

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



中期業績報告 Interim Report

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Corporate Information

公司資料

Board of Directors

Executive Directors

Mr. TAN Wenhua (Chairman)

Mr. TAN Xin Mr. WANG Junze

Non-executive Director

Mr. HSU You Yuan

Independent Non-executive Directors

Dr. WONG Wing Kuen, Albert

Ms. FENG Wenli (resigned with effect from 11 July 2022)

Mr. LIAN Tao

Ms. CHUNG Wai Hang (appointed with effect from 11 July 2022)

Company Secretary

Mr YFUNG Chi Tat

Audit Committee

Dr. WONG Wing Kuen, Albert (Chairman)

Ms. FENG Wenli (resigned with effect from 11 July 2022)

Mr. LIAN Tao

Ms. CHUNG Wai Hang (appointed with effect from 11 July 2022)

Remuneration Committee

Mr. LIAN Tao (Chairman)

Dr. WONG Wing Kuen, Albert

Ms. FENG Wenli (resigned with effect from 11 July 2022)

Mr. TAN Wenhua

Ms. CHUNG Wai Hang (appointed with effect from 11 July 2022)

Nomination Committee

Ms. CHUNG Wai Hang (appointed with effect from 11 July 2022) (Chairman)

Ms. FENG Wenli (resigned with effect from 11 July 2022)

Dr. WONG Wing Kuen, Albert

Mr. HSU You Yuan

Mr. LIAN Tao

Auditor

Ernst & Young

Certified Public Accountants

Registered Public Interest Entity Auditor

董事會

執行董事

譚文華先生(主席)

譚鑫先生

王鈞澤先生

非執行董事

許祐淵先生

獨立非執行董事

王永權博士

馮文麗女士(自二零二二年七月十一日起辭任)

廉濤先生

鍾瑋珩女士(自二零二二年七月十一日起獲委任)

公司秘書

楊志達先生

審核委員會

王永權博士(主席)

馮文麗女士(自二零二二年七月十一日起辭任)

廉濤先生

鍾瑋珩女士(自二零二二年七月十一日起獲委任)

薪酬委員會

廉濤先生(主席)

王永權博士

馮文麗女士(自二零二二年七月十一日起辭任)

譚文華先生

鍾瑋珩女士(自二零二二年七月十一日起獲委任)

提名委員會

鍾瑋珩女士(自二零二二年七月十一日起獲委任) (主席)

馮文麗女士(自二零二二年七月十一日起辭任)

王永權博士

許祐淵先生

廉濤先生

核數師

安永會計師事務所

執業會計師

註冊公共利益實體審計



Corporate Information

公司資料

Principal Bankers

Jinzhou Rural Commercial Bank
Bank of Jinzhou
Entie Commercial Bank
Taiwan Cooperative Bank
China Merchants Bank
China Zheshang Bank
Shanghai Pudong Development Bank
Jiangsu Jianhu Rural Commercial Bank
China Construction Bank
Industrial Bank
China CITIC Bank

Registered Office

Cricket Square Hutchins Drive P.O. Box 2681 Grand Cayman, KY1-1111 Cayman Islands

Head Office and Principal Place of Business in Hong Kong

Room 1402, Harbour Centre 25 Harbour Road Wanchai Hong Kong

Principal Share Registrar and Transfer Office

Suntera (Cayman) Limited Suite 3204, Unit 2A, Block 3 Building D, P.O. Box 1586 Gardenia Court, Camana Bay Grand Cayman, KY1-1100 Cayman Islands

Hong Kong Branch Share Registrar and Transfer Office

Computershare Hong Kong Investor Services Limited Rooms 1712–16, 17th Floor Hopewell Centre 183 Queen's Road East Wanchai Hong Kong

Authorised Representatives

Mr. WANG Junze Mr. YEUNG Chi Tat

Corporate Website

www.solargiga.com

主要往來銀行

註冊辦事處

Cricket Square Hutchins Drive P.O. Box 2681 Grand Cayman, KY1-1111 Cayman Islands

香港總辦事處暨主要營業地址

香港 灣仔 港灣道25號 海港中心1402室

股份過戶登記總處

Suntera (Cayman) Limited Suite 3204, Unit 2A, Block 3 Building D, P.O. Box 1586 Gardenia Court, Camana Bay Grand Cayman, KY1-1100 Cayman Islands

香港股份過戶登記分處

香港中央證券登記有限公司香港 灣仔 皇后大道東183號 合和中心 17樓1712-16室

法定代表

王鈞澤先生 楊志達先生

企業網站

www.solargiga.com



Company Profile 公司簡介

Solargiga Energy Holdings Limited (the "Company", together with its subsidiaries, the "Group", Hong Kong stock code: 757), is a leading supplier of solar energy services. Its products are not only sold to customers in the upstream and mid-stream industries, but also directly to end users.

During the period, the Group was mainly engaged in the following businesses:

- (a) the manufacture of, trading of and provision of processing services for monocrystalline silicon solar ingots/wafers;
- (b) the manufacture and trading of photovoltaic modules;
- (c) the construction and operating of photovoltaic power plants; and
- (d) the manufacture and trading of semiconductor, the trading of monocrystalline silicon solar cells and others.

The Group now focuses on the manufacturing and sales of upstream monocrystalline silicon ingots and wafers and downstream photovoltaic modules in the photovoltaic industry. Among them, the major customers of monocrystalline silicon ingots and wafers are large midstream solar cell manufacturers and the major customers of photovoltaic modules are large domestic state-owned enterprises, multinational corporations and other photovoltaic end-user customers. This enables the Group to fully demonstrate its current advantages in the production of such products. Moreover, the Group is engaged in the installation of photovoltaic systems and the development, design, construction, operation and maintenance of photovoltaic generation plants.

Currently, our integrated business model includes monocrystalline silicon solar ingot production with annual capacity of 6.2GW, solar wafer production with annual capacity of 4.5GW and modules production with annual capacity of 7.2GW, respectively.

陽光能源控股有限公司(「本公司」,連同其附屬公司統稱「本集團」,香港股份代號:757)為太陽能服務的領先供應商。其產品不僅向上游及中游工業客戶出售,而且直接向終端客戶出售。

回顧期內,本集團主要從事以下業務:

- (a) 太陽能單晶硅棒/硅片製造、買賣及提供加工服務:
- (b) 製造及買賣光伏組件;
- (c) 興建及經營光伏電站;及
- (d) 製造及買賣半導體以及買賣太陽能單晶硅電 池及其他。

本集團現專注於光伏產業上游單晶硅棒、單晶硅 片與下游光伏組件的製造及銷售,其中單晶硅棒 與單晶硅片的主要客戶是位於產業中游的電池片 生產大廠,而光伏組件的主要客戶則為大型央企 大型跨國企業與其他終端光伏應用客戶,充分發 揮了本集團既有之產品的生產優勢。另本集團亦 從事光伏系統安裝及光伏電站之開發、設計、建 設、運營及維護的一站式光伏發電解決方案。

目前,本集團的整合業務模式包括年產能6.2吉瓦的太陽能單晶硅棒生產業務、年產能4.5吉瓦的太陽能硅片生產業務以及年產能7.2吉瓦的組件生產業務。



Financial Highlights 財務摘要

RMB'000 人民幣千元

For the six months ended 30 June 截至六月三十日止六個月

		2018 二零一八年 (Unaudited) (未經審核)	2019 二零一九年 (Unaudited) (未經審核)	2020 二零二零年 (Unaudited) (未經審核)	2021 二零二一年 (Unaudited) (未經審核)	2022 二零二二年 (Unaudited) (未經審核)
Revenue	收益	1,813,778	1,847,235	2,599,661	2,820,623	3,146,960
Gross profit	毛利	183,084	91,266	279,135	371,516	267,072
Profit/(loss) for the period Profit/(loss) attributable to	期間利潤/(虧損) 歸屬於母公司股東的	(103,816)	(177,111)	(42,702)	120,646	133,683
owners of the parent Basic earnings/(loss) per share attributable to ordinary equity holders of the parent	利潤/(虧損) 歸屬於母公司普通股股東 的應佔每股基本盈利/ (虧損) (人民幣分)	(107,280)	(184,206)	(54,493)	61,339	67,733
(RMB cents)		(3.34)	(5.74)	(1.71)	1.86	2.04



管理層討論及分析

Market Overview

In the first half of 2022, global economic growth and the energy market were affected by the outbreak of the Russian-Ukrainian war and the epidemic. The World Bank released an economic forecast report in June, predicting that global economic growth will slow down from 5.7 percent in 2021 to 2.9 percent in 2022, significantly lower than 4.1 percent that was anticipated in January. The war disrupted energy supplies, causing the prices of all energy products to rise sharply. The European energy crisis has intensified, promoting the renewable energy boom. Wood Mackenzie, an international energy consultancy, expects annual global solar installed capacity additions to grow by 25% in 2022, with cumulative solar installations exceeding the 1,000 GW threshold. The World Energy Investment Report 2022, released by the International Energy Agency (IEA), also predicts that solar energy will account for 60% of the global renewable energy capacity growth this year, with new installed capacity reaching 190 GW, an increase of 25% over last year. China, the United States, Europe, and India will remain the key markets for solar energy in 2022, among which China will continue to be the market with the largest installed photovoltaic capacity in the world. To ensure energy independence and security, countries will pay more attention to the production capacity of renewable energy and the deployment of solar power during the war and the epidemic.

Entering 2022, China will continue to focus on increasing the scale of solar power generation as an essential task in the "14th Five-Year Plan". In January 2022, the Ministry of Industry and Information Technology, together with four other departments, including the National Energy Administration and the Ministry of Housing and Urban-Rural Development, issued the "Smart Photovoltaic Industry Innovation and Development Action Plan (2021–2025)" (the "Action Plan"). During the "14th Five-Year Plan" period, it will guide the industry's intelligent upgrade, improve the development of quality and efficiency of the photovoltaic industry, and ensure China ranks first in photovoltaic manufacturing and installation. In addition, nine departments including the National Development and Reform Commission and the National Energy Administration jointly issued the "14th Five-Year Plan for Renewable Energy Development" in June 2022, which clearly stated that by 2025, 3.3 trillion KW electricity per annum will be generated by renewable energy. The amount of wind and solar power has doubled, which shows the country's determination and support for the development prospects of the solar industry. According to statistics released by the National Energy Administration, in the first half of 2022, the installed capacity of solar power generation was approximately 340 million KW, a year-on-year increase of 25.8%. The China Photovoltaic Industry Association also pointed out that in the first half of this year, the new installation capacity reached 30.9 GW, a year-on-year increase of 137.4%. This data has exceeded the total installed capacity of the first ten months of last year, confirming the solid domestic demand for solar energy.

市場概覽

二零二二年上半年,全球經濟增長及能源市場均 受到俄烏戰爭爆發及疫情持續影響。世界銀行 (World Bank)於六月公佈經濟預測報告,預計全球 經濟增長將會放緩,二零二二年全球增長預期由 二零二一年的5.7%下降至2.9%,遠低於今年一月 預期的4.1%。戰爭擾亂了能源供應,導致所有能 源產品的價格大幅上漲。歐洲能源危機加劇,促 進可再生能源蓬勃發展。國際能源諮詢顧問公司 Wood Mackenzie預計二零二二年全球太陽能年新 增裝機容量將增長25%,累計太陽能安裝量將超 過1,000吉瓦的門檻。國際能源署(IEA)發佈的《2022 年世界能源投資報告》,亦預計太陽能將佔今年全 球可再生能源產能增長的60%,新增裝機容量達 到190吉瓦,比去年增長25%。中國、美國、歐洲 及印度仍然是二零二二年的太陽能重點市場,其 中,中國將繼續成為全球光伏裝機量最大的市場。 各國為保障能源獨立和能源安全,在戰爭及疫情 下將更加重視可再生能源的產能和太陽能發電的 部署。

進入二零二二年,中國繼續以大力提升太陽能發 電規模作為「十四五」規劃的重要任務。二零二三 年一月,工業和信息化部聯合國家能源局及住房 和城鄉建設部等五個部門發佈《智能光伏產業創新 發展行動計劃(2021-2025年)》(「行動計劃」),於 [十四五]期間引導行業智慧升級,提升太陽能產 業的發展品質和效率,確立中國繼續保持全球光 伏製造和裝機應用第一大國地位。此外,國家發 改委、國家能源局等九個部門於二零二二年六月 聯合印發《「十四五」可再生能源發展規劃》,明確 指出至二零二五年,在可再生能源年發電量達到 約3.3萬億千瓦時,風電和太陽能發電量實現翻 倍,可見國家對太陽能產業發展前景的決心及支 持。根據國家能源局發佈的統計資料,二零二二 年上半年,太陽能發電裝機容量約3.4億千瓦,同 比增長25.8%。中國光伏行業協會亦指出,今年上 半年太陽能新增裝機高達30.9吉瓦,同比增長 137.4%,此數據已超過去年前十個月裝機之總 和,印證國內太陽能需求強勁。

Market Overview (Continued)

According to data from PVInfoLink, a research institute in the solar energy industry, in the first half of 2022, the supply of silicon material was in short supply, and the continuous increase in the price of silicon material caused the whole industry to suffer cost pressure. In terms of output, according to data from the Ministry of Industry and Information Technology of China, the development momentum of the main segments of the national solar energy industry chain remain strong, with a year-on-year increase of more than 45%. In the first half of the year, national polysilicon production totaled approximately 365,000 tons, a year-on-year increase of 53.4%; silicon wafer production was about 152.8 GW, a year-on-year increase of 45.5%; the production of monocrystalline silicon increased by 61.3% year-on-year in the second guarter of the first half of the year, accelerating from the previous guarter by 37.3percentage points. Due to the continued strong demand in the overseas solar market, the export volume of modules in the first half of the year reached 78.6 GW, a year-on-year increase of 74.3%; the total export value of solar products reached a new high of approximately US\$25.9 billion, a year-on-year increase of 113.1%. China's solar energy industry continues to proliferate, demand for products is strong, and both volume and price are rising. Therefore, the China Photovoltaic Industry Association is optimistic that China's newly installed capacity will reach 85-100 GW in 2022.

市場概覽(續)

據太陽能行業研究機構PVInfoLink的數據顯示,二 零二二年上半年硅料供不應求,硅料價格持續上 漲,影響行業整個產業鏈都承受相應的成本壓力。 產量方面,根據中國工業和信息化部數據,全國 太陽能產業鏈主要環節的發展勢頭保持強勁,同 比增幅在45%以上。上半年全國多晶硅產量約為 36.5萬噸,同比增長53.4%;硅片產量約152.8吉 瓦,同比增長45.5%;單晶硅的產量在上半年第二 季度同比增長61.3%,較前一季度加快37.3個百分 點。由於海外太陽能市場需求持續旺盛,上半年 組件出口量達78.6吉瓦,同比增長74.3%;太陽能 產品出口總額再創新高,達到約259億美元,同比 增長113.1%。中國太陽能產業持續高增長、產品 需求旺盛,量價齊升,因此中國光伏行業協會樂 觀預計,二零二二年中國新增裝機全年可實現85 至100吉瓦。



Market Overview (Continued)

The solar industry in the United States faced multiple challenges in 2022, with growth slowing significantly. According to a report published by the Solar Energy Industries Association (SEIA) and Wood Mackenzie, the United States installed 3.9 GW of solar power capacity in the first guarter of 2022, bringing the total installed capacity to 126.1 GW, and solar was still the dominant energy type in the first guarter in the United States, accounting for half of the new power generation. The utility-scale solar market saw its most significant decline in the first guarter of 2022, down 41% from the same period of last year. It was the lowest quarterly installation since 2019, with new additions falling to the lowest level since 2017. In addition, the SEIA said that the United States Department of Commerce launched an anti-circumvention investigation in March. Most solar module manufacturers stopped exporting equipment to the United States to avoid tariff risks, causing industry-wide module shortages and delivering a significant blow to the solar industry. Until June, the United States had implemented a series of measures to stimulate the development of domestic clean energy manufacturing, announcing that it would suspend import tariffs on products such as solar modules and cells from Cambodia, Vietnam, Thailand, and Malaysia for two years, to alleviate the short-term module supply problem. The U.S. Department of Energy also announced an investment of US\$56 million to stimulate the domestic manufacturing and recycling of solar modules. After getting rid of the effect of the import duties of Anti-Dumping and Countervailing Duties, the demand for solar energy in the United States is expected to resume and provide a boost to the industry. The U.S. Energy Information Administration estimates that 20 GW of new solar capacity will be installed in 2022, implying an additional 31 billion kWh of power generation. In addition, U.S. President Biden signed the Inflation Reduction Act in August 2022, which includes US\$370 billion in spending on renewable energy and climate measures, a 30% subsidy for rooftop solar panels, and a requirement to reduce carbon emissions by about 40% nationwide by 2030. The Act will not only help the United States meet its climate goals, but also provide a boost to the country's solar development and manufacturing technologies.

