyl acetate ("EVA") and Tedlar polyster tedlar ("TPT") 乙烯醋酸乙烯酯共聚物（「EVA」） 及太陽能電池背板（「TPT」）

- The trimming of redundant edge strips during the process of module encapsulation
組件封裝時多餘的邊條進行裁剪產生

Packaging waste 廢棄包裝物

- It includes the paper and wood packaging waste
包括紙質、木質廢棄包裝物

Plastic waste 廢塑料製品

- The plastic packaging waste during the production process
生產過程中產生的塑料類包裝

The data on non-hazardous waste generated by the Group is detailed as follows:

本集團產生的無害廢棄物數據明細如下：

Types of Non-Hazardous Waste 無害廢棄物種類	Unit 單位	2023 二零二三年
Total non-hazardous waste generated 無害廢棄物的產生總量	Tonnes 噸	1,181.50
Intensity 密度	Tonnes/RMB million revenue 噸／收益(人民幣百萬元)	0.16



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

The Group is committed to reducing emissions and executing effective waste management as our long-term target. Proper and standardized waste treatment is a high priority for minimizing environmental impacts from our business operations. As for the hazardous wastes generated during the production process, the Group engages industry-qualified waste collectors to manage the disposal and transposition of hazardous waste according to the relevant regulations. The non-hazardous waste is sorted and appropriately stored in designated locations before disposal. The saleable non-hazardous waste in good condition is sold to external recycling parties to minimize disposal volume.

Resources Management

Aspect A2: Use of Resources

The Group adheres to sustainable development, recognizing our resource-intensive business operations require comprehensive planning and implementation to minimize resource consumption from the environment. We strictly follow national, local and industry policies, regulations, and standards on energy conservation, such as the “Energy Conservation Law of the People’s Republic of China”. To achieve better resource efficiency comprehensively, we emphasize saving energy, water, materials, and land, and developing a circular economy. We strictly manages our use of resources to ensure reasonable use of resources during the business operations, and to avoid waste.

Energy Efficiency Management

The Group’s direct energy consumption is primarily from fossil fuels used in stationary combustion, usage of mobile vehicles and mobile equipment such as forklifts. Indirect energy is mainly purchased electricity for manufacturing operations at the Group’s production plants. The purchased electricity is largely consumed by production operations of modules.

本集團致力以減排及有效廢物管理為長遠目標。適當和標準化的廢棄物處理是將業務運營對環境影響降至最低的重中之重。至於生產過程中產生的有害廢棄物，本集團聘請具有行業資格的廢棄物收集商，根據相關法規管理有害廢棄物的處置和轉置。無害廢棄物在處置前經過分類並適當存放在指定地點。狀況良好的可銷售無害廢棄物則出售給外部回收方，以盡量減少處置量。

資源管理

層面A2：資源使用

本集團堅持可持續發展，認識到我們的資源密集型業務運營需要全面的規劃和實施，以盡量減少對環境資源的消耗。我們嚴格遵守國家、地方和行業關於節能的政策、法規和標準，如《中華人民共和國節約能源法》。為了全面提高資源效率，我們強調節約能源、用水、材料及土地資源，發展循環經濟。本集團嚴格管理資源使用，確保在業務運作中合理利用資源，並避免浪費。

能源效率管理

本集團的直接能源消耗主要來自固定燃燒的化石燃料、移動車輛和叉車等行動裝置的使用。間接能源主要是為本集團生產工廠的製造過程中使用的外購電力。外購電力主要用於組件的生產運營。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

The energy consumption data of the Group is shown as follows: 本集團的能源消耗數據如下：

Types of Energy Consumption 能源消耗類型	Unit 單位	2023 二零二三年
Direct energy consumption 直接能源消耗	MWh 兆瓦時	1,547.04
Indirect energy consumption 間接能源消耗	MWh 兆瓦時	106,180.00
Total energy consumption 能源消耗總量	MWh 兆瓦時	107,727.04
Intensity 密度	MWh/RMB million revenue 兆瓦時／收益(人民幣百萬元)	14.98

Water Efficiency Management

The Group is well aware that photovoltaic manufacturing requires a significant amount of water consumption. We are committed to responsibly utilizing water resources and have set this as a target for improving water efficiency. To oversee water consumption, the Group has established the “Prevailing Energy Management Regulations” and developed strategies aimed at reducing raw water use and enhancing water conservation efforts. Additionally, flowmeters have been fitted in our production plants to conduct regular monitoring and review the overall water usage.

用水效益管理

本集團深知光伏製造需要大量的水資源消耗，我們致力負責任地利用水資源，並將其作為提高用水效率的目標。為監管用水量，本集團制定了《現行能源管理規例》，並制定了旨在減少原水使用量和加強節約用水的策略。此外，我們的生產工廠還安裝了流量計，以進行定期監測和審查整體用水量。



Ultrapure Water Production Techniques 超純水生產技術

The Group has made continual advancements in the techniques and equipment used for ultrapure water production to increase pure water output and reduce raw water consumption. The concentrated water produced by ultrapure water systems is repurposed for production needs. 本集團在超純水生產技術和設備方面不斷進步，以增加純淨水產量並減少原水消耗。超純水系統產生的濃縮水被重新用於生產需求。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

During the Reporting Period, the Group's manufacturing facilities primarily utilized municipal water supplies, thus it had no issue in sourcing water that is fit for purpose.

於報告期內，本集團的生產設施主要使用市政供水，因此在求取適用水源上沒有任何問題。

Water Consumption 耗水量	Unit 單位	2023 二零二三年
Total water consumption 耗水總量	m ³ 立方米	340,741.00
Intensity 密度	m ³ /RMB million revenue 立方米／收益(人民幣百萬元)	47.37

Packaging Material Management

To meet the standard packaging requirements of most of our customers, the Group's main packaging materials for finished solar panel modules are cardboard boxes, pallets, and plastic packing straps.

包裝物料管理

為了符合我們大多數客戶的標準包裝要求，本集團成品太陽能電池板組件的主要包裝物料為紙箱、托盤及塑料打包帶。

Packaging Material Consumption 包裝物料消耗	Unit 單位	2023 二零二三年
Total packaging material consumption ¹ 包裝物料總耗量	Tonnes 噸	12,835.00
Intensity 密度	Tonnes/RMB million revenue 噸／收益(人民幣百萬元)	1.78

1. During the Reporting Period, the total packaging material consumption data has newly included pallets and plastic packing straps to better reflect the actual situation of the Group. As a result, the packaging material data will be higher when compared to the previous year.

1. 本報告期間，包裝物料總耗量新統計了托盤及塑料打包帶，以更好地反映本集團的實際情況，亦因此包裝物的數據會比去年多。

Environmental Impact Reduction

Aspect A3: The Environment and Natural Resources

Our operation activities have no significant impact on the environment and natural resources upon the assessment conducted by the Environmental and Safety Department. To minimize the impacts on the environment from our business operations, the Group implements measures for environmental protection, including using energy-efficient equipment to achieve additional energy savings and reduce waste. Instead of coal boilers, we use circulating water systems for winter heating to cut down on energy consumption. Furthermore, our production facilities are equipped with sewage treatment stations, acid mist treatment towers and purification towers. These measures achieve energy and consumption reduction, lessening pollutant emission impacts.