市場概覽(續)

美國太陽能行業在二零二二年面臨多重挑戰,增 長速度大幅放緩。根據太陽能工業協會(SEIA)和 Wood Mackenzie發表的報告,美國在二零二二年 第一季度安裝了3.9吉瓦的太陽能發電容量,總裝 機容量達到126.1吉瓦,太陽能仍佔據了美國第一 季度一半的新增發電量。公用事業規模的太陽能 市場在二零二二年第一季度出現了最大跌幅,比 去年同期下降41%,並且經歷了自二零一九年以 來最低的季度安裝量,新增項目亦下降至自二零 一七年以來的最低水平。此外,太陽能工業協會 表示美國商務部在三月所發起反規避調查,大部 分太陽能組件製造商為了避免關稅風險而停止輸 出設備至美國,引發全行業組件短缺,對太陽能 產業造成極大打擊。直至六月,美國推出一系列 措施刺激國內清潔能源製造業發展,宣佈兩年內 暫停對來自柬埔寨、越南、泰國和馬來西亞的太 陽能組件和電池等產品徵收進口關稅,緩解短期 組件供不應求的問題。美國能源部亦宣佈投資 5.600萬美元刺激國內太陽能組件的製造和回收利 用,期望在擺脱雙反關稅陰影後,美國太陽能需 求重啟,有望藉此提振產業。美國能源信息署預 計二零二二年太陽能新增裝機容量為20吉瓦,意 味著期內將新增310億千瓦時的發電量。此外,美 國總統拜登於二零二二年八月簽署《降低通膨法 案》(Inflation Reduction Act), 法案包括3,700億美 元的可再生能源和氣候措施支出,屋頂安裝太陽 能板可享30%補貼,以及要求到二零三零年在全 國範圍內將碳排放量減少約40%。法案不但有助 美國實現其氣候目標,亦為該國的太陽能開發和 製造技術提供了推動力。



Market Overview (Continued)

In response to Russia's invasion of Ukraine, many European countries have boycotted oil and natural gas imported from Russia, and the energy supply has been dramatically affected. As a result, the European Commission has paid more attention to the issue of energy supply. It proposed the "REPowerEU" plan in May 2022, which aims to end Europe's dependence on Russia's fossil fuels and also addressing the climate crisis. The project sets out plans to scale up renewable energy to accelerate energy independence in Europe, including a dedicated solar plan for Europe to double installed solar capacity by 2025 to 600 GW by 2030. At the same time, the European Union decided to enact laws to make it mandatory for new public and commercial buildings, as well as residential buildings, to install solar energy systems. According to the PVInfoLink, with the exception of China. Europe is the region with the highest demand for solar energy products in 2022, and its solar energy demand will grow year by year, led by Germany. In addition, the heatwave in Europe from June to August this year further boosted solar power generation, with a quarter of the United Kingdom's electricity demand having been produced in just one day in July; and Bloomberg reported that Germany recorded the production of 38,174 MW of electricity in one day from solar energy. Solar Energy UK says more and more people are turning to solar power to save on energy bills, with figures pointing to more residential rooftop installations in the United Kingdom in the first month of 2022 than in all of 2021. With the support of Europe's renewable energy policy, the solar energy industry will flourish and maintain rapid growth.

市場概覽(續)

歐洲多國在俄羅斯入侵烏克蘭的背景下,紛紛抵 制由俄羅斯進口的石油與天然氣,能源供應大受 影響。歐盟委員會因而更加重視能源供應的議題, 於二零二二年五月提出《REPowerEU》計劃,旨在 結束歐盟對俄羅斯化石燃料的依賴,同時應對氣 候危機。計劃提出擴大可再生能源的規模,從而 加速歐洲的能源獨立,包括一項專門的歐盟太陽 能戰略,目標到二零二五年將太陽能裝機容量增 加一倍,到二零三零年增至600吉瓦。同時,歐盟 決定制定法律,強制要求新建的公共及商業建築, 以及住宅建築安裝太陽能系統。根據PVInfoLink, 歐洲是二零二二年除中國以外,對太陽能產品需 求最高的地區,其太陽能需求在以德國為首的帶 領下,將逐年成長。此外,今年六月至八月發生在 歐洲的熱浪推動了太陽能的發電量,如在七月時 曾於僅僅一天內生產了可滿足英國電力需求的四 分之一的發電量;據彭博社報導,德國亦通過太 陽能於一天內生產了約為38,174兆瓦的創紀錄的 電力。英國太陽能協會(Solar Energy UK)表示越來 越多人為節省能源費用而轉向太陽能發電,數據 指出英國二零二二年第一個月的住宅屋頂安裝量 已超過了二零二一年全年。在人們龐大的能源需 求以及歐盟再生能源政策的支持下,歐洲太陽能 產業相信會持續蓬勃發展,保持高速增長。



管理層討論及分析

Market Overview (Continued)

The Indian market still has solid solar demand in 2022, with steady growth. BRIDGE TO INDIA, a renewable energy market consultancy, pointed out that the first quarter of 2022 was a bumper quarter for the Indian solar market, with 4,418 MW of new solar power capacity added, representing the second highest capacity addition ever. The total installed capacity also reached 56,812 MW. According to a report jointly issued by India's Central Electricity Authority (CEA), India's Ministry of New and Renewable Energy (MNRE), and Mercom India Solar Project Tracker, India's cumulative installed renewable energy as of the end of the second guarter of 2022 reached a capacity of 159.8 GW. Solar systems continued to account for the largest share, with cumulative installed solar systems accounting for 14.2% of India's total installed capacity and 35.4% of total renewable energy capacity. However, the Indian market is also facing the challenges of soaring module prices and new tariffs on imported solar modules. As industry data provider GlobalData pointed out, India may not be able to produce 500 GW by 2030 to meet its renewable energy capacity targets. As a result, India may need to use its solar resources to increase production capacity to meet long-term climate goals.

In summary, countries around the world were affected by various unstable factors in the first half of 2022, and the economic performance may fall short of expectations. However, against this challenging backdrop, countries still maintain strong demand for solar energy, which shows a consistent global demand for solar energy. In a bid to address the climate crisis and achieve carbon neutrality, countries have made long-term and firm commitments to develop clean energy such as solar energy. Besides, the United Nations Climate Change Conference (UNFCCC COP 27) will be held in Egypt in November 2022. Countries will continue to promote global climate negotiations and help developing countries decarbonize. As they will submit long-term low-carbon development strategies for 2050 ahead of the meeting, the global solar energy industry will maintain a good growth momentum, and the prospects are promising.

市場概覽(續)

印度市場在二零二二年仍然有強勁的太陽能需求, 整體穩步增長。可再生能源市場顧問公司BRIDGE TO INDIA指出,第一季度對於印度太陽能市場而 言是一個豐收的季度,新增了4,418兆瓦太陽能功 率容量,是有史以來第二高,總裝機容量亦達到 了56,812兆 瓦。此外,根據印度中央電力局 (CEA)、印度新能源和可再生能源部(MNRE)及 Mercom India Solar Project Tracker公司聯合發表 的報告,印度截至第二季度末累計安裝的可再生 能源裝機容量達到159.8吉瓦,太陽能系統繼續佔 最大份額,累計安裝的太陽能系統的裝機容量佔 印度總體裝機容量的14.2%,同時佔可再生能源 總裝機容量的35.4%。然而,印度市場同樣面對組 件價格飆升及對進口太陽能組件徵收新關稅的挑 戰,因此行業數據供應商GlobalData指出,印度可 能無法達到在二零三零年生產500吉瓦可再生能源 產能的目標。因此,印度或需要更善用其太陽能 資源的優勢,增加產能以實現長期氣候目標。



Operations Review

Operations Summary

Clean and renewable energy has become a new trend of the world. With a well-developed technology, photovoltaic power is now the renewable energy with the greatest development potential and the lowest cost compared with the inflated fossil fuel prices, so the rapid growth in demand for photovoltaic products in the future will be inevitable. The Group focuses on the manufacturing and sales of upstream monocrystalline silicon ingots, wafers and downstream photovoltaic modules in the photovoltaic industry. Our major customers of monocrystalline silicon ingots and wafers are large midstream solar cell manufacturers and our major customers of photovoltaic modules are large domestic state-owned enterprises in the People's Republic of China (the "PRC"), multinational corporations and other photovoltaic end-user customers. Moreover, the Group is engaged in the installation of photovoltaic systems and the development, design, construction, operation and maintenance of photovoltaic generation plants.

As the first batch of domestic photovoltaic enterprises engaged in the production of czochralski monocrystalline silicon ingots, with 20 years of experience in manufacturing monocrystalline silicon ingot, the Group now has accumulated mature experience in terms of technology, domestic and overseas market development, industrial chain cooperation, brand effect, premium services, etc. Subsidiaries of the Group have obtained 287 National patents, more than 30 provincial and municipal science and technology first prizes, second prizes, achievement awards. The awards are: National high-tech enterprise, National green factory, Provincial Enterprise Technology Center, Provincial Engineering Technology Research Center, Photovoltaic Testing Center with China National Accreditation Service for Conformity Assessment's laboratory accredited, Global Top 500 New Energy Companies (No.173), Top 100 New Energy Companies Global Competitiveness (No.92), Top 500 PRC Energy Group Companies (No.267), Top 20 PRC Comprehensive Companies in 2022 (No.19), Top 20 PRC PV Module Companies in 2022 (No.12). The Group is the vice chairman unit of PRC Photovoltaic Industry Association, vice chairman unit of Semiconductor Materials Branch of and standing council unit of China Electronic Materials Industry Association, Household Photovoltaic Professional Committee unit, Standardization Technical Committee unit and Photoelectric Building Professional Committee unit of China Photovoltaic Industry Association and expert member of Photovoltaic Professional Committee of China Renewable Energy Society. Solar photovoltaic modules are rated as national grade's green design products. The Group is also the first in the world to be SHARP'S largest ODM processing services partner for photovoltaic module for nine consecutive years, the OEM for the State Power Investment Group (one of the five major power generation groups all year round), the major supplier of double-sided double glass modules in the 2018 Front Runner Plan and the major module supplier for the power configuration project of the UHV transmission base in Hainan, Qinghai Province, a national key project in 2019.

營運回顧

業務介紹

本集團作為國內第一批從事直拉單晶硅棒的光伏 企業,通過二十年來在單晶硅棒行業的深耕,當 前無論在技術上積累、海內外市場開拓、產業鏈 合作關係、品牌效應、優質的服務等方面均具有 較為成熟的經驗積累。本集團子公司至今獲得287 項國家專利,30餘項省市科學技術一等獎、二等 獎、成果獎,是國家高新技術企業、國家級綠色工 廠、省級企業技術中心、省級工程技術研究中心、 中國合格評定國家認可委員會(CNAS)實驗室認證 的光伏檢測中心、全球新能源500強企業 (NO.173)、新能源企業全球競爭力100強(NO.92)、 中國能源集團500強企業(NO.267)、二零二二年中 國光伏企業20強綜合類(NO.19)、二零二二年中國 光伏組件企業20強(NO.12),是中國光伏行業協會 副理事長單位、中國電子材料行業協會常務理事 單位及其半導體材料分會副理事長單位、中國光 伏行業協會户用光伏專業委員單位、標準化技術 委員單位及光電建築專業委員單位和中國可再生 能源學會光伏專委會專家委員。太陽能光伏組件 被評為國家級綠色設計產品。集團也是全球首家 連續9年成為日本夏普最大ODM光伏組件代工廠, 常年為五大發電集團之一的國家電力投資集團進 行代工,二零一八年國家領跑者基地雙玻雙面組 件主要供應商、也是二零一九年國家重點項目青 海省海南州特高壓外送基地電源配置項目的主要 組件供應商。



管理層討論及分析

Operations Review (Continued)

Operations Summary (Continued)

Currently, the Group has set the "one base, two wings" layout strategy, with Jinzhou in Liaoning as the base, Qujing in Yunnan and Yancheng in Jiangsu as two side wings. As at the end of June 2022, the total annual production capacity of our production bases were 6.2 GW of monocrystalline silicon ingot, 4.5 GW of monocrystalline silicon wafers, and 7.2 GW of modules due to the production scale, the high-efficiency and high production capacity layout of the Group. The Group has been starting to demonstrate stronger comprehensive competitiveness and further increase the market share of high quality but low-cost products.

Silicon ingot and wafer business

The Group is one of the earliest enterprises in the PRC to invest in the production of monocrystalline silicon ingots and wafers. At present, monocrystalline silicon ingot products are mostly used for the internal production of monocrystalline silicon wafers within the Group, and less engaged in external sales. Monocrystalline silicon wafer products of the Group are mostly sold to third-party large professional solar cell manufacturers. During the period, since monocrystalline products are advantageous over multicrystalline products in photovoltaic power generation, the market share of monocrystalline products has continued to increase rapidly. As such, demand for monocrystalline silicon wafers of the Group has continued to increase. With the continuing realisation of advantages such as the relating high potential for improvement in conversion efficiency of monocrystalline products and continuing reduction in unit costs due to improving technology, the monocrystalline technology, which has been the focus of the Group in the past two decades, has officially become the only mainstream in the market.

Apart from the traditional monocrystalline P-type products, the Group has monocrystalline N-type products with higher conversion efficiencies. Currently, photovoltaic cells are mainly produced by PERC (Passivated Emitter and Rear Cell) and PERC+technology with P-type silicon wafer base. TOPCon (Tunnel Oxide Passivated Contact) cells and heterojunction HJT cells with monocrystalline N-type silicon wafer base are expected to become the mainstream of next-generation photovoltaic cells. The Group has many years of experience in joint research and development with large multinational corporate customers. The Group has accomplished technical breakthrough and product marketisation of monocrystalline N-type silicon ingot at an earlier time. N-type silicon ingots and wafers have also been supplied to domestic and foreign customers at an earlier time, and N-type ingots are in a leading position in the industry in respect of various indicators having obvious advantages.

Major customers of external sales of monocrystalline silicon wafers included large-scale photovoltaic cell manufacturers and huge state-owned enterprises in China.

營運回顧(續)

業務介紹(續)

本集團當前已經形成以遼寧錦州為基地,雲南曲靖和江蘇鹽城為兩翼的[一基兩翼]佈局模式,於二零二二年六月底,各生產地合計擁有單晶硅棒年產能6.2吉瓦,單晶硅片年產能4.5吉瓦,組件年產能7.2吉瓦,透過生產規模,高效產能的佈局完成,已開始展現更強的綜合競爭力並進一步提升質優但低成本產品的市場份額。

單晶硅棒及單晶硅片業務

本集團為中國最早投入單晶硅棒及硅片生產的企業之一,目前單晶硅棒產品多作為集團內面單晶硅片之用,而較少從事外部銷售,而單品時則是銷售給外部第三方之專業太陽能電池大廠用內,由於單晶產品相較多晶產品於光伏續電光。隨著單晶產品轉換效率的潛在提升不較一點, 生產技術提升所造成的單位成本可持續大下降 等優勢浮現,本集團過去二十年來所專注的單 技術路線已正式成為市場唯一主流。

集團除了傳統的單晶P型產品外,亦有更高光電轉換效率的單晶N型產品。目前光伏電池主要是以P型硅片為基底的PERC (Passivated Emitter and Rear Cell)和PERC+技術為主,以單晶N型硅片為基底的穿隧氧化層鈍化電極TOPCon (Tunnel Oxide Passivated Contact)電池和異質結HJT電池有望成為下一代光伏電池的主流。本集團具備多年與大型跨國企業客戶共同研發的經驗,較早完成了單晶N型硅棒的技術突破和產品市場化驗證,N型硅棒與硅片亦較早供應給等國內外客戶,N型晶棒各項指標行業領先,優勢明顯。

單晶硅片對外銷售的主要客戶包括國內大型太陽 能電池企業及國內大型央企。

Operations Review (Continued)

Silicon ingot and wafer business (Continued)

The Group's production base of monocrystalline silicon ingot and monocrystalline silicon wafer located in Qujing, Yunnan, the PRC with annual production capacity of 0.9 GW project has carried out mass production since 2021. As the investment in Qujing, Yunnan not only enjoys various preferential investment policies from the local government, but more importantly, the decrease in local electricity cost (being the major manufacturing cost component of ingot-pulling) of more than 50% compared to that at previous major production base in Jinzhou, Liaoning, which will strengthen the improvement of the Group's overall gross profit margin as a result of the reduction of production cost in the long run. Therefore, the Group has been expanding the production capacity of monocrystalline silicon ingot and monocrystalline silicon wafers in Qujing, Yunnan under the rapid growth of customer demand. As of the end of June 2022, the annual production capacity of monocrystalline silicon ingots in Qujing, Yunnan, has increased to 5 GW from 4.3 GW at the end of 2021, and the annual production capacity of monocrystalline silicon wafers has also increased to 2.8 GW from 2.5 GW at the end of 2021. It is expected that by the end of 2022, the annual production capacity of monocrystalline silicon ingot and silicon wafers in Quiing, Yunnan will be increased to 6.0 GW and 3.6 GW respectively, representing 81% of the Group's total annual production capacity of monocrystalline silicon ingots of 7.4 GW and 49% of the group's total annual production capacity of monocrystalline silicon wafers of 7.4 GW, respectively. With the substantial release of this low-cost and high-efficiency production capacity, not only the gross profit margin will boost up in the future, but also the Group's self-developed technological advantages and progress can be fully unleashed.

Module businesses

In order to concentrate resources to develop other more niche products, the Group has adjusted its operating strategy by no longer manufacturing solar cells since 2020, but instead manufacturing upstream monocrystalline silicon wafers (ingot) and downstream modules as dual major products.

The Group has been engaged in module production since 2009, and has accumulated rich experience and advanced production technology and process in monocrystalline module production. The P-type PERC module of the monocrystalline products that the Group focuses on has not only become the mainstream in the market, but it also further expanded and strengthened the development and sales of monocrystalline silicon high-efficiency module products such as P-type double-sided double glass modules, half-cell photovoltaic modules, multi busbar cell module, and other high-end products.

營運回顧(續)

單晶硅棒及單晶硅片業務(續)

本集團生產基地位於中國雲南省曲靖市之單晶硅 棒及單晶硅片年產能0.9吉瓦項目,自二零二一年 起已大規模量產,由於雲南曲靖之項目投資不僅 可享受當地政府各項優惠的招商政策, 更重要的 是作為拉晶主要生產成本組成部分的電費,於雲 南曲靖當地約僅需之前主要生產基地遼寧錦州的 50%,由於生產成本降低,因此從長遠來看可強 化集團整體毛利率的提升,故本集團在客戶需求 急速增長下,將持續於雲南曲靖擴充單晶硅棒與 單晶硅片的產能。截至二零二二年六月底,雲南 曲靖單晶硅棒年產能已由二零二一年底的4.3吉瓦 提高至5吉瓦,單晶硅片年產能亦已由二零二一年 底的2.5吉瓦提高至2.8吉瓦,預期二零二二年底 時,雲南曲靖單晶硅棒與單晶硅片年產能將再分 別提升至6.0吉瓦與3.6吉瓦,將分別佔有集團單晶 硅棒年總產能7.4吉瓦的81%與佔有集團單晶硅片 年總產能7.4吉瓦的49%,藉由該低本高效的產能 大幅釋放,未來不僅可帶動毛利率攀高,亦可使 得集團的自主研發技術優勢和進步更能充分發揮。

組件業務

為了集中資源以發展其他更具利基的產品,本集團調整營運策略,於二零二零年起已決定不再繼續自行生產太陽能電池,改以生產銷售上游單晶硅片(硅棒)與下游組件為雙主力產品。

本集團自二零零九年起即開始從事組件生產,於單晶組件製造積累了豐富的經驗及先進的生產技術和流程。本集團所專注的單晶產品之P型PERC組件不但已成為市場主流,還致力於單晶高效組件產品的開發與銷售,如P型雙面雙玻組件、半片電池組件、多主柵電池組件等高端產品。



管理層討論及分析

Operations Review (Continued)

Module businesses (Continued)

The current main base of the Group for monocrystalline module production is located in Yancheng, Jiangsu. In addition to the various preferential investment policies from the local government, the Company can take advantage of significantly lowering the investment in capital expenditure by renting plant buildings. Moreover, the area around the Yangtze River Delta is an agglomeration area for the supply of raw and auxiliary materials which provides advantage in terms of procurement. In order to meet the needs of module customers, the Group continues to expand module production capacity in Yancheng, Jiangsu, to further strengthen the economic scale advantage of module products. As of the end of June 2022, the module production capacity of the production base in Yancheng, Jiangsu was 5.4 GW, while the total module production capacity of the Group was 7.2 GW. It is expected that by the end of 2022, the production capacity of Yancheng, Jiangsu would be increased to 6.4 GW, which would also drive the Group's overall module production capacity to 8.2 GW.

External sales of modules were mainly made to large state-owned enterprises and international multinational enterprises, such as State Power Investment Corporation (中國國家電力投資集團公司) ("SPIC"), SHARP Corporation ("SHARP"), Xinyi Glass Holdings Limited and Xinyi Solar Group (信義玻璃與信義光能集團), Sungrow Power Supply Co., Ltd (陽光電源股份有限公司), Shandong Hi-Speed New Energy Group and Astronergy etc. The Group has been SHARP's largest processing services partner for photovoltaic module for nine consecutive years and has been cooperating in continually expanding module sales for foreign customers.

The Group focuses on the manufacturing of monocrystalline silicon photovoltaic products. Currently, proportion of sales of the Group's monocrystalline silicon photovoltaic modules has reached over 98%. Further, the Group has also introduced SHARP's global leading 40-year quality assurance system for photovoltaic products. The quality of the products is stable and reliable, which could bring long-term and stable income to end-user owners.

營運回顧(續)

組件業務(續)

本集團目前單晶組件主要製造基地位於江蘇省鹽城市,除了可憑藉當地政府的各項優惠招商兩開外,並可藉由租賃廠房方式以大幅降低資為為開發入。此外,由於長江三角附近原本即為為為人。此外,由於長江三角附近原本即經歷本期,為了滿足組件客戶的需求,本集組件產能,以再進一步強化原連,上產基地江蘇鹽城組件產能,以再進一步強化原組供,生產基地江蘇鹽城組件產能為5.4吉瓦,集團時期為7.2吉瓦,但預期於二零二二年與時,上蘇鹽城產能將增加至6.4吉瓦,因而也帶動集團整體組件總產能達到8.2吉瓦。

組件對外銷售的主要客戶為國內大型央企和國際跨國企業,如中國國家電力投資集團公司(「國電投」)、日本夏普(SHARP Corporation「SHARP」)、信義玻璃與信義光能集團、陽光電源股份有限公司、山高新能源集團、正泰新能源等。其中,本集團已連續9年成為日本夏普最大的光伏組件代工廠,並一同合作持續的拓展國外客戶的組件銷售。

本集團作為專注於單晶光伏產品製造商,目前單晶組件銷售比例已超過98%的水平,且本集團亦導入夏普光伏產品全球領先的40年質量保障體系,產品質量穩定可靠,可為終端電站業主帶來長期穩定的收益。



Operations Review (Continued)

Construction and operation of photovoltaic system business

The Group has been actively expanding the end-user power plants construction and application business apart from devoting its efforts in stabilising the development of its manufacturing business, which not only drives the sales of module products in a bottom-up manner, but also it will spread the profit of construction and operation of photovoltaic system businesses so as to improve the overall profitability of the Group. The Group's photovoltaic system business includes traditional distributed power station EPC business, Building Applied Photovoltaics (BAPV) business and Building Integrated Photovoltaics (BIPV) business. With the policy background of the PRC government's vigorous advocacy of "hit peak emissions", "carbon neutrality", the construction of "green buildings", "zero energy buildings" and rooftop distributed photovoltaic trial program after "Opinions on Promoting Green Development of Urban and Rural Construction" issued by the State Council of PRC and the "Notice on the Pilot Scheme of Country-wide (City, District) Distributed Rooftop Project" published by the National Energy Administration, given the current huge building volume and a massive amount of potential distributed photovoltaic generation capacity for development in the PRC, it is anticipated that BIPV business would have broad development prospects and become a new development hotspot in the photovoltaic industry.

Relying on the rich technological experience accumulated in the photovoltaic industry, the Group is carrying out a series of research and development projects in cooperation with Shenyang Jianzhu University, the National Housing and Residential Environment Engineering Technology Research Center and other institutions, of which four series of BIPV products have passed China Compulsory Certificate ("CCC") certification, China Quality Certificate Centre ("CQC") certification, and GB8624–2012 building materials and products combustion performance test certification. The Group expects that with the continuous development of BIPV business, the photovoltaic system construction and application business would have further growth.

營運回顧(續)

興建及經營光伏系統業務

在穩固製造業務發展的同時,本集團積極多方開 拓終端光伏電站建設與應用業務,不僅可由下而 上拉動組件產品的銷售,亦可再分享建設及經營 光伏系統業務的利潤,以提高集團整體獲利能力。 本集團光伏系統業務包括傳統的分佈式電站EPC業 務、附著在建築物上的光伏發電系統(BAPV)業務, 以及光伏建築一體化(BIPV)業務。其中光伏建築一 體化(BIPV)業務隨著中國國務院印發「關於推動城 鄉建設綠色發展的意見 | 及國家能源局發佈 [關於 報送整縣(市區)屋頂分佈式光伏開發試點方案的 通知」,中國政府大力倡導「碳達峰」、「碳中和」, 要求建設「綠色建築」、「零能耗建築」及屋頂分佈 式光伏試點計劃的政策背景下,憑藉著中國目前 存有的巨大建築體量及大量潛在分佈式光伏發電 量供發展,預估BIPV業務將擁有廣闊的發展前景, 成為光伏行業新的發展熱點。

本集團憑藉著在光伏行業的深厚的技術積累,與 瀋陽建築大學、國家住宅與居住環境工程技術研 究中心等機構合作開展了多項研發項目,研發的 四款系列BIPV產品均已通過CCC認證、CQC認證, 以及GB8624-2012建築材料及製品燃燒性能測試 認證。本集團預計隨著BIPV業務的不斷發展,光伏 系統建設與應用業務將進一步增長。



管理層討論及分析

Operations Review (Continued)

Semi-conductor business

China has become the fastest growing country in the global semiconductor industry. It is also the world's largest semiconductor application market. The Group is engaged mainly in production and sales of 4–6 inches semiconductor grade monocrystalline silicon ingot with heavy doping (including arsenic, antimony and phosphorus products which are at the leading level of the industry) and 4–6 inches semiconductor grade monocrystalline silicon ingot with lightly doping. The semiconductor business has shown rapid growth since it was officially put into operation in 2019. The Group expects that in the context of the continuous growth of the Chinese semiconductor market, the semiconductor business will continue to maintain strong growth in the next few years, and will contribute profits to the Group.

Operation Strategy

With the rapid advancement of photovoltaic production technology in the past ten years, the production cost per watt of power generation has dropped sharply. Strictly speaking, the current photovoltaic application has reached the target of grid parity, and explosive sales growth is foreseeable in the future. In the premises, production related equipment also needs to be upgraded or added in order to be in line with technological development. Therefore, since 2018, the Group has been investing in upgrading and transforming existing production capacity and invest in low-cost, high-efficiency new production capacity. Mass output by comprehensive upgrade of production capacity and new high- efficiency production capacity have also been realised.

By adopting a dual-core products strategy of continuous development of upstream monocrystalline silicon ingots and wafer product as well as downstream module products, the Group effectively utilises its existing resources. Regarding the production of upstream monocrystalline silicon ingot and wafer products, the Group continued to pursue excellence in its production efficiency due to greater economies of scale. Regarding the downstream photovoltaic modules, since our photovoltaic module customers are mostly domestic state-owned enterprises or large multinational corporations, the market position and strength possessed by these module customers are the strongest in the overall photovoltaic industry chain. Therefore, the Group has established a direct supply relationship with large module customers through significant module production capacity, which maintains a more stable terminal product estuary.

營運回顧(續)

半導體業務

中國已成為全球半導體產業發展最快的國家。它也是全球最大的半導體應用市場。本集團主要從事4-6英吋重掺半導體級單晶硅棒(包括重掺砷、重掺銻、重掺磷這些產品都是處於行業領先水平)和4-6英吋輕掺半導體級單晶硅棒的生產和銷售。半導體業務自二零一九年正式投產以來呈現快速增長。本集團預計,在中國半導體市場持續增長的背景下,未來幾年半導體業務將繼續保持強勁增長,並將為集團貢獻利潤。

營運策略

光伏產品生產技術於近十多年來日進千里下,每 瓦發電的生產成本已急速大幅下降,嚴格來說 目前光伏應用已達到了市電平價的目標,爆 的銷售增長即將到來,故在此情形下,相關 的銷售增長即將到來,故在此情形下,相關 達設備也需配合技術發展而升級改造或新增,故 在集團自二零一八年起,持續投入既有產能 級改造與低本高效新產能的投資,目前已完成 產能全面升級與新增的高效產能大幅產出。



Operations Review (Continued)

Operating Performance

During the period, the total external shipment volume of major products, monocrystalline silicon ingots and wafers, was 2,182.3MW, similar to 2,241.9MW in the same period last year. The external shipment volume of another major product, photovoltaic modules increased from 1,085.9MW in the same period last year to 1,318.1MW during the period, representing a growth rate of 21.4%. For photovoltaic module products in the first half of this year, the external shipment volume of modules increased due to the continued growth in downstream photovoltaic demand.

The Group keeps making profit. It is not only due to the external environment of supply and demand and the release of low-cost and high-efficiency production capacity, but also necessary to maintain leading technology in the ever-advancing photovoltaic industry to build up a cost advantage in order to continuously make profits. The Group has gained success in research and development in recent years, and has overcome various production bottlenecks. The Group has successfully incorporated the most advanced production technologies into mass production, such that the production costs of our various product lines have significantly decreased. For example, in the production of monocrystalline silicon ingots, from 20 years of accumulated technology advantages, we have mastered a number of leading technologies for monocrystalline silicon ingots and silicon wafer production, such as with the upgrade of the thermal system required for the production of monocrystalline silicon ingots, the material feeding volume of monocrystalline furnace has increased by approximately 33% compared with last year which greatly reduced the production cost, the increase of growth rate of monocrystalline silicon ingot by 10% compared with last year through the research and development to design new type of the water-cooling and heat-conducting device, the long-life quartz crucible developed in cooperation with suppliers could be used for up to 500 hours, the RCZ production process which could draw 9 ingots in one pot, the weight of each silicon ingot increased by 18% compared with last year, which greatly enhanced the production capacity, etc. Various advanced production technologies significantly reduced production costs and ensured product quality and stability is in a leading position in the industry. Furthermore, for high quality N-type silicon wafers required for the next-generation N-type cell, the Group has also reached the technical position and accomplished marketisation ahead, and has achieved the development direction of leading N-type crystalline silicon products which could readily meet the market demands for shipment in large quantities at any time.

營運回顧(續)

營運實績

主要產品單晶硅棒與硅片期內總對外付運量為2,182.3兆瓦,與去年同期的2,241.9兆瓦相若。另一主力產品光伏組件期內的對外付運量由去年同期的1,085.9兆瓦提高至期內的1,318.1兆瓦,增長幅度為21.4%。針對光伏組件產品,於今年上半年組件對外付運量增加,由於下游光伏需求的持續增長。

集團營運表現持續獲利,除了受到外部供需環境 與低本高效產能開出的影響外,在日進千里的光 伏產業中亦必須保有技術領先,進而形成成本優 勢,才能持續創造獲利。本集團近年研發有成並 突破各項生產瓶頸,將最先進的生產技術順利運 用於量產之中,各產品線的生產成本已大幅降低。 例如在單晶硅棒生產方面,經過二十年來的技術 迭加優勢,已掌握多項單晶硅棒及硅片製造的領 先技術,如對生產單晶硅棒所需的熱場進行升級, 與去年相比單晶爐投料量提升約33%,大幅降低 生產成本;通過研發設計新款水冷熱屏提高單晶 硅棒生產效率,與去年相比單晶硅棒生長速度提 升10%;與供應商合作研發的長壽命石英坩堝使 用時間長達500小時;可實現一鍋拉製9根單晶硅 棒的RCZ生產工藝;同時與去年相比每根硅棒重量 增加18%,大幅提升產能等。各項先進生產技術 顯著降低了生產成本,並保證產品質量和穩定性 均處於行業領先地位。此外,下一代N型電池所需 要的優質N型硅片,本集團也已提前完成了技術卡 位和市場驗證,實現了引領N型晶硅產品的發展方 向,並隨時可因應市場需求而大批量出貨。



管理層討論及分析

Operations Review (Continued)

Operating Performance (Continued)

For the monocrystalline modules, apart from the mainstream P-type PERC monocrystalline modules, the Group devoted to the development and sales of monocrystalline high-efficiency module products, such as P-type double-sided double glass modules, half-cell photovoltaic modules, multi busbar cell module, and related highend products. In particular, Black Solar ("BS") module products of N-type monocrystalline Interdigitated Back Contact ("IBC") solar cell uses the internationally leading and the first domestic FPC module packaging technology, and is in the leading position in the industry. Having a black surface with beautiful design, the products are uniquely produced as rectangular, square, triangular and other special-shaped modules. It could be connected to each other with perfectly matching roof shape to achieve efficient use of space, representing highest-end product of roof modules. The Flexible Printed Circuit ("FPC") packaging technology of BS modules is still the packaging process with the world's highest precision. It is the benchmark for the monocrystalline N-type IBC cell modules products, leading the monocrystalline N-type cell module industry packaging technology for 2 to 3 years. During the period, certain new multi-busbar BS module products were launched which expanded the product range, provided more choices for overseas customers. and created more benefits for the modules. Besides, the module production line of the Group can also produce multi-busbar half-cell double-sided double glass of 182mm and 210mm large-size modules which the conversion could reach more than 660 watts. In addition, the related equipment automated intelligence and packaging technology are in the leading position in the industry. According to the analysis of the recent bidding in China's photovoltaic market, 182mm and above photovoltaic modules accounted for more than four-fifths of the bidding product specifications. Since the Group's monocrystalline silicon ingot, monocrystalline silicon wafer and photovoltaic module production lines can all produce large-size scarce products such as 182mm and 210mm products which are mainstream products in the market, they could further enhance the Group's ability to increase the shipment volume and provide opportunity for an increase in gross profit margin. Moreover, the Group is also carrying out a number of research projects for TOPCon modules and BIPV products, aiming to upgrade the mass production technology of TOPCon modules and BIPV products, so as to expand the market sales of corresponding products.

營運回顧(續)

營運實績(續)

在單晶組件方面,除了市場主流的P型PERC單晶組 件之外,本集團還致力於單晶高效組件產品的開 發與銷售,如P型雙面雙玻組件、半片電池組件、 多主柵電池組件等高端產品,特別針對N型單晶交 指式背電極IBC電池的BS組件產品,是運用國際領 先且國內首家採用的撓性印製電路FPC組件封裝技 術,居於行業領先地位,其表面全黑、設計美觀, 並獨創生產矩形組件、方形、三角組件等異型組 件,可透過相互拼接以完美匹配屋頂形狀來實現 空間高效利用,代表屋頂組件最高端產品。BS組 件的FPC封裝技術目前仍然是國際最高精度的封裝 工藝,是單晶N型IBC電池組件產業化的標桿,領跑 單晶N型電池組件行業封裝技術2至3年。期內,新 推出多主柵BS組件,增加了產品序列,為海外客 戶提供了更多選擇,為組件創造出更多效益。其 次,本集團的組件產線亦可生產多主柵半片雙面 雙玻182mm和210mm大尺寸組件,其組件功率可 達660瓦以上,且相關設備自動化智慧化與封裝技 術皆位於行業領先。根據中國光伏市場近期招標 的信息分析,182mm及其以上規格之光伏組件約 佔招標產品規格的4/5以上,由於本集團單晶硅棒 與單晶硅片與光伏組件生產線皆均可以生產 182mm和210mm等大尺寸產品,此等大尺寸硅片 和大尺寸組件均為現行市場上的主流產品,故可 更進一步提高本集團銷售端的出貨能力,創造毛 利率提高的契機。此外,本集團還針對TOPCon組 件和BIPV產品開展了多項研究項目,旨在升級 TOPCon組件及BIPV產品的批量生產技術,從而擴 大對應產品的市場銷量。



管理層討論及分析

Operations Review (Continued)

Operating Performance (Continued)

Looking ahead, given (a) leading technological cost advantages and large-size product lines with higher bargaining power, the Group will be able to continue to gain the market share; (b) the major production base with a lower electricity costs and more favorable production environment with policy support, the Group will be able to significantly reduce the production cost; (c) the Group continues to expand low-cost, high-efficiency new production capacity through more refined production process, and the existing production capacity has also been upgraded and transformed, and achieved stable operation, which can further demonstrate the advantages of economies of scale, such as lower procurement, logistics and production costs; (d) the long-standing diversified and accumulated technological advantages of various product lines; and (e) the strong client base in PRC and overseas, with increasing demand from new and old customers, it is expected that the Group's external shipment volume and revenue will continue to grow, and the production costs will decrease. Total gross profit and gross profit margin performance will be further improved in the long run.