減少對環境的影響

層面A3：環境與自然資源

經環境及安全部評估後，我們的經營活動對環境和自然資源沒有重大影響。為盡量減少業務運營對環境的影響，本集團實施了環境保護措施，包括使用節能設備，以達到額外的節能和減少浪費。我們使用循環水系統進行冬季供暖，以減少能源消耗。此外，我們的生產設施還配備了污水處理站、酸霧處理塔和淨化塔。這些措施實現了能源和消耗的減少，減少了污染物排放的影響。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

The Group was awarded the Three-Star Certification by China Quality Certification Centre ("CQC") for "China Green Building Materials Products". We have taken practical actions to promote the wide application of photovoltaic green building materials in buildings and accelerate the realization of "carbon peaking and carbon neutrality" goals in the building industry.

本集團榮獲中國質量認證中心頒發的「中國綠色建材產品」三星級認證。我們採取實際行動，推動光伏綠色建材在建築中的廣泛應用，加快實現建築行業「碳达峰、碳中和」目標。



The Group also actively promoted "Earth Day", "World Environment Day", "World Cleanup Day" and "National Ecology Day" through our official social media platform to raise awareness of environmental protection among our stakeholders. Additionally, we encourage our employees to participate in the following green events to enhance their understanding and commitment to sustainability, including:

本集團亦透過官方社交媒體平台積極推廣「世界地球日」、「世界環境日」、「世界清潔地球日」及「全國生態日」，以提高持份者環保意識。此外，我們鼓勵員工參加以下環保活動，以加強他們對可持續發展的理解和承諾，包括：

Hong Kong Green Day 2023

An annual environmental event held on 5 June to celebrate the United Nations' World Environment Day and raise public awareness on environmental protection. The Group has participated in the Dress Green Campaign, to spread eco-awareness by encouraging our employees to wear green clothes or accessories on 5 June and throughout June.

香港綠色日2023

一年一度的環保活動於六月五日舉行，以慶祝聯合國世界環境日，提高公眾對環境保護的意識。本集團參與著「綠」行動，鼓勵員工在六月五日及六月期間穿上綠色衣服或配飾，以推廣環保意識。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

World Sustainable Transport Day 2023

First celebrated on 26 November 2023, it is a day to raise awareness about the importance of sustainable transport systems for a greener future. The day highlights the critical role of transport in our daily lives, emphasizing the need for cleaner and greener transportation options to support economic growth, social welfare, and international cooperation. Our support for this initiative includes encouraging our employees to commute using public transportation or opt for walking short distances. We also replaced in-person meetings with online meetings to minimize the need for travel.

Going forward, we will continuously contribute to environmental protection and strive for a greener environment as part of a shared community.

Combat Climate Change

Aspect A4: Climate Change

Governance

The Board is responsible for overseeing and determining the Group's sustainability and climate-related concerns. It sets objectives and conducts regular evaluations of the Group's performance on climate-related issues. The management follows the Board's guidance, develops strategies and leads the climate-related working group.

Risk Management

The climate-related working group consist of the environmental safety department manager and a front-line production manager, who regularly reports to management on climate-related risks. Management reviews these risks and ensures the effective implementation of relevant policies and measures. The process of risk identification, assessment, and management is incorporated into our annual risk management framework.

二零二三年世界可持續交通運輸日

於二零二三年十一月二十六日首次慶祝，旨在提高人們對可持續交通運輸系統對綠色未來重要性的認識。這一天強調了交通運輸在我們日常生活中的關鍵作用，強調需要更清潔、更環保的交通運輸選擇來支援經濟增長、社會福利和國際合作。我們對這一舉措的支援包括鼓勵我們的員工使用公共交通工具上下班或選擇短距離步行。我們還將面對面會議替換為在線會議，以盡量減少出差需求。

展望未來，我們將繼續為環境保護做出貢獻，並作為共用社區的一部分，努力創造更綠色的環境。

應對氣候變化

層面A4：氣候變化

管治

董事會負責監督及釐定本集團的可持續發展及氣候相關事宜。董事會設定目標並定期評估本集團在氣候相關問題上的表現。管理層遵循董事會的指導，制定戰略並領導氣候相關工作組。

風險管理

氣候相關工作組由環境安全部門經理和前線生產經理組成，他們定期向管理層報告氣候相關風險。管理層審查這些風險，並確保相關政策和措施的有效實施。風險識別、評估和管理過程已納入我們的年度風險管理框架。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Strategy

Climate change is undoubtedly a challenge faced by various industries. The Group has identified potential climate-related risks and opportunities. We have set out a series of countermeasures to mitigate the climate change impacts on the Group's business based on the risks and opportunities identified by the Group.

策略

氣候變化無疑是各行各業面臨的挑戰。本集團已識別與氣候相關的潛在風險和機遇。我們根據本集團發現的風險和機遇，制定了一系列應對措施，以減輕氣候變化對本集團業務的影響。

Risks and Opportunities

風險與機遇

The Company's Response

公司的回應

Potential Acute Risks

潛在急性風險

Suspension of energy and water supply

電力供應及供水中斷

Extreme weather may cause shortages in water and electricity supply. Utilization of the recycling water from the preset sewage station can secure the water supply temporarily. We have also prepared backup generators and fuel reserves to provide emergency power supply in case of electricity disruptions.

極端天氣有機會導致用水及電力無法正常供應。透過預設污水站的排水回收利用能夠暫時保障供水。我們還準備了備用發電機和燃料儲備在電力中斷的情況下提供緊急電源。

Physical damage towards the production facilities and equipment

對生產設施和設備的物理損壞

In order to mitigate the impact of natural disasters such as typhoons or floods, facilities with wind-resistance materials were designed with reference to the historical typhoon levels. Furthermore, flood protection facilities were installed. 為應付颱風或洪水等災害所帶來的影響，我們根據以往颱風等級去設計設施的抗風等級。此外，我們設置了防洪應急器材。

Increased risks of employee injury

增加員工受傷的風險

To safeguard employees against extreme weather, the Group will arrange flexible operation hours according to the warnings and guidelines issued by the local government authorities and the weather conditions. The production plant is also implemented with cooling and cold-resisting facilities.

為保障員工免受極端天氣的影響，本集團將根據當地政府部門發布的警告和指南和天氣情況安排靈活的工作時間。而生產廠房亦設有消暑及抗寒設施。

Potential Opportunities

潛在機遇

Sustainable Finance Strategy

可持續金融戰略

In response to the increasing demand from investors and financial institutions for environmentally friendly and low-carbon financial solutions, the Group is committed to integrating green finance principles and diversifying our financing methods as part of our long-term objectives.

因應投資者及金融機構對環保及低碳金融解決方案日益增長的需求，本集團致力整合綠色金融原則，多元化融資方法作為我們長期目標的一部分。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Metrics and Targets


In response to and align with Mainland China's "3060" dual carbon goals, the Group is committed to reducing carbon emissions within its production processes to support the country's climate objectives.