Financial Review

Revenue

The revenue of the Group increased by 11.6% from approximately RMB2,820.6 million for the first half of 2021 to approximately RMB3,147.0 million for the period. The growth in external shipment volume for the period is 5.2% compared to the same period last year. The growth in revenue was mainly attributed to the increase in external shipment volume and average selling price of photovoltaic modules.

Cost of sales

Cost of sales for the period has increased from approximately RMB2,449.1 million in the first half of last year to approximately RMB2,879.9 million for the period. The increase was mainly due to growth in revenue.

Gross profit and gross profit margin

The Group recorded a gross profit of approximately RMB267.1 million and a gross profit margin of 8.5% in the first half of 2022, as compared to a gross profit of approximately RMB371.5 million and a gross profit margin of 13.2% in the corresponding period in 2021, which decreased by 28.1% and 4.7% points respectively. The drop in gross profit margin was mainly due to the increase in cost of raw materials — polysilicon and increase in sales of one of the Group's major products, photovoltaic modules, with lower gross profit margin than other products.

營運回顧(續)

營運實績(續)

展望未來,本集團憑藉著(a)領先的技術成本優勢 與議價能力更高的大尺寸新產品線,將可不斷搶 佔市場;(b)主要生產基地具有較低的電費成本 政策支持及更有利的生產環境配套,可使得生產 成本降低;(c)本集團通過更精細的生產工藝,持 續擴充低本高效新產能,加上既有產能亦且規模 濟的優勢,例如降低採購、物流和生產成本;(d)長 期以來各產品線多元化的技術迭加優勢;加上(e) 國內外堅實的客戶基礎,與新舊客戶的需求增加, 故預期本集團對外付運量以及營業收入應可持額 維持增長,生產成本降幅,從長遠來看,毛利總額 和毛利率表現將更能提升。

財務回顧

收益

本集團於期內收益錄得人民幣約3,147.0百萬元,較二零二一年同期的人民幣約2,820.6百萬元增加約11.6%,而總對外付運量較去年同期增加5.2%。期內集團整體收益增長主要皆來自於光伏組件的對外付運量及平均銷售單價的增加。

銷售成本

本集團於二零二二年上半年,銷售成本由去年上半年的人民幣約2,449.1百萬元增加至人民幣約2,879.9百萬元,銷售成本增加主要由於整體收益增加。

毛利及毛利率

本集團於二零二二年上半年錄得人民幣約267.1百萬元的毛利,毛利率為8.5%,對比二零二一年同期的毛利人民幣約371.5百萬元及毛利率13.2%,分別下降28.1%及4.7個百分點。毛利率下降的主要原因由於原材料多晶硅的成本上升及期內主力產品光伏組件銷售收入上升,而光伏組件的毛利率比其他產品較低導致整體毛利率下降。



管理層討論及分析

Financial Review (Continued)

Selling and distribution expenses

Selling and distribution expenses mainly comprised terminal handling charges, packaging expenses and other incidental expenses. Although there was an increase in external shipment volume, the selling and distribution expenses decreased from approximately RMB63.8 million in the first half of 2021 to approximately RMB1.6 million for the period. The decrease was mainly due to reversal of provision for warranty.

Administrative expenses

Administrative expenses mainly comprised of staff costs, research and development expenses and daily office expenses. The administrative expenses for the period amounted to approximately RMB130.4 million, as compared to approximately RMB135.7 million from the corresponding period of 2021. The decrease was mainly due to effective planning and control on other administrative expenses by the Group.

Finance costs

Finance costs represented mainly bank and other loan interests. The Group's finance costs increased from approximately RMB60.8 million in the first half of 2021 to approximately RMB67.2 million for the period, represented an increase of 10.6% due to increase in interest-bearing bank and other borrowings for the investments in acquiring equipment for high-efficient production capacity and purchasing raw materials for the expanded production capacity. The Group aims to lower the finance costs gradually in the future and to obtain more sources of financing.

Income tax

Income tax expense amounted to approximately RMB16.9 million in the first half of 2022, as compared to approximately RMB44.6 million in the first half of 2021. The income tax expense for the period was mainly derived from the provision of income tax for the profitable subsidiaries of the Group. The decrease in income tax expenses was mainly because the profits before tax in 2022 included more non-taxable items and adjustment of over-provision in prior years.

Profit attributable to owners of the parent

The increase in profit attributable to owners of the parent of approximately RMB67.7 million was shown in 2022, as compared to the profit attributable to owners of the parent of approximately RMB61.3 million in 2021 mainly due to increase in revenue and reversal of provision for warranty.

財務回顧(續)

銷售及分銷開支

銷售及分銷開支主要包括港口處理費、包裝開支及其他相關開支。雖然本期對外付運量較去年同期增加,但銷售及分銷開支卻由二零二一年上半年的人民幣約63.8百萬元,減低至二零二二年上半年的人民幣約1.6百萬元,主要原因為保用成本的撥備回沖。

行政開支

行政開支主要包括員工成本、研發開支及日常辦公費用。由二零二一年上半年人民幣約135.7百萬元,下降至二零二二年上半年的人民幣約130.4百萬元,下降的主要原因是公司對其他行政費用更有效地規劃和控制所致。

融資成本

融資成本主要為銀行及其他貸款的利息。本集團的融資成本由二零二一年上半年的人民幣約60.8 百萬元增加至二零二二年上半年的人民幣約67.2 百萬元,增加10.6%。融資成本增加主要由於銀行及其他計息借貸增加,用於持續投入高效產能的購置,並增加採購原輔材料的數量以供新增產能生產使用。本集團旨在未來逐步降低融資成本,且取得更多樣化的融資管道。

所得税

二零二二年上半年的所得税支出為人民幣約16.9 百萬元,而二零二一年上半年的所得税支出為人 民幣約44.6百萬元。二零二二年上半年的所得税支 出乃主要為本集團盈利子公司計提所得税所致, 其下降主要是由於本期間除税前利潤內包括更多 非應税項目收益,及沖回以前年度多計提的所得 税支出。

歸屬於母公司股東的利潤

期內歸屬於母公司股東的淨利潤達人民幣約67.7 百萬元,較去年同期淨利潤人民幣約61.3百萬元增加。利潤增加主要由於收益增加及保用成本的撥備回沖。



管理層討論及分析

Financial Review (Continued)

Inventory turnover days

The Group has been focusing its efforts in raising the inventory turnover and lowering the inventory turnover days in order to mitigate the risk of rapid decline inventory prices caused by continuous technological advancement of photovoltaic products, and at the same time, reducing the backlog of funds and further strengthen the Group's operation working capital. In order to avoid the impact of price fluctuations of raw and auxiliary materials, the Group therefore increased the safety stock level of inventories. In addition, an increase amount of raw materials were purchased to cope with the utilisation of new high-efficient production capacity. Therefore, the inventory turnover days of the period increased to 38 days (31 December 2021 : 26 days).

Trade receivables turnover days

The sales of photovoltaic modules accounted for about 72% of the Group's overall sales for the period. According to the standard terms of the industry's module sales contracts, the recovery of module receivables depends on the construction progress of the photovoltaic power plant. For instance, some trade receivables can only be recovered after the customer's photovoltaic power plant is connected to the grid. Therefore, the trade receivables turnover days of module business are generally longer. Furthermore, the sales amount of photovoltaic modules accounted for a relatively high proportion of the total sales amount of that for the six months ended 30 June 2022, and most of those trade receivables were yet to be due; as a result, higher trade receivables turnover days was noted. Trade receivables turnover days for the period has increased to 110 days (31 December 2021 : 98 days), but is still at a reasonable level.

Trade payables turnover days

The trade payables turnover day was 145 days for the period, which was significantly higher comparing to 123 days as at 31 December 2021. The main reason was that the Group has completed a comprehensive upgrade on production capacity and addition of high-efficiency production capacity during the period, and hence an increased amount in raw materials were purchased for use in the expanded production capacity. As a result, the ratio of trade payables to cost of sales at the end of the period increased. In addition, the Group has formed strategic partnerships with our major suppliers. Under stable and frequent co-operations, the suppliers have gradually increased our credit lines and payment terms.

財務回顧(續)

存貨週轉日

本集團在存貨的儲備策略上,原是提高存貨週轉率而降低存貨集團週轉天期,以避免在光伏產品因技術提升而造成售價不斷下滑的市場趨勢時功進而造成相關存貨價格快速下跌的風險,同時必避免受到原輔材料價格波動帶來的影響,本為團提高存貨的安全庫存水平。另期內新增的高新產能陸續大幅產出,繼以增加原材料準備用於新產能的生產之用。故期內存貨週轉日提高至38日(二零二一年十二月三十一日:26日)。

應收貿易賬款週轉日

由於本期來自光伏組件產品之銷售額佔集團整體銷售額約近72%,而根據行業一般組件銷售售合條款,組件應收賬款的回收需取決於電站建設的進度,例如:部分應收賬款需於客戶的電站建設網後始能收回,故組件業務之應收賬款天期當站過輕長。二零二二年上半年光伏組件銷售金額佔協大期總銷售金額的比例較高,而該應收賬款多尚尚本東期,進而亦造成應收賬款週轉日提高。期內本集團應收貿易賬款週轉日雖提高至110日(二零二一年十二月三十一日:98日),但仍維持合理水平。

應付貿易賬款週轉日

本期應付貿易賬款週轉日為145日,較二零二一年的123日大幅提高,主要是本集團於期內完成了產能全面升級與新增的高效產能陸續大幅產出,繼以增加原材料的準備,以便用於已擴建的產能,故造成期末的應付貿易賬款與銷售成本比例提高。另外,本集團與主要供應商已形成策略夥伴關係,在穩定與頻繁的合作下,供應商亦逐漸提高對本集團的授信額度與賬期。



管理層討論及分析

Financial Review (Continued)

Liquidity and financial resources

The principal sources of working capital of the Group during the period were cash from bank and other borrowings. As at 30 June 2022, the current ratio (current assets divided by current liabilities) of the Group was 0.93 (31 December 2021: 0.84). The Group had net borrowings of approximately RMB776.7 million as at 30 June 2022 (31 December 2021: RMB941.8 million), including cash at bank and on hand of RMB500.9 million (31 December 2021: RMB431.9 million), pledged deposits of RMB1,090.6 million (31 December 2021: RMB751.3 million), bank and other loans due within one year of RMB1.991.1 million (31 December 2021: RMB1.915.3 million) and non-current bank and other loans of RMB377.1 million (31 December 2021: RMB209.7 million). The net debt to equity ratio (net debt divided by total equity) was 98.5% (31 December 2021 : 140.1%). The gearing ratio (ratio of total borrowings, less cash and cash equivalents, to the total of share capital and reserves) was 499.0% (31 December 2021: 449.8%).

Earnings before interest, taxes, depreciation and amortisation

During the period, the Group's earnings before interest, taxes, depreciation and amortisation ("EBITDA") was approximately RMB373.1 million (11.9% of the revenue) (corresponding period of 2021: approximately RMB364.0 million, 12.9% of the revenue). The main reason for the increase in EBITDA was attributed to the increase in revenue and reversal of provision for warranty during the period.

Net cash inflow from operating activities

The Group continued to invest and upgrade the existing production capacity which, together with the economies of scale reflected in high-efficiency production capacity, resulted in an increase in operating profit. The net cash inflow from operating activities increased from approximately RMB306.9 million in the first half of 2021 to approximately RMB311.3 million for the period, representing a growth rate of 1.4%.

財務回顧(續)

流動資金及財務資源

本集團於年內主要營運資金來源為銀行及其他借 貸所得款項。於二零二二年六月三十日,本集團 的流動比率(流動資產除流動負債)為0.93(二零 二一年十二月三十一日:0.84)。本集團於二零 二二年六月三十日有借貸淨額人民幣約776.7百萬 元(二零二一年十二月三十一日:人民幣941.8百萬 元),其中包括銀行及手頭現金人民幣500.9百萬元 (二零二一年十二月三十一日:人民幣431.9百萬 元)、已抵押存款人民幣1,090.6百萬元(二零二一 年十二月三十一日:人民幣751.3百萬元)、一年內 到期銀行及其他貸款人民幣1,991.1百萬元(二零 二一年十二月三十一日:人民幣1,915.3百萬元)以 及非流動銀行及其他貸款人民幣377.1百萬元(二 零二一年十二月三十一日:人民幣209.7百萬元)。 淨借貸權益比率(借貸淨額除權益總額)為98.5% (二零二一年十二月三十一日:140.1%)。資本與 負債的比率(借貸總額,減現金及現金等價物,相 對總股本及儲備的比率)為499.0%(二零二一年 十二月三十一日:449.8%)。

未計利息、税項、折舊及攤銷前盈利

期內,本集團錄得未計利息、稅項、折舊及攤銷前盈利(「稅息折舊及攤銷前利潤」)為人民幣約373.1百萬元(收益之11.9%)(二零二一年同期:人民幣約364.0百萬元(收益之12.9%))。稅息折舊及攤銷前利潤增加的主要原因是本集團期內的收益增加及保用成本的撥備回沖。

經營活動所得現金淨流入額

本集團期內持續將既有產能升級改造與高效產能 彰顯之經濟規模致使經營利潤提升,經營活動所 得現金淨流入額由二零二一年上半年的人民幣約 306.9百萬元上升至二零二二年上半年的人民幣約 311.3百萬元,成長幅度為1.4%。



管理層討論及分析

Financial Review (Continued)

Material acquisitions and disposals of subsidiaries, associates and joint ventures

In February 2022, Solargiga Energy (Hong Kong) Company Limited ("Solargiga Hong Kong") entered into Equity Transfer Agreement with Qujing Yangguang New Energy Co., Ltd ("Qujing Yangguang") (an indirect non-wholly owned subsidiary of the Company), pursuant to which Solargiga Hong Kong agreed to sell and Qujing Yangguang agreed to acquire the entire equity interest in Jinzhou Youhua Silicon Materials Co. Ltd ("Youhua Silicon") at consideration of approximately RMB227,369,000. Upon completion, the Group's equity interest in Youhua Silicon reduced from 100% to 53.7%. For the details of the disposal, please refer to the announcements of the Company dated 25 February 2022 and 1 March 2022.

Save as disclosed above and in this report, the Group did not have any material acquisitions and disposals of subsidiaries, associates and joint ventures during the six months ended 30 June 2022.

Foreign currency risk

The Group is exposed to foreign currency risk primarily through sales and purchases, cash, bank deposits and bank loans that are denominated in a currency other than the functional currency, Renminbi, of the operations to which they relate. The currencies giving rise to this risk are primarily the US Dollar and Euro. The Directors do not expect any significant impact from the change in exchange rates since the Group uses trade receivables in foreign currencies received from foreign customers to settle foreign loans and trade payables in foreign currencies which naturally mitigates the exchange rate risk. In addition, the Group will consider the difference in interest rates and fluctuations in the exchange rates of foreign currency denominated and local currency-denominated loan balance, and seize opportunities to mitigate the risk through low-risk forward exchange agreements, in order to strike a balance between the exposure to the variations in interest costs and fluctuations in foreign exchange rates.

Convertible Bonds

On 14 April 2022, Qujing Yangguang New Energy Co., Ltd. ("Qujing Yangguang", an indirect non-wholly owned subsidiary of the Company), an investor, Mr. Tan Wenhua and Mr. Tan Xin entered into the subscription agreement, pursuant to which Qujing Yangguang issued the convertible bonds at a principal amount of RMB250,000,000 to the investor. For further details on the subscription agreement and the convertible bonds, please refer to the announcement of the Company dated 14 April 2022.

財務回顧(續)

重大收購及出售附屬公司、聯營公司及合營企業

於二零二二年二月,陽光能源(香港)有限公司(「香港陽光」)與本公司之間接非全資附屬公司,曲靖陽光新能源股份有限公司(「曲靖陽光」)訂立股權轉讓協議,據此,香港陽光同意出售及轉讓,而曲靖陽光同意收購錦州佑華硅材料有限公司(「佑華硅」)的全部股權,代價約為人民幣227,369,000元。完成後,本集團於佑華硅的股權由100%減至53.7%。出售事項詳見本公司日期為二零二二年二月二十五日及二零二二年三月一日的公告。

除上文及本報告所披露者外,於截至二零二二年 六月三十日止的六個月內,本集團並無任何重大 收購及出售附屬公司、聯營公司及合營企業。

外幣風險

本集團所承受的外匯風險主要來自以相關業務的功能貨幣人民幣以外貨幣進行的買賣交易與 金、銀行存款及銀行貸款,當中主要來自為美人 歐元。由於本集團可將自國外客戶所收取的 應收賬款,用以清償外幣借款和外幣應付 應收賬款,用以清償外幣借款和外幣應付 形成匯率的自然避險,故董事預期匯率變動 形成匯本影響。此外,本集團亦會考慮外幣配 構成重大影響。此外,本集團亦會考慮外幣配 幣借款利息成本差異性及匯率變化,接機配配本 險較低的遠期外匯合約交易來避險,在利息成本 高低和匯率變化風險中取得平衡。

可換股債券

於二零二二年四月十四日,曲靖陽光新能源股份有限公司(「曲靖陽光」,本集團間接非全資附屬公司)、一位投資者、譚文華先生及譚鑫先生訂立認購協議,據此,曲靖陽光向該位投資者發行本金額人民幣250,000,000元的可換股債。有關認購協議及可換股債的更多詳情,請參閱本公司日期為二零二二年四月十四日的公告。



管理層討論及分析

Human resources

As at 30 June 2022, the Group had 4,191 employees (31 December 2021: 3,937 employees).

Future prospects and strategies

Photovoltaic power generation is popular in recent years, so it is expected that the global newly installed capacity of photovoltaic power generation will continue to grow rapidly in 2022. Coupled with a series of government promulgated policies to support the development of the photovoltaic industry with an aim to lead the energy industry transition from traditional energy sources to renewable energy sources in an orderly manner, it is expected that PRC and the global mid and long-term demand for photovoltaic products will continue to experience robust growth. Following the grid parity, photovoltaic products will be able to move further towards full-scale marketised competition in the photovoltaic industry and away from policy subsidies, and will progress towards self sustainable development, advance technological progress, reduce cost of power generation to promote the achievement in comprehensive grid parity and will draw explosive growth in demand.

In order to grasp these historic opportunities and respond to the rapid increase in demand, the Group has been expanding production capacity of monocrystalline silicon ingot, wafer and modules to take advantage of the external production environment in different areas, enabling the Group to fully utilise its current technological advantages in production. It is estimated that the production capacity of monocrystalline silicon ingot will be expanded from 6.2GW by the end of June 2022 to 7.4GW by the end of 2022. The production capacity of monocrystalline silicon wafer will be expanded from 4.5GW by the end of June 2022 to 7.4GW by the end of 2022. The production capacity of modules will be expanded from 7.2GW by the end of June 2022 to 8.2GW by the end of 2022.

As a renewable and clean energy source, in respect of photovoltaic power generation, the road to grid parity may be a painful change, but the expected explosive growth in the market after reaching grid parity will provide an opportunity for the industry. Positing itself as a leading supplier of monocrystalline silicon ingots/wafers and photovoltaic modules, the Group is fully prepared by relying on its existing advantages and will do its utmost, to embrace the long-term promising prospect for the photovoltaic industry, help achieve the goal of "carbon neutrality" in 2060 in China and contribute to the sustainable development of the global environment.

人力資源

於二零二二年六月三十日,本集團的僱員數目為4,191名(二零二一年十二月三十一日:3,937名)。

未來展望及策略

光伏發電近年愈見流行,因此預期二零二二年全球光伏發電新增裝機量仍將持續快速成長,加上 為了引導能源產業有序從傳統能源邁入到發能源產業有序從傳統能源邁入到發於 能源,各國政府頒布一系列支持光伏產業產 能源,各國政府頒布一系列支持光伏產業產 能源、在下,預計中國及全球中長期光伏產業產品可 政向上的勢頭持續強勁。緊隨平價上網,以擺開 進一步邁向光伏行業全面市場化競爭,以擺開 策補貼,邁向自我穩定發展,推進技術進步, 發電成本,以推動行業加速達至全面的 目標,並帶來爆發式的需求成長。

為了把握此歷史機遇及因應急速向上的需求,本 集團持續擴充單晶硅棒與單晶硅片及組件產能, 以期進一步充分利用不同地區所擁有較佳的外勢 生產環境,使得集團現已具有的生產技術優勢更 能充分發揮,預估單晶硅棒產能將由二零二二年 方月底的6.2吉瓦擴充至二零二二年午底的7.4吉 瓦,單晶硅片產能將由二零二二年六月底的4.5吉 瓦擴充至二零二二年年底前的7.4吉瓦,組件產能 將由二零二二年六月底的7.2吉瓦擴充至二零二二年年底前的8.2吉瓦。

作為可再生和潔淨能源的光伏發電,平價上網前的道路是痛苦蜕變,但平價上網後市場需求必定會出現爆發性的巨幅成長,這正是光伏行業新生的契機。定位為領先的單晶硅棒/硅片和光伏組件供應商及依托現有優勢,本集團已經做好準備,將全力以赴,迎接行業長期前景廣闊的美好時代,助力中國在2060年實現「碳中和」目標,為地球環境的永續發展貢獻一己之力。



管理層討論及分析

Dividend

The Directors do not recommend the payment of an interim dividend for six months ended 30 June 2022 (for six months ended 30 June 2021: Nil).

Event After Reporting Period

On 29 April 2022, Qujing Yangguang (a subsidiary of the Company) and Guotai Junan Securities Co., Ltd. (國泰君安証券股份有限公司) ("Guotai Junan") entered into a service agreement (the "Service Agreement"), pursuant to which Guotai Junan has agreed to place, on a best-effort basis, up to 27,138,643 Qujing Shares to investors and the amount of proceeds to be raised would be no more than RMB460,000,000 (the "Capital Injection"). The Service Agreement, the Capital Injection and the transactions contemplated thereunder are subject to approval by the shareholders of the Company, which was obtained at an extraordinary general meeting of the Company held on 17 August 2022. Completion of the Capital Injection is subject to the fulfilment of the relevant conditions precedent. For further details on the Service Agreement and the Capital Injection, please refer to (i) the announcement and the circular of the Company dated 29 April 2022 and 29 July 2022, respectively; and (ii) the poll results announcement of the Company dated 17 August 2022.

股息

董事不建議就二零二二年六月三十日止六個月派 發中期股息(截止二零二一年六月三十日止六個 月:無)。

報告期後事項

於二零二二年四月二十九日,曲靖陽光(本公司之附屬公司)與國泰君安証券股份有限公司(「國泰君安証券股份有限公司(「國泰君安」)訂立服務協議(「服務協議」),據此,國泰君安投資者,經增資(「增資」)將募集的所得款項資者,經增資(「增資」)將募集的所得款資資本經濟資子會多於人民幣460,000,000元。服務協議、增資並會多於人民幣460,000,000元。服務協議、增資並會其一個大學工作,是可以與東特別大學人民學人。有關服務協議及增資的更多十九日的過過,一個公司,與大學人。



Disclosure of Interests

權益披露

Interest and Short Positions of the Directors and the Chief Executives of the Company in the Shares, Underlying Shares and Debentures of the Company and its Associated Corporations

As at 30 June 2022, so far as the Directors are aware, the Directors and the chief executives of the Company and their associates had the following interests in the shares, underlying shares and debentures of the Company and its associated corporations (within the meaning of Part XV of the Securities and Futures Ordinance ("SFO")), as recorded in the register required to be kept under Section 352 of the SFO or as otherwise notified to the Company and the Stock Exchange pursuant to the Model Code:

董事及本公司最高行政人員於本公司及其相聯法團的股份、相關股份及債券的權益及淡倉

於二零二二年六月三十日,據董事所悉,董事及本公司最高行政人員及彼等之聯繫人士於本公司及其相聯法團(定義見證券及期貨條例(「證券及期貨條例」)第XV部)的股份、相關股份及債券中,擁有已記錄於根據證券及期貨條例第352條規定存置的登記冊或根據標準守則須另行知會本公司及聯交所的權益如下:

Name of Director 董事姓名	Nature of interest 權益性質	Number of ordinary shares held (Note 1) 所持普通股數目 (附註1)	Approximate percentage of shareholding (%) 概約持股百分比(%)
Mr. TAN Wenhua 譚文華先生	Beneficial interest (Note 2) 實益權益(附註2)	556,924,443 (L)	16.76%
	Interest of a controlled corporation (Note 2) 受控法團權益(附註2)	155,320,308 (L)	4.67%
Mr. TAN Xin 譚鑫先生	Beneficial interest 實益權益	41,762,000 (L)	1.26%
Mr. HSU You Yuan 許祐淵先生	Beneficial interest 實益權益	15,591,016 (L)	0.47%
Mr. WANG Junze 王鈞澤先生	Beneficial interest 實益權益	100,500 (L)	Less than 0.01% 少於0.01%

Notes:

- 1. The letter "L" denotes the person's long position in such securities.
- 2. As at 30 June 2022, Mr. Tan Wenhua is interested in an aggregate of 712,244,751 share of the Company, of which (i) 556,924,443 share of the Company are directly held by Mr. Tan Wenhua; and (ii) 155,320,308 share of the Company are held by You Hua Investment Corporation, which is wholly-owned by Mr. Tan Wenhua.

附註:

- 1. 字母「L」指該人士於該等證券的好倉。
- 2. 於二零二二年六月三十日,譚文華先生合共於712,244,751股本公司股份中擁有權益,當中(i)556,924,443股本公司股份由譚文華先生直接持有,及(ii)155,320,308股本公司股份由譚文華先生全資擁有之佑華投資有限公司持有。



Disclosure of Interests

權益披露

Substantial Shareholders' and Other Persons' Interests and Short Positions' in Shares and Underlying Shares

As at 30 June 2022, so far as the Directors are aware, save as disclosed above, the substantial shareholders and other persons or corporations (not being a Director or chief executive of the Company) who had interest or short positions in the shares and underlying shares of the Company as recorded in the register required to be kept under section 336 of the SFO or had otherwise notified to the Company were as follows:

主要股東及其他人士於股份及相關股份的權益及淡倉

截至二零二二年六月三十日,據董事所知悉,除 上文披露者外,以下主要股東及其他人士或法團 (並非董事或本公司最高行政人員)於本公司股份 及相關股份中,擁有已記錄於根據證券及期貨條 例第336條規定存置的登記冊或已另行知會本公司 的權益或淡倉:

Name 名稱/姓名	Capacity 身分	Number of ordinary shares held (Note 1) 所持普通股數目 (附註1)	Approximate Percentage of shareholding (%) 概約持股 百分比(%)
Hiramatsu International Corp.	Beneficial owner 實益擁有人	304,261,692 (L)	9.15%
Hanako Hiramatsu (Note 2) Hanako Hiramatsu (附註2)	Beneficial interest 實益權益	304,261,692 (L)	9.15%
Madam Sze Tan Hung 施丹紅女士	Beneficial interest 實益權益	237,295,000 (L)	7.14%
Mr. Tung Ching Sai (Note 3) 董清世先生(附註3)	Interest of spouse 配偶權益	237,295,000 (L)	7.14%

Notes:

- 1. The letter "L" denotes the person's long position in such securities.
- To the best of the Directors' knowledge, information and belief having made all reasonable enquiry, Hiramatsu International Corp. is whollyowned by Hanako Hiramatsu as at the date of this report. By virtue of the SFO, Hanako Hiramatsu is deemed to be interested in the Shares held by Hiramatsu International Corp.
- Mr. Tung Ching Sai is the spouse of Madam Sze Tan Hung and is therefore deemed to be interested in all the shares which Madam Sze Tan Hung is interested in for the purpose of the SFO.

Save as disclosed above, as at 30 June 2022, the Directors are not aware of any other person or corporation having an interest or short position in shares and underlying shares of the Company which fall to be disclosed under the provisions of Division 2 and 3 of Part XV of the SFO.

附註:

- 1. 字母「L」指該人士於該等證券的好倉。
- 2. 據董事於作出一切合理查詢後所深知、全悉及確信,於本報告日期,Hiramatsu International Corp.由 Hanako Hiramatsu全資擁有。根據證券及期貨條例, Hanako Hiramatsu被視為於Hiramatsu International Corp.持有的股份中擁有權益。
- 3. 董清世先生為施丹紅女士的配偶,因此根據證券及 期貨條例,彼被視為於施丹紅女士所持股份中擁有 權益。

除上文披露者外,截至二零二二年六月三十日,董事並不知悉有任何其他人士或法團於本公司的股份及相關股份中擁有根據證券及期貨條例第XV部第2及3分部的條文須予披露的權益或淡倉。



Corporate Governance and Other Information

企業管治及其他資料

Corporate Governance

The Company has complied with the requirements set out in the Corporate Governance Code as set out in Appendix 14 to the Listing Rules throughout the six months ended 30 June 2022.

Model Code for Securities Transactions by Directors

The Company has adopted the Model Code for Securities Transactions by Directors of Listed Issuers (the "Model Code") as set out in Appendix 10 to the Listing Rules as the code of conduct regarding securities transactions by the Directors. Specific enquiries have been made by the Company to confirm that all Directors have complied with the Model Code for the six months ended 30 June 2022.

Purchase, Sale and Redemption of the Company's Listed Securities

Neither the Company, nor any of its subsidiaries purchased, redeemed or sold any of the Company's listed securities during the six months ended 30 June 2022 and up to the reporting date.

Audit Committee

The Audit Committee of the Company, comprising three independent non-executive Directors, has reviewed the accounting principles and practices adopted by the Group and such matters as internal controls and financial reporting with the management of the Company, including the review of the unaudited interim results and the unaudited interim condensed consolidated financial statements for the six months ended 30 June 2022.

By Order of the Board

Solargiga Energy Holdings Limited Tan Wenhua

Chairman

Hong Kong, 26 August 2022

企業管治

本公司於截至二零二二年六月三十日止六個月一 直遵守上市規則附錄十四所載企業管治守則的規 定。

董事進行證券交易的標準守則

本公司已採納上市規則附錄十所載上市發行人董事進行證券交易的標準守則(「標準守則」)作為董事進行證券交易的操守守則。本公司已作出特定查詢,以確認全體董事已於截至二零二二年六月三十日止六個月遵守標準守則。

購買、出售及贖回本公司的上市 證券

截至二零二二年六月三十日止六個月及截至本報告日期,本公司或其任何附屬公司概無購買、贖回或出售本公司任何上市證券。

審核委員會

本公司審核委員會(成員包括三名獨立非執行董事)已審閱本集團採納的會計原則及慣例,並已與本公司管理層檢討內部監控及財務報告等事宜,包括審閱截至二零二二年六月三十日止六個月的未經審核中期業績及未經審核中期簡明綜合財務報表。

承董事會命

陽光能源控股有限公司 主席 譚文華

香港,二零二二年八月二十六日



Independent Review Report

獨立審閱報告



Ernst & Young 27/F, One Taikoo Place 979 King's Road Quarry Bay, Hong Kong 安永會計師事務所 香港鰂魚涌 英皇道979號 太古坊一座27樓

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Independent review report

To the board of directors of Solargiga Energy Holdings Limited (Incorporated in the Cayman Islands with limited liability)

Introduction

We have reviewed the interim financial information set out on pages 31 to 72, which comprises the condensed consolidated statement of financial position of Solargiga Energy Holdings Limited (the "Company") and its subsidiaries (the "Group") as at 30 June 2022 and the related condensed consolidated statements of profit or loss. comprehensive income, changes in equity and cash flows for the six-month period then ended, and explanatory notes. The Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited require the preparation of a report on interim financial information to be in compliance with the relevant provisions thereof and Hong Kong Accounting Standard 34 Interim Financial Reporting ("HKAS 34") issued by the Hong Kong Institute of Certified Public Accountants ("HKICPA"). The directors of the Company are responsible for the preparation and presentation of this interim financial information in accordance with HKAS 34. Our responsibility is to express a conclusion on this interim financial information based on our review. Our report is made solely to you, as a body, in accordance with our agreed terms of engagement, and for no other purpose. We do not assume responsibility towards or accept liability to any other person for the contents of this report.

Scope of review

We conducted our review in accordance with Hong Kong Standard on Review Engagements 2410 Review of Interim Financial Information Performed by the Independent Auditor of the Entity issued by the HKICPA. A review of interim financial information consists of making inquiries, primarily of persons responsible for financial and accounting matters, and applying analytical and other review procedures. A review is substantially less in scope than an audit conducted in accordance with Hong Kong Standards on Auditing and consequently does not enable us to obtain assurance that we would become aware of all significant matters that might be identified in an audit. Accordingly, we do not express an audit opinion.

獨立審閱報告 致陽光能源控股有限公司董事會

(於開曼群島註冊成立之有限公司)

引言

我們已審閱列載於第31至72頁的陽光能源控股有 限公司(「貴公司」)及其附屬公司(統稱「貴集團」) 的中期財務資料,當中包括於二零二二年六月三十 日的簡明綜合財務狀況表、截至該日止六個月期 間的有關簡明綜合損益表、全面收入表、權益變 動表及現金流量表以及附註解釋。香港聯合交易 所有限公司證券上市規則規定必須遵照上市規則 中的相關規定及香港會計師公會(「香港會計師公 會」)頒佈的香港會計準則第34號中期財務報告 (「香港會計準則第34號」)的規定編製中期財務資 料報告。 貴公司董事須負責根據香港會計準則 第34號編製及列報該等中期簡明綜合財務報表。 我們的責任是根據我們的審閱對該等中期簡明綜 合財務報表作出結論。根據雙方協定的應聘條款, 我們的報告僅向 閣下全體作出報告。除此以外, 我們的報告不可用作其他用途。我們概不就本報 告的內容,對任何其他人士負責或承擔法律責任。

審閱範圍

我們已根據香港會計師公會頒佈的香港審閱委聘 準則第2410號實體的獨立核數師對中期財務信息 的審閱進行審閱。中期財務資料審閱工作包括主 要向負責財務及會計事項的人員詢問,並作包出分析和其他審閱程序。由於審閱的範圍遠較按照係香港審計準則進行審核的範圍為小,所以不能保 我們會注意到在審核中可能會被發現的所有重大 事項。因此,我們不會發表任何審核意見。

Independent Review Report

獨立審閱報告

Conclusion

Based on our review, nothing has come to our attention that causes us to believe that the interim financial information is not prepared, in all material respects, in accordance with HKAS 34.