During the Reporting Period, we have successfully implemented various carbon reduction measures, including utilizing carbon offsets to achieve reduction in our greenhouse gas emissions intensity. The carbon offset project we have utilized is the Hebei ChengAn Biomass Cogeneration Project (Project ID: 3797) from the United Nations Clean Development Mechanism ("CDM"), which focuses on generating electricity by utilizing local straw from cotton. The electricity generated from this project is sold to the Hebei Provincial Power Grid, replacing the capacity of coal-fired power plants. The project does not only reduce greenhouse gas emissions but also promotes resource efficiency, environmental conservation, and socioeconomic benefits for local communities. The Certified Emission Reductions ("CERs") acquired from this project were instrumental in achieving carbon neutrality for the 19th Asian Games and the 4th Asian Para Games, both held in Hangzhou in 2022.

指標和目標

為回應並配合中國的“3060”雙碳目標，本集團致力於減少生產過程中的碳排放，以支援中國的氣候目標。

於報告期內，我們成功實施了多項減碳措施，包括利用碳抵消來降低溫室氣體排放強度。我們利用的碳抵消專案是聯合國清潔發展機制("CDM")的河北成安生物質熱電聯產專案(專案編號: 3797)，該專案的重點是利用當地棉花秸稈發電。該專案產生的電力出售給河北省電網，取代了燃煤電廠的發電。該項目不僅減少了溫室氣體排放，還促進了當地社區的資源效率、環境保護和社會經濟效益。該項目獲得的核證減排量("CERs")有助於實現二零二二年在杭州舉行的第十九屆亞運會和第四屆亞殘運會的碳中和。



United Nations
Framework Convention on
Climate Change

Date: 7 FEBRUARY 2024
REFERENCE: VC31959/2024

**VOLUNTARY
CANCELLATION
CERTIFICATE**

Presented to
Solargiga Energy Holdings Limited

Project
Hebei ChengAn Biomass Cogeneration Project

Reason for cancellation
Our company would like to contribute to climate action by offsetting our greenhouse gas emissions.

**Number of units
cancelled**

2 CERs
Equivalent to 2 tonne(s) of CO₂

Start serial number: CN-5-1186597239-1-1-0-3797
End serial number: CN-5-1186597240-1-1-0-3797
Monitoring period: 05-12-2010 - 04-12-2017

The certificate is issued in accordance with the procedure for voluntary cancellation in the CDM Registry. The reason included in this certificate is provided by the canceller.



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Social Performance

Employment and Labour Practices

Aspect B1: Employment

We comprehend that employee is not only valuable asset to the Group but also advocates our business to achieve success. The Group complied all relevant labour laws and regulations in Mainland China, including but not limited to the “Labour Law of the People’s Republic of China”, the “Labour Contract Law of the People’s Republic of China”, the “Social Insurance Law of the People’s Republic of China” and the “Regulation on the Administration of Housing Accumulation Funds”. During the Reporting Period, the Group was not aware of any material non-compliance with laws and regulations that significantly impacted the Group concerning compensation and dismissal, recruitment, and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare.

The Group offers competitive remuneration, promotion opportunities, compensation, and benefits packages to attract and retain talents. Salaries are reviewed regularly in reference to performance appraisals and market trends. Equal opportunity employment is strictly observed, ensuring no discrimination based on any personal attributes. All employment is based on personal capabilities and qualifications regardless of race, social status, religion, gender, age, national origin, citizenship, or any other grounds for discrimination. Our Human Resources Department has implemented anti-discrimination training to combat workplace discrimination.

We strive to foster a positive and healthy work environment, enhancing the productivity and well-being of our employees. Facilities like a football pitch and table tennis room are provided for employee recreation.

社會表現

僱傭和勞工常規

層面B1：僱傭

我們深知，員工不僅是本集團的寶貴資產，也是我們業務取得成功的宣導者。本集團遵守中國內地所有相關勞動法律法規，包括但不限於《中華人民共和國勞動法》、《中華人民共和國勞動合同法》、《中華人民共和國社會保險法》及《住房公積金管理條例》。報告期內，本集團並不知悉任何嚴重違反有關薪酬與解僱、招聘與晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利的法律及法規，且對本集團產生重大影響的事宜。

本集團提供有競爭力的薪酬、晉升機會、補償和福利待遇，以吸引和挽留人才。根據績效評估和市場趨勢定期審查工資。嚴格遵守平等就業機會，確保不因任何個人特質而受到歧視。所有就業均基於個人能力和資格，不分種族、社會地位、宗教、性別、年齡、國籍、公民身份或任何其他歧視理由。我們的人力資源部實施了反歧視培訓，以打擊工作場所的歧視。

我們努力營造積極健康的工作環境，提高員工的工作效率和幸福感。設有足球場、乒乓球室等設施，供員工娛樂。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

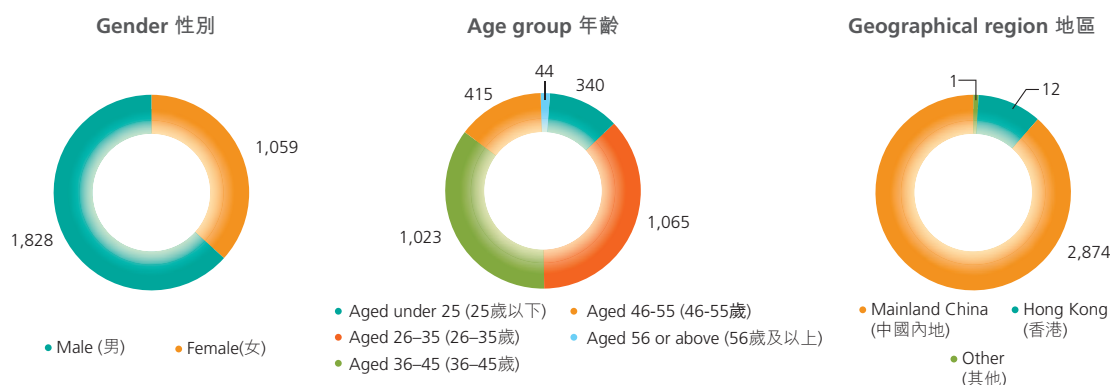
環境、社會及管治報告

Total Number of Employees

As at 31 December 2023, the Group had a total of 2,884 full-time employees 3 part-time employees, categorized by gender, age group and geographical region as follows:

僱員總數

截至二零二三年十二月三十一日，本集團共有2,884名全職員工，3名兼職員工，按性別、年齡組別及地區劃分如下：



The overall turnover rate of the Group during the Reporting Period was 46.8% and the details categorized by gender, age group, and geographical region are shown as follows:

報告期內，本集團整體流失率為46.8%，按性別、年齡組別、地區劃分的具體數據如下：

Turnover rate ¹ 流失率 ¹	Unit 單位	2023 二零二三年
By Gender	按性別	
Male	男	Percentage 百分比 49.9%
Female	女	Percentage 百分比 41.5%
By Age Group	按年齡組別	
Aged 25 or below	25歲或以下	Percentage 百分比 100.0%
Aged 26-35	26-35歲	Percentage 百分比 59.7%
Aged 36-45	36-45歲	Percentage 百分比 30.8%
Aged 46-55	46-55歲	Percentage 百分比 13.5%
Aged 56 or above	56歲或以上	Percentage 百分比 11.4%
By Geographical Region	按地區劃分	
Mainland China	中國內地	Percentage 百分比 47.0%
Hong Kong	香港	Percentage 百分比 16.7%
Other	其他	Percentage 百分比 0.0%

Note:

備註：

1. The employee turnover rate is calculated by the total number of employee turnover during the Reporting Period divided by the total number of employees at the end of the period. The percentage may exceed 100%.