Ernst & Young

Certified Public Accountants Hong Kong

26 August 2022

根據我們的審閱工作,我們並沒有注意到任何事 項,使我們相信中期財務資料沒有在所有重大方 面按照香港會計準則第34號編製。

安永會計師事務所

執業會計師 香港

二零二二年八月二十六日

Interim Condensed Consolidated Statement of Profit or Loss 中期簡明綜合損益表

For the six months ended 30 June 2022 截至二零二二年六月三十日止六個月 (Expressed in Renminbi) (以人民幣列值)

			Six months end 截至六月三十日		
		Notes 附註	2022 二零二二年 RMB'000 人民幣千元 (Unaudited) (未經審核)	202 二零二一年 RMB'00 人民幣千元 (Unaudited (未經審核	
Revenue Cost of sales	收益 銷售成本	4	3,146,960 (2,879,888)	2,820,62 (2,449,10	
Gross profit Other income and gains, net Selling and distribution expenses Administrative expenses	毛利 其他收入及收益·淨額 銷售及分銷開支 行政開支	5	267,072 84,494 (1,605) (130,378)	371,51 63,23 (63,76 (135,69	
Impairment losses on financial and contract assets, net Other expenses	財務及合約資產減值損失, 淨額 其他支出		(860) (1,000)	(9,31	
Profit before tax	融資成本	7	(67,182) 150,541	165,22	
Income tax expense	所得税開支	8	(16,858)	(44,57	
Profit for the period	期間利潤		133,683	120,64	
Attributable to: Owners of the parent Non-controlling interests	以下人士應佔: 母公司股東 非控制性權益		67,733 65,950	61,33 59,30	
Profit for the period	期間利潤		133,683	120,64	
Basic and diluted earnings per share attributable to ordinary equity holders of the parent (RMB cents)	歸屬於母公司普通股股東的 應佔每股基本及攤薄盈利 (人民幣分)				

Interim Condensed Consolidated Statement of Comprehensive Income 中期簡明綜合全面收入表

For the six months ended 30 June 2022 截至二零二二年六月三十日止六個月 (Expressed in Renminbi) (以人民幣列值)

		Six months ended 30 June 截至六月三十日止六個月		
		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)	
Profit for the period	期間利潤	133,683	120,646	
Other comprehensive (loss)/income for the period, after tax: Items that may be reclassified subsequently to profit or loss: — Exchange differences on translation of	期間其他全面(虧損)/收入 (扣除税項後): 可於後期被重分類至損益的 項目: 一換算海外業務產生的			
foreign operations	匯兑差額	(12,335)	28,491	
Total comprehensive income for the period, after tax	期間全面收入總額 (扣除税項後)	121,348	149,137	
Attributable to: Owners of the parent Non-controlling interests	以下人士應佔: 母公司股東 非控制性權益	55,398 65,950	89,830 59,307	
Total comprehensive income for the period	期間全面收入總額	121,348	149,137	

Interim Condensed Consolidated Statement of Financial Position 中期簡明綜合財務狀況表

As at 30 June 2022 於二零二二年六月三十日 (Expressed in Renminbi) (以人民幣列值)

		Notes 附註	At 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	At 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Non-current assets Property, plant and equipment	非流動資產 物業、廠房及設備	10	1,959,189	1,901,125
Long term prepayments and other receivables Right-of-use assets Investments in associates Equity investments designated at	長期預付款項及其他應收款項 使用權資產 於聯營公司的投資 以公允其(他給入)		30,539 240,537 200	17,211 238,563 200
fair value through other comprehensive income Deferred tax assets	計入其他綜合收益的權 益投資 遞延税項資產		190 6,675	190 9,065
			2,237,330	2,166,354
Current assets	流動資產			
Inventories	存貨	11	761,541	459,439
Trade and bills receivables	應收貿易賬款及票據	12	1,675,462	1,794,155
Contract assets	合約資產	13	231,597	159,049
Prepayments, other receivables and	預付款項、其他應收款項			
other assets	及其他資產	14	531,240	521,292
Current tax recoverable	即期可收回税項		4,954	7,744
Financial assets at fair value through	公允價值變動列入損益之			
profit or loss	金融資產		697	
Pledged deposits	已抵押存款	15	1,090,571	751,278
Cash and cash equivalents	現金及現金等價物	16	500,882	431,861
			4,796,944	4,124,818
Current liabilities	流動負債			
Derivative financial instruments	衍生金融工具	17	10,623	_
Interest-bearing bank and other	銀行及其他計息借貸			
borrowings		18	1,991,109	1,915,279
Trade and bills payables	應付貿易賬款及票據	19	2,404,650	2,242,716
Other payables and accruals	其他應付款項及應計開支	20	458,443	543,866
Contract liabilities	合約負債 即期應付税項		246,514	141,083 25,629
Current tax payable Provision	型	22	32,770 1,336	4,700
Current portion of lease liabilities	一年內到期的租賃負債		27,816	20,270
			5,173,261	4,893,543
Net current liabilities	流動負債淨額		(376,317)	(768,725)
Total assets less current liabilities	資產總值減流動負債		1,861,013	1,397,629

Interim Condensed Consolidated Statement of Financial Position

中期簡明綜合財務狀況表

As at 30 June 2022 於二零二二年六月三十日 (Expressed in Renminbi) (以人民幣列值)

		Notes 附註	At 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	At 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Non-current liabilities	非流動負債			
Convertible bonds Interest-bearing bank and other	可換股債券 銀行及其他計息借貸	17	245,133	_
borrowings	作77.12·云 <i>在 /</i> 丰	18	377,084	209,670
Deferred tax liabilities Deferred income	遞延税項負債 遞延收入	21	2,760 241,664	2,418 258,065
Lease liabilities	租賃負債	2.	70,834	73,592
Provision	撥備 ————————————————————————————————————	22	135,120	181,605
			1,072,595	725,350
NET ASSETS	資產淨值		788,418	672,279
EQUITY Equity attributable to owners of the parent	權益 歸屬於母公司股東的權益			
Share capital	股本	23	285,924	285,924
Reserves	儲備		88,290	90,490
			374,214	376,414
Non-controlling interests	非控制性權益		414,204	295,865
TOTAL EQUITY	權益總額		788,418	672,279

Interim Condensed Consolidated Statement of Changes in Equity 中期簡明綜合權益變動表

For the six months ended 30 June 2022 截至二零二二年六月三十日止六個月 (Expressed in Renminbi) (以人民幣列值)

		Equity attributable to owners of the parent 歸屬於母公司股東的權益									
		Share capital 股本 RMB'000 人民幣千元	Share premium 股份溢價 RMB'000 人民幣千元	General reserve fund 一般儲備金 RMB'000 人民幣千元	Capital reserve 資本儲備 RMB'000 人民幣千元	Exchange reserve 匯兑儲備 RMB'000 人民幣千元	Other reserve 其他儲備 RMB'000 人民幣千元	Accumulated losses 累計虧損 RMB'000 人民幣千元	Total 總計 RMB'000 人民幣千元	Non- controlling interests 非控制性權益 RMB'000 人民幣千元	Total equity 權益總額 RMB'000 人民幣千元
As at 1 January 2022	於二零二二年一月一日	285,924	1,752,401	238,451	34,703	825	(74,794)	(1,861,096)	376,414	295,865	672,279
Profit for the period Other comprehensive income for the period:	期間利潤 期間其他全面收入:	_	-	-	-	-	_	67,733	67,733	65,950	133,683
Exchange differences on translation of foreign operations	換算海外業務產生的匯兑 差額	_	_	_	_	(12,335)	_	_	(12,335)	_	(12,335)
Total comprehensive income	全面收入總額	-	_	_	_	(12,335)	_	67,733	55,398	65,950	121,348
Transfer of equity under common control (*) Appropriation to reserves Capital contribution from non-controlling interests Dividends paid to non-controlling	同一控制下的股權轉讓(*) 對儲備金的撥款 非控制性權益出資 支付給非控股股東的股息	_ _ _	_ _ _	 1,348 	(57,598) — —	- -	_ _ _	 (1,348) 	(57,598) — —	57,598 — 250	_ _ _ 250
shareholders As at 30 June 2022 (unaudited)	於二零二二年六月三十日									(5,459)	(5,459)
	(未經審核) 	285,924	1,752,401	239,799	(22,895)	(11,510)	(74,794)	(1,794,711)	374,214	414,204	788,418
As at 1 January 2021	於二零二一年一月一日	270,867	1,726,034	235,969	42,768	(18,525)	(64,722)	(2,051,836)	140,555	199,441	339,996
Profit for the period Other comprehensive income for the period:	期間利潤 期間其他全面收入:	_	-	-	-	_	-	61,339	61,339	59,307	120,646
Exchange differences on translation of foreign operations	換算海外業務產生的匯兑 差額	_	_	_	_	28,491	_	_	28,491	_	28,491
Total comprehensive income	全面收入總額	_	_	_	_	28,491	_	61,339	89,830	59,307	149,137
Issue of shares (**) Acquisition of non-controlling interests (***)	發行股份(**) 收購非控制性權益(***)	15,057	26,367	-	(14,218)	-	_	_	41,424 (14,218)	(27,515)	41,424
Capital contribution from non- controlling interests	非控制性權益出資	_	_	_	(14,210)	_	_	_	(14,210)	510	510
As at 30 June 2021 (unaudited)	於二零二一年六月三十日 (未經審核)	285,924	1,752,401	235,969	28,550	9,966	(64,722)	(1,990,497)	257,591	231,743	489,334

- * In March 2022, Solargiga Energy (Hong Kong) Company Limited ("Solargiga Hong Kong", a wholly-owned subsidiary of the Company) disposed of its 100% share of Jinzhou Youhua Silicon Materials Co., Ltd. ("Youhua Silicon"), the total equity of which was RMB124,402,000, to Qujing Yangguang New Energy Co., Ltd. ("Qujing Yangguang", a partly-owned subsidiary of the Company), which was defined as business disposal under common control. The Company held 53.70% share of Qujing Yangguang, therefore, after this transaction, the share of equity interest in Youhua Silicon held by the Company was diluted from 100% to 53.70%. This transaction was considered to be an equity transaction.
- * 於二零二二年三月,陽光能源(香港)有限公司(以下簡稱「陽光香港」,本公司全資附屬公司)出售其持有的錦州佑華硅材料有限公司(以下簡稱「佑華硅」)(總股本為人民幣124,402,000元)100%股權,轉讓給曲靖陽光新能源有限公司(以下簡稱「曲靖陽光」,本公司的非全資附屬公司),被定義為同一控制下的企業出售。本公司持有曲靖陽光53.70%的股權,本次交易完成後,本公司持有的佑華硅股權由100%稀釋至53.70%。本次交易被視為股權交易。

Interim Condensed Consolidated Statement of Changes in Equity

中期簡明綜合權益變動表

For the six months ended 30 June 2022 截至二零二二年六月三十日止六個月 (Expressed in Renminbi) (以人民幣列值)

- ** On 21 January 2021, the Company entered into an agreement with a subscriber, pursuant to which the Company agreed to allot and issue 180,000,000 subscription shares at the subscription price of HK\$0.29 per subscription share. The total consideration payable by the subscriber under the subscription agreement amounted to HK\$52,200,000 (equivalent to RMB41,424,000).
- *** In April 2021, Jinzhou Yangguang Energy Co., Ltd. ("Jinzhou Yangguang"), a subsidiary of the Company, acquired certain non-controlling shares from non-controlling shareholders of Jiangsu Yueyang Photovoltaic Technology Co., Ltd. ("Jiangsu Yueyang"). Subsequently, Jinzhou Yangguang agreed to inject capital into Jiangsu Yueyang in November 2020 and the injection was made in June and July 2021 respectively. As a result, there was an impact on capital reserves of the Company.
- ** 於二零二一年一月二十一日,本公司與一名認購人 訂立協議,據此本公司同意以每股認購股份0.29港 元的認購價配發及發行180,000,000股認購股份。認 購人根據認購協議應付之總代價為52,200,000港元 (相當於人民幣41,424,000元)
- *** 於二零二一年四月,本公司之附屬公司,錦州陽光能源有限公司(「錦州陽光」)從江蘇悦陽光伏科技有限公司(「江蘇悦陽」)的非控股公司股東收購部分非控股股份。隨後,錦州陽光於二零二零年十一月同意向江蘇悦陽注資,並分別於二零二一年六月和七月進行注資。因此,對本公司的資本儲備造成影響。

Interim Condensed Consolidated Statement of Cash Flows 中期簡明綜合現金流量表

For the six months ended 30 June 2022 截至二零二二年六月三十日止六個月 (Expressed in Renminbi) (以人民幣列值)

Six	mon	ths	end	ded	30	June
截	至六	月三	+	B ıF	六作	刮月

		2022 二零二二年 RMB'000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
Cash flows from operating activities Profit before tax	經營活動現金流量 除税前利潤	150,541	165,220
Adjustments for:	調整:		
Gain on disposal of property, plant and	出售物業、廠房及設備的		
equipment	收益	(131)	(8,131)
Depreciation and amortisation	折舊及攤銷	155,373	138,059
Reversal of write-down of inventories	存貨撇減回沖	(2,404)	(10,631)
Impairment losses on trade receivables and	應收貿易賬款及合約資產	(=, : : : ,	(:-,:,
contract assets	減值損失	860	9,314
Finance costs	融資成本	67,182	60,763
Interest income	利息收入	(18,781)	(2,573)
Impairment of an investment in an	於聯營公司投資的減值	(10)101)	(=/-:-/
associate	33000000	1,000	_
(Reversal of provision)/provision for	保用成本的(撥備回沖)/	,,,,,	
warranty	機備	(49,265)	5,382
Gain on disposal of a subsidiary*	出售附屬公司的收益*	(1,713)	_
Gain on acquisition of a subsidiary	收購附屬公司的收益	(1,512)	_
Fair value losses on financial instruments	金融工具公允價值的損失	2,717	_
Increase in inventories	存貨增加	(332,563)	(425,504)
Decrease in trade receivables, prepayments, other receivables and other assets	應收貿易賬款、預付款、 其他應收款項及	(002,000)	(7
other receivables and other assets	其他資產減少	132,110	25,847
Increase in contract assets	会 会 会 治 後 産 増 加	(74,267)	(81,817)
Increase in trade and other payables	應付貿易賬款及其他應付	(17,201)	(01,017)
increase in trade and other payables	款項增加	305,703	390,649
(Decrease)/increase in deferred income	遞延收入(減少)/增加	(16,401)	47,374
Foreign exchange gain	匯兑收益	(2,295)	(440)
Torcigir exchange gain		(2,233)	(440)
Cash generated from operations	經營活動所得現金	316,154	313,512
Withholding tax paid	支付預扣税	(505)	515,512
The PRC enterprise income tax paid	支付中國企業所得税	(4,314)	(6,650)
Net cash flows generated	經營活動所得現金流量淨額		
from operating activities		311,335	306,862

- On 30 June 2022, the Group disposed of its 40% share of Liaoning Sunshine Energy Power Co., Ltd. ("Liaoning Sunshine", a subsidiary of the Group) with zero consideration, and the Group's share of equity interest in Liaoning Sunshine decreased to 30% after the disposal. From which, a gain of RMB1,713,000 was recorded by the Group in the current period.
- 於二零二二年六月三十日,本集團以零代價出售其 持有的遼寧陽光能源電力有限公司(以下簡稱「遼寧 陽光」,本集團的附屬公司)40%股權,出售後本集 團持有的遼寧陽光股權減少至30%。期內本集團從 該出售中錄得收益人民幣1,713,000元。

Interim Condensed Consolidated Statement of Cash Flows

中期簡明綜合現金流量表

For the six months ended 30 June 2022 截至二零二二年六月三十日止六個月 (Expressed in Renminbi) (以人民幣列值)

		Six months e 截至六月三十	
	Note 附註	2022 二零二二年 RMB'000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
Cash flows from investing activities	投資活動現金流量		
Payment for the acquisition of property, plant and equipment Payment for the acquisition of right-of-use	就購置物業、廠房及 設備支付的款項 就購置使用權資產支付的	(337,508)	(115,337)
assets Proceeds from disposal of items of property,	款項 出售物業、廠房及設備	(1,011)	(1,785)
plant and equipment Acquisition of a subsidiary	所得款項 收購附屬公司	724 (661)	12,811 —
Purchases of financial asset at fair value through profit or loss Disposal of a subsidiary	購買公允價值計量且其變動計 入損益的金融資產 出售附屬公司	(697) (313)	_
Interest received	已收利息	18,781	2,573
Net cash flows used in investing activities	投資活動所用現金流量淨額	(320,685)	(101,738)
		(520,000)	(101)/100)
Cash flows from financing activities Subscription of new shares	融資活動現金流量 認購新股份	_	41,424
Proceeds from issue of convertible bonds Repayment of bank loans and other loans Proceeds from bank loans and other loans	發行可換股債券取得款項 償還銀行貸款及其他貸款 銀行貸款及其他貸款所得	249,829 (998,284)	(1,684,478)
Placement of pledged bank deposits Principal portion of lease payments	款項 置存已抵押銀行存款 租賃付款之本金部分	1,234,032 (339,293) (11,123)	1,548,146 (85,492) (11,772)
Capital contribution from non-controlling interests	非控制性權益出資	250	510
Payments for acquisition of non-controlling interests in a subsidiary	收購附屬公司之非控制性 權益的款項		(41,733)
Interest paid	已付利息	(54,973)	(58,860)
Net cash flows generated from/(used in) financing activities	融資活動所得/(所用)現金流量淨額	80,438	(292,255)
Net increase/(decrease) in cash and cash equivalents	現金及現金等價物增加/(減少)淨額	71,088	(87,131)
Effect of exchange rate changes Cash and cash equivalents at 1 January	匯率變動的影響淨額 於一月一日的現金及現金等	(2,067)	1,469
Casii aliu casii equivalelits at 1 Jalluary	便物 ————————————————————————————————————	431,861	456,265
Cash and cash equivalents at 30 June	於六月三十日的現金及現金等 價物 16	500,882	370,603

30 June 2022 於二零二二年六月三十日 (Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

1 Corporate Information

Solargiga Energy Holdings Limited (the "Company", together with its subsidiaries, the "Group"; Hong Kong stock code: 757) is a leading supplier of upstream and downstream vertically integrated solar energy services. During the period, the Group was mainly engaged in the following businesses:

- (a) the manufacture of, trading of and provision of processing services for monocrystalline silicon solar ingots/wafers and related products;
- (b) the manufacture and trading of photovoltaic modules;
- (c) the construction and operation of photovoltaic power plants;
- (d) the manufacture and trading of semiconductor, the trading of monocrystalline silicon solar cells and others.

2 Basis of Preparation and Changes in Accounting Policies and Disclosures

2.1 Basis of preparation

The interim condensed consolidated financial information for the six months ended 30 June 2022 are prepared in accordance with Hong Kong Accounting Standard ("HKAS") 34 Interim Financial Reporting. The interim condensed consolidated financial information does not include all the information and disclosures required in the annual financial statements and should be read in conjunction with the annual financial statements for the year ended 31 December 2021, which have been prepared in accordance with Hong Kong Financial Reporting Standards ("HKFRSs").

As at 30 June 2022, the Group's current liabilities exceeded its current assets by RMB376,317,000. The liquidity of the Group is primarily dependent on its ability to maintain adequate cash flows from operations, to renew its short-term bank loans and to obtain adequate external financing to support its working capital and meet its obligations and commitments when they become due.

1 公司資料

陽光能源控股有限公司(「本公司」,連同其附屬公司統稱「本集團」;香港股份代號:757)為上下游垂直一體化太陽能服務的領先供應商。期內,本集團主要從事以下業務:

- (a) 太陽能單晶硅棒/硅片及相關產品的製造、買賣及提供加工服務:
- (b) 製造及買賣光伏組件;
- (c) 興建及經營光伏電站;及
- (d) 製造及買賣半導體以及買賣太陽能單晶 硅電池及其他。

2 編製基準及會計政策變動與披露

2.1 編製基準

截至二零二二年六月三十日止六個月的本中期簡明綜合財務報表乃根據香港會計準則(「香港會計準則」)第34號中期財務報告編製。中期簡明綜合財務報表規定的所有資料及披露事項,並應與根據香港財務報告準則(「香港財務報告準則」)編製的截至二零二一年十二月三十一日止年度的年度財務報表一併閱覽。

於二零二二年六月三十日,本集團的流動負債超逾其流動資產人民幣376,317,000元。本集團流動資金主要依靠其於經營中維持足夠營運現金流量、重續其短期銀行貸款及取得適合外部融資以支持其營運資金及於到期時履行其責任及承擔的能力。



中期簡明綜合財務報表附註

30 June 2022 於二零二二年六月三十日

(Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

2 Basis of Preparation and Changes in Accounting Policies and Disclosures

(Continued)

2.1 Basis of preparation (Continued)

The Group has carried out a review of its cash flow forecast for the twelve months ending 30 June 2023. Based on such forecast, the directors believe that adequate sources of liquidity exist to fund the Group's working capital and capital expenditure requirements, and to meet its short-term debt obligations and other liabilities and commitments as they become due in the twelve months ending 30 June 2023. In preparing the cash flow forecast, management has considered historical cash requirements of the Group, as well as other key factors, including unutilised banking facilities as at 30 June 2022 from the Group's major banks with an amount of RMB2,248,744,000, which will expire on 31 December 2023.

Based on the above factors, the directors are confident that the Group will have sufficient funding to enable the Group to operate as a going concern and meet its financial obligations as and when they fall due for at least twelve months from the reporting date. Accordingly, the interim consolidated financial statements have been prepared on a going concern basis.

2 編製基準及會計政策變動與披露

2.1 編製基準(續)

本集團已對其截至二零二三年六月三十 日止十二個月的現金流量預測進行審閱。 按照該預測,董事認為有足夠流流動資源可撥付本集團的營運資金及戶三年六月到期時履行其短期金流,包 及其他負債與承擔。就編製現金流往於現 測而言,管理層已考慮,包括截至現 無數,包括數是要因素,包括數是要 是一年六月三十日從本集團主要銀民 是一年六月三十日從本集團主要銀民幣 2,248,744,000元(將於二零二三年十二月到期)。

基於上文因素,本集團董事有信心,本集 團將擁有充裕資金,以讓其能持續經營, 並滿足本集團於報告日期起最少十二個 月的財務責任。因此,中期綜合財務報表 乃按持續經營基準編製。

中期簡明綜合財務報表附註

30 June 2022 於二零二二年六月三十日

(Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

Basis of Preparation and Changes in Accounting Policies and Disclosures

(Continued)

2.2 Changes in accounting policies and disclosures

The accounting policies adopted in the preparation of the interim condensed consolidated financial statements are consistent with those applied in the preparation of the Group's annual consolidated financial statements for the year ended 31 December 2021, except for the adoption of the following revised Hong Kong Financial Reporting Standards ("HKFRSs") for the first time for the current period's financial information.

Amendments to HKFRS 3

Amendment to HKFRS 16

Reference to the

Conceptual Framework

Covid-19-Related Rent Concessions beyond

30 June 2021

Amendments to HKAS 16

Annual Improvements to

HKFRSs 2018-2020

Property, Plant and Equipment: Proceeds

before Intended Use

Amendments to HKAS 37 Onerous Contracts — Cost

of Fulfilling a Contract

Amendments to HKFRS 1, HKFRS 9, Illustrative Examples accompanying

HKFRS 16, and HKAS 41

編製基準及會計政策變動與披露 (續)

2.2 會計政策變動與披露

編製未經審核中期簡明綜合財務資料所 採納的會計政策與編製本集團截至二零 二一年十二月三十一日止年度之全年綜 合財務報表所應用者一致,惟以下就本 期間財務資料首次採納的香港財務報告 準則除外。

香港財務報告準則 有關概念框架之

提述 第3號的修訂

香港財務報告準則 二零二一年六月

第16號的修訂 三十日後與新型

香港會計準則 第16號的修訂

香港會計準則 第37號的修訂

二零一八年至 二零二零年之 年度改進

冠狀病毒相關的 租金優惠 物業、廠房及設備 一作擬定用途 前之所得款項 有償合約 一 履行 合約的成本 香港財務報告準則 香港財務報告準則 第1號,香港財 務報告準則第9 號、香港財務報 告準則第16號相

> 應闡釋範例及香 港會計準則第41

號的修訂

中期簡明綜合財務報表附註

30 June 2022 於二零二二年六月三十日

(Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

Basis of Preparation and Changes in Accounting Policies and Disclosures

(Continued)

2.2 Changes in accounting policies and disclosures (Continued)

The nature and impact of the revised HKFRSs are described below:

(a) Amendments to HKFRS 3 replace a reference to the previous Framework for the Preparation and Presentation of Financial Statements with a reference to the Conceptual Framework for Financial Reporting issued in June 2018 without significantly changing its requirements. The amendments also add to HKFRS 3 an exception to its recognition principle for an entity to refer to the Conceptual Framework to determine what constitutes an asset or a liability. The exception specifies that, for liabilities and contingent liabilities that would be within the scope of HKAS 37 or HK(IFRIC)-Int 21 if they were incurred separately rather than assumed in a business combination, an entity applying HKFRS 3 should refer to HKAS 37 or HK(IFRIC)-Int 21 respectively instead of the Conceptual Framework. Furthermore, the amendments clarify that contingent assets do not qualify for recognition at the acquisition date. The Group has applied the amendments prospectively to business combinations that occurred on or after 1 January 2022. As there were no contingent assets, liabilities and contingent liabilities within the scope of the amendments arising in the business combination that occurred during the period, the amendments did not have any impact on the financial position and performance of the Group.

編製基準及會計政策變動與披露

2.2 會計政策變動與披露(續)

經修訂香港財務報告準則的性質及影響 如下:

(a) 香港財務報告準則第3號的修訂以二 零一八年六月頒佈的財務報告概念 框架之提述取代先前財務報表編製 及呈列框架之提述,而毋須大幅更改 其規定。該等修訂亦對香港財務報告 準則第3號有關實體參考概念框架以 釐定資產或負債之構成之確認原則 加入一項例外情況。該例外情況規 定,對於屬香港會計準則第37號或香 港(國際財務報告詮釋委員會) — 詮 釋第21號範圍內的負債及或然負債 而言,倘該等負債屬單獨產生而非於 業務合併中產生,則應用香港財務報 告準則第3號的實體應分別參考香港 會計準則第37號或香港(國際財務報 告詮釋委員會) 一 詮釋第21號而非 概念框架。此外,該等修訂澄清或然 資產於收購日期不符合確認條件。本 集團已對二零二二年一月一日或之 後發生的業務合併進行前瞻性應用。 由於本期發生的業務合併所產生的 修訂範圍內不存在或有資產、負債和 或有負債,因此對本集團的財務狀況 和業績沒有任何影響。

中期簡明綜合財務報表附註

30 June 2022 於二零二二年六月三十日

(Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

2 Basis of Preparation and Changes in Accounting Policies and Disclosures

(Continued)

- 2.2 Changes in accounting policies and disclosures (Continued)
 - (b) Amendments to HKAS 16 prohibit an entity from deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced while bringing that asset to the location and condition necessary for it to be capable of operating in the manner intended by management. Instead, an entity recognises the proceeds from selling any such items, and the cost of those items, in profit or loss. The Group has applied the amendments retrospectively to items of property, plant and equipment made available for use on or after 1 January 2021. Since there was no sale of items produced while making property, plant and equipment available for use on or after 1 January 2021, the amendments did not have any impact on the financial position or performance of the Group.
 - (c) Amendments to HKAS 37 clarify that for the purpose of assessing whether a contract is onerous under HKAS 37, the cost of fulfilling the contract comprises the costs that relate directly to the contract. Costs that relate directly to a contract include both the incremental costs of fulfilling that contract (e.g., direct labour and materials) and an allocation of other costs that relate directly to fulfilling that contract (e.g., an allocation of the depreciation charge for an item of property, plant and equipment used in fulfilling the contract as well as contract management and supervision costs). General and administrative costs do not relate directly to a contract and are excluded unless they are explicitly chargeable to the counterparty under the contract. The Group has applied the amendments prospectively to contracts for which it has not yet fulfilled all its obligations at 1 January 2022 and no onerous contracts were identified. Therefore, the amendments did not have any impact on the financial position or performance of the Group.

2 編製基準及會計政策變動與披露

- 2.2 會計政策變動與披露(續)

 - (c) 香港會計準則第37號的修訂澄清,就 根據香港會計準則第37號評估合約 是否屬虧損性而言,履行合約的成本 包括與合約直接相關的成本。與合約 直接相關的成本包括履行該合約的 增量成本(例如直接勞工及材料)及 與履行合約直接相關的其他成本分 配(例如分配履行合約所用物業、廠 房及設備項目的折舊費用以及合約 管理及監管成本)。一般及行政成本 與合約並無直接關連,除非根據合約 明確向對手方收取,否則不包括在 內。本集團已對截至二零二二年一月 一日尚未履行其所有義務的合約進 行前瞻性應用而且並未發現任何虧 損性合約。因此,該等修訂對本集團 的財務狀況或表現並無任何影響。



中期簡明綜合財務報表附註

30 June 2022 於二零二二年六月三十日 (Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

Basis of Preparation and Changes in Accounting Policies and Disclosures

(Continued)

- 2.2 Changes in accounting policies and disclosures (Continued)
 - (d) Annual Improvements to HKFRSs 2018–2020 sets out amendments to HKFRS 1, HKFRS 9, Illustrative Examples accompanying HKFRS 16, and HKAS 41. Details of the amendments that are applicable to the Group are as follows:
 - (i) HKFRS 9 Financial Instruments: clarifies the fees that an entity includes when assessing whether the terms of a new or modified financial liability are substantially different from the terms of the original financial liability. These fees include only those paid or received between the borrower and the lender, including fees paid or received by either the borrower or lender on the other's behalf. The Group has applied the amendment prospectively to financial liabilities that are modified or exchanged on or after 1 January 2022. As there was no modification of the Group's financial liabilities during the period, the amendment did not have any impact on the financial position or performance of the Group.
 - (ii) HKFRS 16 Leases: removes the illustration of payments from the lessor relating to leasehold improvements in Illustrative Example 13 accompanying HKFRS 16. This removes potential confusion regarding the treatment of lease incentives when applying HKFRS 16.

2 編製基準及會計政策變動與披露 (續)

- 2.2 會計政策變動與披露(續)
 - (d) 香港財務報告準則二零一八年至二 零二零年週期之年度改進載列香港 財務報告準則第1號、香港財務報告 準則第9號、香港財務報告準則第16 號隨附之説明性示例及香港會計準 則第41號的修訂。預期將適用於本集 團之該等修訂詳情如下:
 - (i) 香港財務報告準則第9號金融工 具: 澄清實體於評估一項新訂或 經修訂金融負債之條款是否實質 上不同於原金融負債之條款時所 計入之費用。該等費用僅包括借 款人與貸款人之間已付或已收之 費用,其中包括借款人或貸款人 代表另一方支付或收取之費用。 本集團已對二零二二年一月一日 或之後修改或交換的金融負債進 行前瞻性應用。由於本期本集團 的金融負債未發生修改,本次修 改對集團的財務狀況或業績沒有 影響。
 - (ii) 香港財務報告準則第16號租賃: 於香港財務報告準則第16號隨附 之第13項説明性示例中移除出租 人就租賃物業裝修作出之付款説 明。此舉消除了應用香港財務報 告準則第16號時對租賃優惠進行 處理之潛在混淆。

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3 Segment Reporting

In a manner consistent with the way in which information is reported internally to the Group's most senior executive management for the purposes of resource allocation and performance assessment, the Group has identified four reportable segments and their comparative figures:

- the manufacture of, trading of, and provision of processing services for monocrystalline silicon solar ingots/wafers and related products ("Segment A");
- (ii) the manufacture and trading of photovoltaic modules ("Segment B");
- (iii) the construction and operation of photovoltaic power plants ("Segment C"); and
- (iv) the manufacture and trading of semiconductor, the trading of monocrystalline silicon solar cells and others ("Segment D").

The reportable segments had been adjusted under resources allocation reassessment during the period. Accordingly, certain prior year comparative amounts have been reclassified and restated to conform with the current year's presentation of reportable segments.

The reportable segments the Group identified in the same period prior year were as follows:

- (i) the manufacture of, trading of, and provision of processing services for monocrystalline silicon solar ingots/wafers, semiconductor and related products ("Segment A");
- (ii) the manufacture and trading of photovoltaic modules ("Segment B");
- (iii) the manufacture and trading of monocrystalline silicon solar cells ("Segment C"); and
- (iv) the construction and operation of photovoltaic power plants ("Segment D").

3 分部報告

就資源分配及表現評估而言,本集團按照與本集團最高級行政管理人員內部呈報資料一致的方式,確認四個可報告分部:

- (i) 太陽能單晶硅棒/硅片及相關產品的製造、買賣及提供加工服務(「分部A」);
- (ii) 製造及買賣光伏組件(「分部B」);
- (iii) 興建及經營光伏電站(「分部C」);及
- (iv) 製造及買賣半導體以及買賣太陽能單晶 硅電池及其他(「分部DI)。

可報告分部已於年內根據資源分配重新評估 作出調整。因此,某些去年同期的比較金額已 重新分類和重列,以符合本年度分部報告的 列報。

本集團於去年同期確定的可報告分部如下:

- (i) 太陽能單晶硅棒/硅片,半導體及相關 產品的製造、買賣及提供加工服務(「分部 A」);
- (ii) 製造及買賣光伏組件(「分部B」);
- (iii) 製造及買賣太陽能單晶硅電池(「分部 C」):及
- (iv) 興建及經營光伏電站(「分部D」)。

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Segment Reporting (Continued)

(a) Segment results, assets and liabilities

For the purpose of assessing segment performance and allocating resources between segments, the Group's most senior executive management monitors the results, assets and liabilities attributable to each reportable segment on the basis as they are presented in the Group's financial statements. Information regarding the Group's reportable segments as provided to the Group's most senior executive management for the period is set out below:

3 分部報告(續)

(a) 分部業績、資產及負債

為評估分部表現及於分部間分配資源, 本集團最高級行政管理人員會監察各可 報告分部應佔的業績、資產及負債(按照 本集團財務報表呈列的基準)。期內向本 集團最高級行政管理人員提供的有關本 集團可報告分部的資料載列如下:

Six months ended 30 June

		銭至ハガニTR止ハ廻ガ									
		•	Segment A 分部A		ent B 部B	•	ent C 部C	•	ient D 部D		otal !計
		2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
		二零二二年	二零二一年	二零二二年	二零二一年	二零二二年	二零二一年	二零二二年	二零二一年	二零二二年	二零二一年
		RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000
		人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元
		(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)
		(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)
Sales to external customers Intersegment revenue	來自外界客戶的收益 分部間收益	784,018 53,155	1,134,807 269,645	2,253,135 2,541,350	1,634,502 1,653,162	86,557 91,256	32,674 2,304	23,250 114,367	18,640 288,944	3,146,960 2,800,128	2,820,623 2,214,055
Reportable segment revenue	可報告分部收益	837,173	1,404,452	4,794,485	3,287,664	177,813	34,978	137,617	307,584	5,947,088	5,034,678
Reportable segment profit/(loss)	可報告分部利潤/ (虧損)	112,495	200,787	55,866	(53,967)	(7,177)	6,579	(27,501)	(32,753)	133,683	120,646