1. 員工流失比率乃按整個報告期內的總流失人數除以期末員工總數計算，該百分比或會超過百分之百。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Health and Safety Management

Aspect B2: Health and Safety

The Group puts effort into providing our employees with a safe and healthy working environment, as their health and safety are always our top priority. We strictly comply with all relevant health and safety legislation, including but not limited to the “Law of the People’s Republic of China on the Prevention and Control of Occupational Diseases” and the “Fire Control Law of the People’s Republic of China.”

During the Reporting Period, the Group was not aware of any non-compliance issues that violated the laws and regulations regarding health and safety. The data related to health and safety of the Group are presented as follows:

Health and Safety Data 健康與安全數據		2023 二零二三年	2022 二零二二年	2021 二零二一年
Number of work-related fatalities	因工亡故人數	1	0	1
Rate of work-related fatalities ¹	因工亡故比率 ¹	0.03%	0%	0.03%

Note:

1. The rate of fatalities of work-related fatalities (per hundred workers) is the number of fatalities as a result of work-related injury ÷ number of employees × 100.

During the Reporting Period, the Group had a total of 938 lost days due to work injury.

Work Safety Management System

The Group places utmost importance on safe production and has implemented comprehensive health and safety policies to protect our work environment. All our employees are required to comply with the health and safety codes and manuals. The Group has conducted regular inspections at the production plants and engaged qualified professionals to identify the potential occupational health risks.

健康與安全管理

層面B2：健康與安全

本集團致力為員工提供安全健康的工作環境，因為保障他們的健康和安全始終是我們的首要任務。我們嚴格遵守所有相關的健康和安全法規，包括但不限於《中華人民共和國職業病防治法》和《中華人民共和國消防法》。

在報告期內，本集團未知悉任何違反健康與安全法律法規的不合規事項。本集團健康與安全相關的數據如下：

備註：

1. 工傷死亡率(每百名工人)是指工傷造成的死亡人數 ÷ 僱員人數 × 100。

報告期內，本集團因工傷共損失938天數。

安全生產管理制度

本集團高度重視安全生產，並實施了全面的健康及安全政策，以保護我們的工作環境。我們所有的員工都必須遵守健康和 safety 規範和手冊。本集團已於生產工廠進行定期巡查，並聘請合資格的專業人員識別潛在的職業健康風險。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Health and Safety Measures for Production Process

We are committed to heightening safety awareness among our workforce. New employees are provided with comprehensive health and safety training such as three-level safety training and occupational health and safety training. The Group has launched training courses on “Enterprise Safety Management about Zero Accident — Target of 100% Safety and Zero Accident”, aimed at minimizing work-related injuries and preventing fatalities. Warning signs regarding occupational hazards were posted at prominent positions within the working area to improve the safety level within the plants. Employees are equipped with appropriate personal protective equipment, including safety shoes, masks, acid-proof gloves and boots, earplugs, insulating gloves, and boots for work. Pre-employment medical screenings and annual health check-ups tailored to specific job hazards were provided for employees, so we can notice early abnormalities, prevent workers from developing occupational diseases and evaluate the effectiveness of existing preventative measures.

Talent Training Management

Aspect B3: Development and Training

Skilled talent is the Group’s solid foundation for driving sustainable business growth. A comprehensive and practical training program for our employees can reflect how they are valued in our corporate culture. The Group offers a diverse range of customized training modules that encompass corporate culture, occupational safety, laws and regulations, professional skills, and other aspects for employees from different departments to cope with their business needs and enhance their professional capability and help them accumulate experience.

The Group also ensure the employees stay informed about the latest industry trends and regulatory changes, which is essential to our operations and their respective roles. We regularly evaluate our training programs to review their effectiveness and alignment with our business needs.

生產過程的健康和安全措施

我們致力於提高員工的安全意識。為新員工提供全面的健康安全培訓，如三級安全培訓和職業健康安全培訓。本集團已推出「安全百分百事故零目標—企業零事故安全管理」培訓課程，旨在減少工傷事故和預防死亡事故。在工作區域內的顯眼位置張貼了有關職業危害的警告標誌，以提高工廠內的安全水準。員工配備適當的個人防護設備，包括安全鞋、口罩、防酸手套和靴子、耳塞、絕緣手套和工作靴。為員工提供針對特定工作危害的入職前體檢和年度健康檢查，以便及早發現異常，防止員工患上職業病，並評估現有預防措施的有效性。

人才培訓管理

層面B3：發展及培訓

技術人才是本集團推動業務持續增長的堅實基礎。為我們的員工提供全面而實用的培訓計劃可以反映出他們在我們企業文化中的價值。本集團為不同部門的員工提供多元化的定製培訓單元，涵蓋企業文化、職業安全、法律法規、專業技能等方面，以應對業務需求，提升專業能力，幫助他們積累經驗。

本集團還確保員工隨時瞭解最新的行業趨勢和監管變化，這對我們的運營和各自的角色至關重要。我們定期評估我們的培訓計劃，以審查其有效性並符合我們的業務需求。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Total Number of Employees Trained

The percentage of employees trained by gender and employee category during the Reporting Period are shown as follows:

受訓僱員的數目

報告期內按性別和僱員類別分列的受過培訓的僱員百分比如下：

Categories 類別	Unit 單位	2023 二零二三年
By Gender 按性別		
Male 男	Percentage 百分比	69%
Female 女	Percentage 百分比	77%
By Employee Category 按僱員類別		
Senior management 高級管理層	Percentage 百分比	62%
Middle management 中級管理層	Percentage 百分比	96%
General Staff 一般員工	Percentage 百分比	71%

The information on average training hours completed per employee during the Reporting Period is shown below:

報告期內，每名僱員完成受訓的平均時數如下：

Categories 類別	Unit 單位	2023 二零二三年
By Gender 按性別		
Male 男	Hours 小時	16
Female 女	Hours 小時	16
By Employee Category 按僱員類別		
Senior management 高級管理層	Hours 小時	14
Middle management 中級管理層	Hours 小時	16
General Staff 一般員工	Hours 小時	16



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Prevention of Child Labour and Forced Labour

Aspect B4: Labour Standards

The Group has adhered to relevant applicable laws and regulations in Mainland China, including but not limited to the “Labour Law of the People’s Republic of China”, the “Labour Contract Law of the People’s Republic of China” and the “Provisions on the Prohibition of Using Child Labour”. During the Reporting Period, we identified no significant legal non-compliance that would adversely affect our operations, specifically regarding child or forced labour.

To ensure that the employees can work in a peaceful and willing environment, the Group strictly prohibits the use of child or forced labour in its business operations. Our employment contracts explicitly forbid such practices. Identity verification and qualification review of applicant are executed during the recruitment process. If any information indicating violation of employment laws or standards is found after recruitment, the labour relationship will be terminated immediately to protect the rights and interests of both parties. Detail investigation will be carried out by the human resources department to prevent the recurrence of cases.

Supply Chain Management

Aspect B5: Supply Chain Management

The Group strives to effectively managing its supply chain and providing customers with premium products and services in an effort to meet and even exceed customers’ expectations. We maintain most of our significant suppliers a close, long-term partnership. We conducted non-regular suppliers’ evaluation to ensure that their product quality aligns with our clients’ standards.

During the Reporting Period, the Group had a total of 34 major suppliers. All suppliers are from the Mainland China.

防止童工和強制勞工

層面B4：勞工準則

本集團遵守中國內地相關適用法律法規，包括但不限於《中華人民共和國勞動法》、《中華人民共和國勞動合同法》及《禁止使用童工的規定》。在報告期內，我們沒有發現任何會對我們的運營產生不利影響的重大法律違規行為，特別是在童工或強制勞動方面。

為確保員工能夠在和平和自願的環境中工作，本集團嚴格禁止在業務運營中使用童工或強迫勞動。我們的僱傭合同明確禁止這種做法。在招聘過程中對申請人進行身份驗證和資格審查。如在招聘後發現任何違反勞動法或標準的資訊，將立即終止勞動關係，以保護雙方的權益。人力資源部門會進行詳細的調查以避免相關事件再次發生。

供應鏈管理

層面B5：供應鏈管理

本集團致力有效地管理供應鏈，為客戶提供優質的產品和服務，以期滿足甚至超越客戶的期望。我們與大多數重要供應商保持著密切、長期的合作夥伴關係。我們進行了不定期供應商的評估，以確保他們的產品品質符合客戶的標準。

報告期內，本集團共有34家主要供應商。全部供應商均來自中國內地。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

New and Existing Suppliers Management

The Group has clear regulations on engaging new suppliers and evaluating existing suppliers based on the supplier management control procedures. Before engagement, the Group will review the company information, including but not limited to examining their business license, business and product details, production capacity, main customer groups, testing equipment, customer complaint managing procedures, material safety data sheet (“MSDS”), environmental safety related qualifications and other materials. After that, our technicians and environmental and safety personnel will conduct a site visit to validate the provided information and to gain insights into the suppliers’ operational and management systems.

The Group also conducts regular factory inspections and performance evaluations of existing suppliers. Once an existing supplier is found to have any inappropriate behavior in the production process or fail to meet our performance benchmarks, they receive a formal notice. If the supplier does not take any restorative actions in time, the Group will cancel its supplier qualification. During the Reporting Period, all the major suppliers had been evaluated.

Sustainable Supply Chain Practices

In response to stakeholders’ concerns about the environmental and social impacts associated with our supply chain activities, such as raw materials sourcing and product distribution, the Group has implemented socially responsible and green procurement practices in response to the increasing focus on managing environmental and social risks in the supply chain.

For instance, our supplier agreement incorporates specific environmental requirements, and those who obtain reputable environmental-related certifications will be given priority as a consideration factor when selecting our potential suppliers. We will encourage the suppliers as well as their employees on green procurement and socially responsible sourcing, fostering a shared commitment to sustainability throughout our supply chain.

新增及現有的供應商管理

本集團對聘用新供應商以及根據供應商管理控制程式評估現有供應商有明確規定。在聘用前，本集團將審查公司資訊，包括但不限於審查其營業執照、業務及產品詳情、生產能力、主要客戶群體、檢測設備、客戶投訴管理程式、材料安全數據表(MSDS)、環境安全相關資質等材料。之後，我們的技術人員、環境和安全人員將進行實地考察，以驗證所提供的資訊，並深入瞭解供應商的運營和管理系統。

本集團亦定期對現有供應商進行工廠檢查及績效評估。一旦發現現有供應商在生產過程中有任何不當行為或未能達到我們的績效標準，他們就會收到正式通知。如供應商未及時採取任何恢復措施，本集團將取消其供應商資格。於報告期間內，我們已經對所有供應商進行評估。

可持續供應鏈實踐

為回應持份者對供應鏈活動(例如原材料採購及產品分銷)對環境及社會影響的關注，本集團已推行社會責任及綠色採購措施，以應對供應鏈中環境及社會風險管理的日益重視。

例如，我們的供應商協定包含特定的環境要求，在選擇我們的潛在供應商時，那些獲得信譽良好的環境相關認證的人將被優先考慮作為考慮因素。我們將鼓勵供應商及其員工進行綠色採購和對社會負責的採購，促進我們整個供應鏈對可持續發展的共同承諾。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Product and Service Quality Control

Aspect B6: Product Responsibility

The Group prioritizes customer satisfaction and loyalty, ensuring this through rigorous quality control at every stage of production. Procedures and policies are established to govern all sorts of claims and complaints. The Group adheres to complying with the laws and regulations related to health and safety, advertising, labelling, and privacy matters relating to products and services provided and methods of redress, including but not limited to the “Patent Law of the People’s Republic of China”, and the “Copyright Law of the People’s Republic of China”. We were not aware of any material non-compliance issues that violated the relevant laws and regulations during the Reporting Period.

Quality Assurance

The Group’s Quality Control Department conducts routine quality inspections, verifying that our products meet customer specifications and quality benchmarks. The Group always puts “Guaranteeing Product Quality” in the first place. For any returns or exchanges due to product defects, the Quality Control Department will re-inspect the returned products and make the appropriate course of action based on the cause of the defective products. During the Reporting Period, 0.0003% of sold or shipped products were recalled due to safety and health reasons.

After several years of unremitting efforts by the Group, our international advanced testing capabilities have been strictly infiltrated into the production and production of modules. With the continuous continuous enhancement of testing capabilities and strict implementation to these standards have elevated the quality of our components. During the Reporting Period, we have obtained the laboratory accreditation certificate (Certificate No.: CNAS L16766) issued by China National Accreditation Service for Conformity Assessment (the “CNAS”), demonstrating that our Photovoltaic Testing Center has officially entered the nationally recognized international laboratory team.

產品及服務質量控制

層面B6：產品責任

本集團將客戶滿意度和忠誠度放在首位，通過在生產的每個階段進行嚴格的品質控制來確保這一點。制定了程式和政策來管理各種索賠和投訴。本集團堅持遵守與所提供產品和服務及補救方法有關的健康與安全、廣告、標籤及隱私事宜相關的法律法規，包括但不限於《中華人民共和國專利法》和《中華人民共和國著作權法》。在報告期內，我們沒有發現任何違反相關法律法規的重大不合規問題。

質量檢定

本集團的品質控制部門進行例行質量檢查，以驗證我們的產品是否符合客戶的規格和品質基準。本集團始終把「產品質量保證」放在首位。對於因產品缺陷而導致的任何退貨或換貨，品質控制部門將對退回的產品進行重新檢查，並根據缺陷產品的原因採取適當的措施。在報告期內，共有0.0003%的已售或已運送產品因安全和健康原因召回。

經過本集團多年來的不懈努力，我們的生產流程及組件的生產已具備國際先進檢測能力。隨著測試能力的不斷增強和對這些標準的嚴格執行，我們組件的品質得到了提升。報告期內，我們已獲得中國合格評定國家認可委員會（「CNAS」）頒發的實驗室認可證書（證書編號：CNAS L16766），標誌我們的光伏檢測中心已正式進入國家認可的國際實驗室團隊。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

During the Reporting Period, the Group has received product certification from TÜV SÜD for our N-type TOPCon photovoltaic modules. The acquisition of the TÜV SÜD product certification signifies that our N-type modules have met the safety regulations required for the European market, playing a key role in the development and promotion of our overseas business. The TÜV certification is a safety mark specifically tailored for component products by the German TÜV, and it is highly authoritative. Obtaining this certification means that our photovoltaic modules will be more widely recognized in the global market.

於報告期內，本集團已獲得TÜV南德意志集團的N型TOPCon光伏組件產品認證。獲得TÜV南德意志集團產品認證意味著我們的N型組件符合歐洲市場所需的安全法規，在我們的海外業務的發展和推廣中發揮了關鍵作用。TÜV認證是德國TÜV專門為組件產品量身定製的安全標誌，具有很強的權威性。獲得這一認證意味著我們的光伏組件將在全球市場上得到更廣泛的認可。



Our N-type TOPCon photovoltaic module was honored with two prestigious awards, the “N-type TOPCon Golden Module Award” and the “Technology Innovation Award” in the 2023 MolePV Golden Leopard Award. These awards are the industrial recognition of the high efficiency components of our N-type TOPCon photovoltaic modules.

在2023年MolePV金豹獎中，我們的N型TOPCon光伏組件榮獲「N型TOPCon金組件獎」和「技術創新獎」兩項著名獎項。這些獎項是行業對我們N型TOPCon光伏組件高效組件的認可。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Key highlights of our N-type photovoltaic module include:

我們的N型光伏組件的主要亮點包括：

High efficiency and stability	Our module has industry-leading quality assurance, offering a standard 25-year/30-year linear power warranty for single-glass/double-glass module products. The module's annual degradation rate is low, with the first year at 2% and subsequent years at only 0.55% (single-glass)/0.45% (double-glass) per year. The first-year degradation rate of N-type products is smaller than 1%, and it is guaranteed that the output power after 30 years will not be less than 87.40% of the original power.
高效穩定	我們的組件具有行業領先的質量保證，為單玻／雙玻組件產品提供標準25年／30年線性功率質保。該組件的年衰減率較低，第一年為2%，隨後的年份僅為每年0.55%（單玻）／0.45%（雙玻）。N型產品第一年衰減率小於1%，保證輸出功率後30年將不低於原功率的87.40%。
Reliable quality	All our products have passed 104 test items, and the finished module products have performed excellently in enhanced testing, meeting 3 to 10 times the IEC standard environmental test requirements.
品質可靠	我們所有的產品都通過了104項檢測項目，成品組件產品在增強測試中表現出色，滿足IEC標準環境測試要求的3至10倍。
High-quality service	We provide high-quality service throughout the entire process, including pre-sale, in-sale, and after-sale stages.
優質服務	我們在整個過程中提供高質量的服務，包括售前、售中和售後階段。

Over the years, the Group has strictly controlled product quality, with a quality control system that covers the entire production process and traceability, consistently ranking at the forefront of the industry in terms of quality.

多年來，本集團嚴格把控產品品質，擁有覆蓋整個生產過程和可追溯性的品質控制體系，在品質方面始終位居行業前列。

Customer Service and Complaints Management

The Group values customer feedback as a motivation for ongoing enhancement of our product and services. The Group endeavor to take timely action to resolve the issue and take effective corrective measures if any complaint is received. The Quality Control Department will also conduct regular discussions and reviews to prevent the same incident from happening. During the Reporting Period, there was a total 26 cases of complaints received by the Group and all are properly handled. In addition, the Group was not aware of any other material complaint or damage claim on safety and health reasons of our product and service quality from our clients.

客戶服務及投訴管理

本集團重視客戶的反饋，以此作為不斷提升我們產品和服務的動力。本集團將努力及時採取行動解決問題，並在收到任何投訴時採取有效的糾正措施。品質控制部亦會定期進行討論及檢討，以防止同等事件再次發生。報告期內，本集團接獲26宗投訴，所有投訴已妥善處理。此外，本集團並不知悉因產品的安全與健康原因及服務質量引起的重大客戶投訴或損害索賠。

Privacy Protection

The Group acknowledges the privacy protection of individuals and business data to strengthen mutual trust with our clients. We have formulated relevant policy that only authorized personnel from relevant departments are permitted to collect, access, and manage confidential and sensitive information. All employees are prohibited from making copies or disclosing confidential information to third parties without prior approval from management or clients.

私隱保障

本集團重視保護個人及業務資料的私隱，以加強與客戶的互信。我們制定了相關政策，只有相關部門的授權人員才能收集、訪問和管理機密和敏感資料。未經管理層或客戶事先批准，禁止所有員工複製或向第三方披露機密資料。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Protection of Intellectual Property

Intellectual property is an essential asset to the Group, and we maintain a zero-tolerance policy towards infringement upon the intellectual rights of others. Also, the Group raises employees' awareness of intellectual property protection through internal publicity and employee training from time to time.

Upholding the Business Ethics in the Workplace

Aspect B7: Anti-corruption

The Group is committed to achieving the highest possible fairness, openness, and integrity standards. We strictly comply with the laws and regulations, including but not limited to the "Anti-Unfair Competition Law of the People's Republic of China", the "Anti-Money Laundering Law of the People's Republic of China" and the "Criminal Law of the People's Republic of China." During the Reporting Period, the Group was not aware of any case of breaching the relevant laws and regulations relating to corruption, bribery, extortion, fraud, or money laundering nor concluded legal cases regarding corrupt practices brought against the Group or our employees.

The Group strictly implements various operating procedures and codes of conduct to regulate the work ethics of the Group's employees. They are required to declare potential conflicts of interest. To prevent corruption in our supply chain and business partners, the Group has included a clause in the transaction contract, stating that the supplier shall not provide any direct or indirect benefits to the Group in any form for any reason. We also require our suppliers, construction units and relevant persons in charge of the project to sign an integrity declaration.

To further combat fraud and prevent corruption occur within the Group, we have established a whistle-blowing policy to allow our stakeholders to report any suspected corruption or unethical behaviors. Whistleblowers would be assured of fair treatment including protection against unfair dismissal and victimization and their identity will be kept confidential.

In recognition of the importance of ongoing education in preventing corruption, the Group is contemplating the introduction of anti-corruption training provided to directors and all employees. This initiative aims to reinforce the understanding of ethical standards and legal compliance, fostering a culture of integrity across all levels of the organization.

保護知識產權

知識產權是本集團的重要資產，我們對侵犯他人知識產權的行為採取零容忍政策。此外，本集團亦不時透過內部宣傳及員工培訓，提高員工的知識產權保護意識。

在工作場所堅守商業道德

層面B7：反貪污

本集團致力於實現最高的公平、公開和誠信標準。我們嚴格遵守法律法規，包括但不限於《中華人民共和國反不正當競爭法》、《中華人民共和國反洗錢法》和《中華人民共和國刑法》。報告期內，本集團未獲悉任何違反有關貪污、賄賂、敲詐勒索、欺詐或洗黑錢相關法律法規的案件，亦未結案涉及本集團或本集團員工的貪污行為。

本集團嚴格執行各項操作程式及行為準則，以規範本集團員工的職業道德。他們必須聲明潛在的利益衝突。為防止供應鏈及業務夥伴出現貪污，本集團在交易合約中加入一項條款，規定供應商不得以任何理由及形式向本集團提供任何直接或間接利益。我們還要求我們的供應商、施工單位和專案相關負責人簽署廉潔承諾書。

為進一步打擊欺詐行為及防止本集團內部發生貪污行為，我們制定了舉報政策，允許持份者舉報任何涉嫌貪污或不道德行為。舉報人將得到公平對待，包括防止不公平解僱和傷害，他們的身份將被保密。

本集團認識到持續教育在預防貪污方面的重要性，因此正在考慮為董事和所有員工提供反貪污培訓。此舉旨在加強他們對道德標準和法律合規的理解，在組織的各個層面培養誠信文化。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Caring for the Community

Aspect B8: Community Investment

The Group prioritizes community investment, particularly in supporting the elderly, education, and social welfare sectors. We have donated around RMB410,000 towards various areas, which included contributing RMB177,000 to the Solargiga Fund account (“陽光基金帳戶”) of the Municipal Charity Federation (“市慈善總會”) as the “2023 Three-Nil Elderly Support Project Fund” (“2023年三無老人幫扶項目金”); donating RMB20,000 to establish a library corner for Kulongtai Central Primary School (“窟窿台中心小學”) in Zhong'an Town, Beizhen City; helping alleviate poverty in Qumarleb County, Qinghai Province, by purchasing over RMB127,000 worth of cordyceps and yak food products from the county; installing 25 street lamps in Shifo Village, Beizhen, with a total cost of RMB50,000; and making other donations amounting to over RMB35,000. Additionally, we encourage our employees to participate in community activities, including:

Dress Casual Day 2023

A traditional fundraising event hosted by the Community Chest (the “Chest”) for three decades, it invites office workers and students to put on their comfortable casual outfits on this special day and raise funds in support of community needs. In 2023, the Chest partnered with the Hong Kong Police Force’s Child Protection Campaign, to enhance public awareness on child protection. The Group is thrilled and takes great pride in supporting the Chest’s endeavors. We have made donations and encouraged our employees to wear their preferred casual outfits on the event day.



Looking forward, the Group is committed to seeking opportunities to give back to the community. Our goals include promoting sustainable living, offering love and support to underprivileged groups, and upholding our role as a socially responsible entity.

關懷社區

層面B8：社區投資

本集團將社區投資列為優先事項，特別是在支持老年人、教育和社會福利部門方面。我們已向各個地區捐贈了約人民幣41萬元，包括向市慈善總會陽光基金帳戶注入人民幣17.7萬元作為「2023年三無老人幫扶項目金」；為北鎮市中安鎮窟窿台中心小學捐建圖書角人民幣2萬元；幫助青海省曲麻萊縣民脫貧，為該縣購買超過人民幣12.7萬元蟲草及犛牛食品；為北鎮石佛村修建路燈共25盞，總計費用人民幣5萬元；及另有超過人民幣3.5萬其他捐款。此外，我們還鼓勵員工參與社區活動，包括：

公益金便服日2023

公益金主辦了三十年的傳統籌款活動，邀請上班族和學生在這個特殊的日子穿上舒適的休閒裝，為社區有需要人士籌集資金。二零二三年，公益金與香港警務處的「保護兒童計劃」合作，提升及加強社會對保護兒童的意識。本集團對支援公益金的工作感到非常興奮和自豪。我們進行了捐贈，並鼓勵我們的員工在活動當天穿上他們喜歡的休閒裝。



展望未來，本集團致力尋找機會回饋社會。我們的目標包括促進可持續生活，為弱勢群體提供愛和支援，以及維護我們作為社會責任實體的角色。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Content Index of the ESG Reporting Guide

《環境、社會及管治報告指引》內容索引

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
Mandatory Disclosure Requirements 強制披露規定		
Governance Structure	A statement from the board containing the following elements: (i) a disclosure of the board's oversight of ESG issues; (ii) the board's ESG management approach and strategy, including the process used to evaluate, prioritise and manage material ESG-related issues (including risks to the issuer's businesses); and (iii) how the board reviews progress made against ESG-related goals and targets with an explanation of how they relate to the issuer's businesses	Sustainability Governance
管治架構	由董事會發出的聲明，當中載有下列內容： (i) 披露董事會對環境、社會及管治事宜的監管； (ii) 董事會的環境、社會及管治管理方針及策略，包括評估、優次排列及管理重要的環境、社會及管治相關事宜(包括對發行人業務的風險)的過程；及 (iii) 董事會如何按環境、社會及管治相關目標檢討進度、並解釋它們如何與發行人業務有關連	可持續發展管治
Reporting Principles		
匯報原則	A description of, or an explanation on, the application of the Reporting Principles (Materiality, Quantitative and Consistency) in the preparation of the ESG report 描述或解釋在編備環境、社會及管治報告時如何應用匯報原則(重要性、量化和一致性)	About the Report — Reporting Principles 關於本報告—匯報原則
Reporting Boundary		
匯報範圍	A narrative explaining the reporting boundaries of the ESG report and describing the process used to identify which entities or operations are included in the ESG report 解釋環境、社會及管治報告的匯報範圍，及描述挑選哪些實體或業務納入環境、社會及管治報告的過程	About the Report — Reporting Scope and Period 關於本報告—匯報範圍及 期間



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
'Comply or explain' Provisions 「不遵守就解釋」條文		
A. Environmental A. 環境		
<i>Aspect A1: Emissions</i> <i>層面A1：排放物</i>		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無 害廢棄物的產生等的：	Environmental Performance: Emission Control 環境表現：排放控制
KPI A1.1 關鍵績效指標A1.1	The types of emissions and respective emissions data 排放物種類及相關排放數據	
KPI A1.2 關鍵績效指標A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions (in tonnes) and, where appropriate, intensity 直接(範圍1)和能源間接(範圍2)溫室氣體排放量(以噸計算)及(如適用)密度	
KPI A1.3 關鍵績效指標A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity 所產生有害廢棄物總量(以噸計算)及(如適用)密度	
KPI A1.4 關鍵績效指標A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity 所產生無害廢棄物總量(以噸計算)及(如適用)密度	
KPI A1.5 關鍵績效指標A1.5	Description of emission target(s) set and steps taken to achieve them 描述所訂立的排放量目標及為達到這些目標所採取的步驟	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
KPI A1.6 關鍵績效指標 A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them 描述處理有害及無害廢棄物的方法，及描述所訂立的減廢目標及為達到這些目標所採取的步驟	
<i>Aspect A2: Use of Resources</i> 層面 A2：資源使用		
General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials 有效使用資源(包括能源、水及其他原材料)的政策	Environmental Performance: Resources Management 環境表現：資源管理
KPI A2.1 關鍵績效指標 A2.1	Direct and/or indirect energy consumption by type in total (kWh in '000s) and intensity 按類型劃分的直接及／或間接能源總耗量(以千個千瓦時計算)及密度	
KPI A2.2 關鍵績效指標 A2.2	Water consumption in total and intensity 總耗水量及密度	
KPI A2.3 關鍵績效指標 A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them 描述所訂立的能源使用效益目標及為達到這些目標所採取的步驟	Environmental Performance: Emission Control 環境表現：排放控制
KPI A2.4 關鍵績效指標 A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency target(s) set and steps taken to achieve them 描述求取適用水源上可有任何問題，以及所訂立的用水效益目標及為達到這些目標所採取的步驟	Environmental Performance: Resources Management 環境表現：資源管理
KPI A2.5 關鍵績效指標 A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced 製成品所用包裝材料的總量(以噸計算)及(如適用)每生產單位佔量	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
<i>Aspect A3: The Environment and Natural Resources</i> 層面A3：環境及天然資源		
General Disclosure 一般披露	Policies on minimising the issuer's significant impact on the environment and natural resources 減低發行人對環境及天然資源造成重大影響的政策	Environmental Performance: Environmental Impact Reduction 環境表現：減少對環境的影響
KPI A3.1 關鍵績效指標A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動	
<i>Aspect A4: Climate Change</i> 層面A4：氣候變化		
General Disclosure 一般披露	Policies on identification and mitigation of significant climate-related issues which have impacted, and those which may impact, the issuer 識別及應對已經及可能會對發行人產生影響的重大氣候相關事宜的政策	Environmental Performance: Combat Climate Change 環境表現：應對氣候變化
KPI A4.1 關鍵績效指標A4.1	Description of the significant climate-related issues which have impacted, and those which may impact, the issuer and the actions taken to manage them 描述已經及可能會對發行人產生影響的重大氣候相關事宜，及應對行動	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
B. Social		
B. 社會		
<i>Aspect B1: Employment</i>		
<i>層面 B1 : 僱傭</i>		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare 有關薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利的：	Social Performance: Employment and Labour Practices 社會表現：僱傭及勞工常規
KPI B1.1 關鍵績效指標 B1.1	Total workforce by gender, employment type, age group and geographical region 按性別、僱傭類型、年齡組別及地區劃分的僱員總數	
KPI B1.2 關鍵績效指標 B1.2	Employee turnover rate by gender, age group and geographical region 按性別、年齡組別及地區劃分的僱員流失比率	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
<i>Aspect B2: Health and Safety</i> 層面B2：健康與安全		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards 有關提供安全工作環境及保障僱員避免職業性危害的：	Social Performance: Health and Safety Management 社會表現：健康與安全管理
KPI B2.1 關鍵績效指標B2.1	Number and rate of work-related fatalities occurred in each of the past three years including the reporting year 過去三年(包括匯報年度)每年因工亡故的人數及比率	
KPI B2.2 關鍵績效指標B2.2	Lost days due to work injury 因工傷損失工作日數	
KPI B2.3 關鍵績效指標B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored 描述所採納的職業健康與安全措施，以及相關執行的監察方法	
<i>Aspect B3: Development and Training</i> 層面B3：發展與培訓		
General Disclosure 一般披露	Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities 有關提升僱員履行工作職責的知識及技能的政策。描述培訓活動	Social Performance: Talent Training Management 社會表現：人才培訓管理
KPI B3.1 關鍵績效指標B3.1	The percentage of employees trained by gender and employee category 按性別及僱員類別劃分的受訓僱員百分比	
KPI B3.2 關鍵績效指標B3.2	The average training hours completed per employee by gender and employee category 按性別及僱員類別劃分，每名僱員完成受訓的平均時數	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
<i>Aspect B4: Labour Standards</i> <i>層面B4：勞工準則</i>		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labour 有關防止童工或強制勞工的：	Social Performance: Prevention of Child Labour and Forced Labour 社會表現：防止童工及強制勞工
KPI B4.1 關鍵績效指標B4.1	Description of measures to review employment practices to avoid child and forced labour 描述檢討招聘慣例的措施以避免童工及強制勞工	
KPI B4.2 關鍵績效指標B4.2	Description of steps taken to eliminate such practices when discovered 描述在發現違規情況時消除有關情況所採取的步驟	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
<i>Aspect B5: Supply Chain Management</i> 層面B5：供應鏈管理		
General Disclosure 一般披露	Policies on managing environmental and social risks of the supply chain 管理供應鏈的環境及社會風險政策	Social Performance: Supply Chain Management 社會表現：供應鏈管理
KPI B5.1 關鍵績效指標B5.1	Number of suppliers by geographical region 按地區劃分的供應商數目	
KPI B5.2 關鍵績效指標B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目，以及相關執行及監察方法	
KPI B5.3 關鍵績效指標B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored 描述有關識別供應鏈每個環節的環境及社會風險的慣例，以及相關執行及監察方法	
KPI B5.4 關鍵績效指標B5.4	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored 描述在揀選供應商時促使多用環保產品及服務的慣例，以及相關執行及監察方法	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
<p><i>Aspect B6: Product Responsibility</i> 層面B6：產品責任</p> <p>General Disclosure</p> <p>一般披露</p>	<p>Information on:</p> <p>(a) the policies; and</p> <p>(b) compliance with relevant laws and regulations that have a significant impact on the issuer</p> <p>relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress</p> <p>有關所提供產品和服務的健康與安全、廣告、標籤及私隱事宜以及補救方法的：</p> <p>(a) 政策；及</p> <p>(b) 遵守對發行人有重大影響的相關法律及規例的資料</p>	<p>Social Performance: Product and Service Quality Control</p> <p>社會表現：產品及服務質量控制</p>
<p>KPI B6.1</p> <p>關鍵績效指標B6.1</p>	<p>Percentage of total products sold or shipped subject to recalls for safety and health reasons</p> <p>已售或已運送產品總數中因安全與健康理由而須回收的百分比</p>	
<p>KPI B6.2</p> <p>關鍵績效指標B6.2</p>	<p>Number of products and service related complaints received and how they are dealt with</p> <p>接獲關於產品及服務的投訴數目以及應對方法</p>	
<p>KPI B6.3</p> <p>關鍵績效指標B6.3</p>	<p>Description of practices relating to observing and protecting intellectual property rights</p> <p>描述與維護及保障知識產權有關的慣例</p>	
<p>KPI B6.4</p> <p>關鍵績效指標B6.4</p>	<p>Description of quality assurance process and recall procedures</p> <p>描述質量檢定過程及產品回收程序</p>	
<p>KPI B6.5</p> <p>關鍵績效指標B6.5</p>	<p>Description of consumer data protection and privacy policies, and how they are implemented and monitored</p> <p>描述消費者資料保障及私隱政策，以及相關執行及監察方法</p>	



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

環境、社會及管治報告

Aspects 層面	Description 描述	Relevant Section of this Report 本報告相關章節
<i>Aspect B7: Anti-corruption</i> <i>層面B7：反貪污</i>		
General Disclosure 一般披露	General Disclosure Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering 有關防止賄賂、勒索、欺詐及洗黑錢的：	Social Performance: Upholding the Business Ethics in the Workplace 社會表現：在工作場所堅守商業道德
KPI B7.1 關鍵績效指標B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases 於匯報期內對發行人或其僱員提出並已審結的貪污訴訟案件的數目及訴訟結果	
KPI B7.2 關鍵績效指標B7.2	Description of preventive measures and whistle-blowing procedures, and how they are implemented and monitored 描述防範措施及舉報程序，以及相關執行及監察方法	
KPI B7.3 關鍵績效指標B7.3	Description of anti-corruption training provided to directors and staff 描述向董事及員工提供的反貪污培訓	
<i>Aspect B8: Community Investment</i> <i>層面B8：社區投資</i>		
General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests 有關以社區參與來了解營運所在社區需要和確保其業務活動會考慮社區利益的政策	Social Performance: Caring for the Community 社會表現：關懷社區
KPI B8.1 關鍵績效指標B8.1	Focus areas of contribution 專注貢獻範疇	
KPI B8.2 關鍵績效指標B8.2	Resources contributed to the focus areas 在專注範疇所動用資源	





Solargiga Energy