		•	nent A 部A	-	nent B 部B	•	ient C 部C	•	ent D 部D		tal 計
		At	At	At	At	At	At	At	At	At	At
		30 June	31 December	30 June	31 December	30 June	31 December	30 June	31 December	30 June	31 December
		2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
			二零二一年		二零二一年		二零二一年		二零二一年		二零二一年
		二零二二年	十二月	二零二二年	十二月	二零二二年	十二月	二零二二年	十二月	二零二二年	十二月
		六月三十日	三十一日	六月三十日	三十一日	六月三十日	三十一日	六月三十日	三十一日	六月三十日	三十一日
		RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000
		人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元
		(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)
		(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)
Reportable segment assets	可報告分部資產	1,192,223	1,267,535	4,103,815	3,895,912	244,815	211,816	1,493,421	915,909	7,034,274	6,291,172
Reportable segment liabilities	可報告分部負債	855,739	1,073,342	3,848,763	3,606,280	149,446	112,771	1,391,908	826,500	6,245,856	5,618,893

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Other segment information: 其他分部報告:

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3 Segment Reporting (Continued)

3 分部報告(續)

(a) Segment results, assets and liabilities (Continued)

(a) 分部業績、資產及負債(續)

Six months ended 30 June 截至六月三十日止六個月

		Segm 分音		Segm 分:		Segm 分音		Segm 分音	ent D 部D	To 總	tal 計
		2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
		二零二二年	二零二一年	二零二二年	二零二一年	二零二二年	二零二一年	二零二二年	二零二一年	二零二二年	二零二一年
		RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000	RMB'000
		人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元
		(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)	(Unaudited)	(Restated)
		(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)	(未經審核)	(已重列)
Interest income from bank deposits	銀行存款的利息收入	761	539	15,372	1,193	5	19	2,643	822	18,781	2,573
Finance costs	融資成本	(22,196)	(11,433)	(22,118)	(22,961)	(3,279)	(3,278)	(19,589)	(23,091)	(67,182)	(60,763)
Depreciation and amortisation	折舊及攤銷	(79,915)	(73,822)	(70,827)	(43,389)	(691)	(18)	(3,940)	(20,830)	(155,373)	(138,059)
Reversal of impairment losses/	應收貿易賬款及合約資產										
(impairment losses) on trade	減值回沖/(減值損失)										
receivables and contract assets		(367)	999	(5,648)	(6,602)	1,748	2,086	3,407	(5,797)	(860)	(9,314)
Reversal of write-down/(write-down) of	存貨撒減回沖/(撒減)										
inventories		177	_	3,262	10,631	(1,035)	_	_	_	2,404	10,631
Capital expenditure	資本開支	162,514	289,675	25,204	12,894	12,179	_	3,293	97	203,190	302,666

- (b) For the six months ended 30 June 2022, revenue from the major customers, each of which amounted to 10% or more of the Group's total revenue, is set out below:
- (b) 截至二零二二年六月三十日止六個月, 各自佔總收益10%或以上的主要客戶如 下:

		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
Customer A — From segment B	客戶A 一 來自分部B	601,060	319,208
Customer B — From segment A — From segment B	客戶B 一 來自分部A 一 來自分部B	— 166,146	30,466 561,699



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Segment Reporting (Continued)

(c) Geographic information

The following table sets out information about the Group's revenue from external customers by geographical location. The geographical location of a customer is based on the locations of the customers.

3 分部報告(續)

(c) 地區資料

下表載列有關本集團來自外界客戶的收 益所在地的資料。客戶地理位置以客戶 所在地點為依據。

		似王ハ月二十	日正八四万
		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
Mainland China (place of domicile)	中國大陸(註冊地點)	2,298,342	2,410,015
Export sales	出口銷售		
— Japan	— 日本	659,148	358,639
— West Asia	一 西亞地區	111,325	_
— Europe	— 歐洲	49,171	14,128
— South Asia	一 南亞地區	28,805	37,811
— Others	一其他	169	30
Sub-total	小計	848,618	410,608
Total	總計	3,146,960	2,820,623

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4 Revenue

The principal activities of the Group are the manufacture of, trading of and provision of processing services for monocrystalline silicon solar ingots/wafers, semiconductor and related products, the manufacture and trading of photovoltaic modules, and the construction and operation of photovoltaic power plants.

Revenue represents the sales value of goods and electricity supplied to customers less value-added tax or other sales taxes and income from the provision of processing services. The amount of revenue recognised for each significant category during the period is as follows:

4 收益

本集團主要業務為太陽能單晶硅棒/硅片、 半導體及相關產品的製造及買賣及提供加工 服務,製造及買賣光伏組件與興建及經營光 伏電站。

收益指供應予客戶貨物及電力的銷售值(減增 值税或其他銷售税)以及提供加工服務所得收 入。期內確認的各項重大收入類別的金額如 下:

		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
Revenue	收益		
Sales of monocrystalline silicon solar ingots/wafers, semiconductor and	銷售太陽能單晶硅棒/ 硅片、半導體及相關產品		
related products		537,476	1,133,856
Sales of monocrystalline silicon solar cells	銷售太陽能單晶硅電池	9	1,146
Sales of photovoltaic modules Construction and operation of	銷售光伏組件 興建及經營光伏電站	2,252,522	1,621,610
photovoltaic power plants		86,557	32,674
Rendering of services	提供服務	270,396	31,337
		3,146,960	2,820,623

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Revenue (Continued)

Revenue from contracts with customers

(i) Disaggregated revenue information

For the six months ended 30 June 2022

4 收益(續)

來自客戶合同之收入

(i) 分類收入信息

截至二零二二年六月三十日止六個月

		Monocrystalline silicon solar ingots/wafers 太陽能單晶 硅棒/硅片	Photovoltaic modules 光伏组件	Construction and operation of photovoltaic power plants 興建及	operation of monocrystalline photovoltaic silicon solar cells/ power plants related products 興建及 半導體/太陽能單晶		
		咗倅/ 咗 万 RMB'000	尤 (大 組 件 RMB'000	經營光伏電站 RMB'000	硅電池/相關產品 RMB'000	總計 RMB'000	
	,	人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元	
Types of goods and services	商品和服務的類型						
Sales of industrial products	銷售工業產品	514,235	2,252,522	330	23,250	2,790,337	
Processing services	代工服務	269,783	613	_	_	270,396	
Construction services	興建服務	_		86,227	_	86,227	
Total	總計	784,018	2,253,135	86,557	23,250	3,146,960	
Geographic markets	地區性市場						
Mainland China	中國	766,726	1,421,818	86,557	23,241	2,298,342	
Japan	日本	_	659,139	_	9	659,148	
West Asia	西亞地區	_	111,325	_	_	111,325	
South Asia	南亞地區	_	28,805	_	_	28,805	
Europe	歐洲	17,292	31,879	_	_	49,171	
Others	其他		169	_	_	169	
Total	總計	784,018	2,253,135	86,557	23,250	3,146,960	
Timing of revenue recognition	收入確認時間						
Goods transferred at a point of time	貨物在某個時間點轉移	E44 225	2 252 522	220	22.250	2 700 227	
	服務隨時間轉移	514,235	2,252,522	330	23,250	2,790,337	
Service transferred over time	加 份 阻 时 旧 聘 杪	269,783	613	86,227		356,623	
Total	總計	784,018	2,253,135	86,557	23,250	3,146,960	

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4 Revenue (Continued)

Revenue from contracts with customers (Continued)

(i) Disaggregated revenue information (Continued)

For the six months ended 30 June 2021 (Restated)

4 收益(續)

來自客戶合同之收入(續)

(i) 分類收入信息(續)

截至二零二一年六月三十日止六個月(已 重列)

		Monocrystalline silicon solar ingots/wafers 太陽能單晶	ar Photovoltaic rs modules	Construction and operation of photovoltaic power plants 興建及	Semiconductor/ monocrystalline silicon solar cells/ related products 半導體/太陽能單晶	Total
		硅棒/硅片	光伏組件	經營光伏電站	硅電池及相關產品	總計
		RMB'000	RMB'000	RMB'000	RMB'000	RMB'000
		人民幣千元	人民幣千元	人民幣千元	人民幣千元	人民幣千元
Types of goods and services	商品和服務的類型					
Sales of industrial products	銷售工業產品	1,116,362	1,621,610	277	18,640	2,756,889
Processing services	代工服務	18,445	12,892	_	_	31,337
Construction services	興建服務	_	_	32,397	_	32,397
Total	總計	1,134,807	1,634,502	32,674	18,640	2,820,623
Geographic markets	地區性市場					
Mainland China	中國	1,134,567	1,224,150	32,674	18,624	2,410,015
Japan	日本	_	358,625	_	14	358,639
South Asia	南亞地區	_	37,811	_	_	37,811
Europe	歐洲	226	13,900	_	2	14,128
Others	其他	14	16			30
Total	總計	1,134,807	1,634,502	32,674	18,640	2,820,623
Timing of revenue recognition	收入確認時間					
Goods transferred at a point	貨物在某個時間點轉移					
of time		1,116,362	1,621,610	277	18,640	2,756,889
Service transferred over time	服務隨時間轉移	18,445	12,892	32,397	_	63,734
Total	總計	1,134,807	1,634,502	32,674	18,640	2,820,623

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5 Other Income and Gains, Net

5 其他收入及收益,淨額

Six months ended 30 June 截至六月三十日止六個月

		観宝ハ月二十	十 日 正 八 個 月		
		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)		
Other income	其他收入				
Government grants	政府補貼	37,026	37,353		
Interest income from bank deposits	銀行存款的利息收入	18,781	2,573		
		55,807	39,926		
Other gains, net	其他收益 [,] 淨額				
Net foreign exchange (loss)/gain Net gains on disposal of property,	外匯(虧損)/收益淨額 出售物業、廠房及設備的	994	(398)		
plant and equipment	收益淨額	131	8,131		
Gain from sales of other materials	銷售其他材料收益	17,862	8,597		
Gain on disposal of a subsidiary	出售附屬公司的收益	1,713	_		
Gain on acquisition of a subsidiary	收購附屬公司的收益	1,512	_		
Fair value losses on financial instruments	金融工具公允價值的損失				
(Note 17)	(附註17)	(2,717)	_		
Others	其他	9,192	6,983		
		28,687	23,313		
Other income and gains, net	其他收入及收益,淨額	84,494	63,239		

6 Finance Costs

6 融資成本

		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
Interest on bank and other borrowings Interest on lease liabilities	銀行及其他借貸利息 租賃負債利息	64,100 3,082	60,146 617
		67,182	60,763

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7 Profit Before Tax

7 除税前利潤

The Group's profit before tax is arrived at after charging/ (crediting):

本集團除税前利潤已扣除/(轉回):

		2022 二零二二年 RMB'000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)
	共人 工次五共 (4 行利	440.472	447.024
Salaries, wages and other benefits	薪金、工資及其他福利	149,172	117,824
Depreciation of right-of-use assets	使用權資產的折舊	10,854	6,417
Depreciation of property, plant and	物業、廠房及設備的折舊	144 540	121 (42
equipment Reversal of write-down of inventories	存貨撇減回沖	144,519	131,642
	於聯營公司投資的減值	(2,404) 1,000	(10,631)
Impairment of investment in an associate	研究及開發成本	16,430	— 34,855
Research and development costs (Reversal of provision)/provision for	保用成本的(撥備回沖)/	10,430	34,033
warranty (Note 22)	撥備(附註22)	(49,265)	5,382
Impairment losses on trade receivables	應收貿易賬款及合約資產	(49,203)	3,362
and contract assets	減值損失	860	9,314
Gain on disposal of property, plant and	出售物業、廠房及設備的	000	5,514
equipment	收益	(131)	(8,131)
Gain on disposal of a subsidiary	出售附屬公司的收益	(1,713)	(0,131)
Gain on acquisition of a subsidiary	收購附屬公司的收益	(1,512)	_
Fair value losses on financial instruments	金融工具公允價值的損失	(1/21-/	
(Note 17)	(附註17)	2,717	_
Cost of inventories sold*	已售貨品成本*	2,593,219	2,402,550
Cost of services rendered*	已提供服務成本*	286,669	46,557

- * Included in cost of inventories sold and cost of services rendered, amounts of RMB144,597,000 and RMB210,866,000 in aggregate for the six months ended 30 June 2022 and 2021, respectively, relating to staff costs and depreciation which are also included in the respective total amounts disclosed separately above for each of these types of expenses.
- * 包含於已售貨品成本及已提供服務成本,於截至二零二二年及二零二一年六月三十日止六個月合共分別為人民幣144,597,000元及人民幣210,866,000元為員工成本及折舊的金額,此金額亦計入於上文單獨披露的該等各類別開支的各項總金額內。



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8 Income Tax Expense

8 所得税開支

Six months ended 30 June 截至六月三十日止六個月

		截至六月三-	截至六月三十日止六個月		
		2022 二零二二年 RMB′000 人民幣千元 (Unaudited) (未經審核)	2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)		
Current tax — the PRC Provision for the period Provision adjustment in respect of	即期税項 — 中國 期間撥備 過往年度調整	29,243	50,268		
prior years		(15,117)	(3,997)		
		14,126	46,271		
Deferred tax	遞延税項	2,732	(1,697)		
Income tax expense for the period	期間所得税開支	16,858	44,574		

Hong Kong profits tax is calculated at 16.5% of the estimated assessable profits of the Company's subsidiaries incorporated in Hong Kong for the six months ended 30 June 2022 and 2021. No provision for Hong Kong profits tax has been made as the subsidiaries either did not have any assessable profits subject to Hong Kong profits tax or had accumulated tax losses brought forward from previous years to offset the estimated profits for the period.

The Company and its subsidiaries incorporated in the British Virgin Islands and the Cayman Islands are not subject to any income tax pursuant to the local rules and regulations.

The statutory tax rate applicable to the Company's subsidiary incorporated in Germany was 15% for the six months ended 30 June 2022 and 2021. No provision for income tax in Germany has been made as the subsidiary did not have any taxable profits for the period.

The statutory tax rate applicable to the Company's subsidiary incorporated in Japan was 15% (for taxable profits below JPY8 million) or 23.4% (for taxable profits above JPY8 million) for the six months ended 30 June 2022 and 2021. No provision for income tax in Japan has been made as the subsidiary did not have any taxable profits for the period.

截至二零二二年及二零二一年六月三十日止 六個月,香港利得税按本公司於香港註冊成 立的附屬公司的估計應課税利潤的16.5%計 算。由於附屬公司並無任何應繳納香港利得 税的應課税利潤或過往年度承前累計稅項虧 損可抵銷期內估計利潤,故並無作出香港利 得稅撥備。

本公司及其於英屬處女群島及開曼群島註冊 成立的附屬公司毋須根據當地法律及法規繳 納任何所得税。

截至二零二二年及二零二一年六月三十日止 六個月,本公司於德國註冊成立的附屬公司 適用的法定税率為15%。由於該附屬公司並 無任何應課税利潤,故並無於期內作出德國 所得税撥備。

截至二零二二年及二零二一年六月三十日止 六個月,本公司於日本註冊成立的附屬公司 適用的法定税率為15%(適用於應課税利潤日 元8百萬元以下)或23.4%(適用於應課税利潤 超過日元8百萬元)。由於該附屬公司並無任何 應課税利潤,故並無於期內作出日本所得税 撥備。

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8 Income Tax Expense (Continued)

The income tax rate of the Company's PRC subsidiaries is 25% except for the subsidiaries mentioned below:

Jinzhou Yangguang has been accredited as "High and New Technology Enterprise" by the relevant government authority and has registered with the local tax authority to be eligible for a reduced income tax rate of 15% in 2012 for a term of three years and has been renewed every three years until 2020. In 2021, Jinzhou Yangguang has renewed the "High and New Technology Enterprise" certificate effective for the three years from 2021 to 2023. Accordingly, Jinzhou Yangguang was entitled to the 15% income tax rate for the six months ended 30 June 2022 and 2021.

Jiangsu Yueyang has been accredited as "High and New Technology Enterprise" by the relevant government authority in 2021 for a term of three years, and has registered with the local tax authority to be eligible for a reduced income tax rate of 15%. Accordingly, Jiangsu Yueyang was entitled to the 15% income tax rate for the six months ended 30 June 2022 and 2021.

Qujing Yangguang has registered with the local tax authority to be eligible for a reduced income tax rate of 15% in accordance with the "Catalogue of Industries Encouraged to Develop in the Western Region". Accordingly, Qujing Yangguang was entitled to the 15% income tax rate for the six months ended 30 June 2022 and 2021.

Liaoning Boxinke Semiconductor Material Co., Ltd. ("Liaoning Semiconductor") has been accredited as "High and New Technology Enterprise" by the relevant government authority in 2021 for a term of three years, and has registered with the local tax authority to be eligible for a reduced income tax rate of 15%. Accordingly, Liaoning Semiconductor was entitled to the 15% income tax rate for the six months ended 30 June 2022 and 2021.

Jinzhou Youhua Silicon Materials Co., Ltd. ("Youhua Silicon") has been accredited as "High and New Technology Enterprise" by the relevant government authority in 2021 for a term of three years, and has registered with the local tax authority to be eligible for a reduced income tax rate of 15%. Accordingly, Youhua Silicon was entitled to the 15% income tax rate for the six months ended 30 June 2022 and 2021.

8 所得税開支(續)

本公司的中國附屬公司的所得税税率為25%,惟下述附屬公司除外:

錦州陽光於二零一二年獲有關政府當局授予 「高新科技企業」地位並已向當地稅務機關登記,符合資格減按15%的稅率繳付所得税,為 期三年,並截至二零二零年為止每隔三年更 新。二零二一年,錦州陽光更新「高新科技」證 書,有效期為三年,自二零二一年起至二零 二三年止。因此錦州陽光於截至二零二二年 及二零二一年六月三十日止六個月可按15% 所得稅率繳稅。

江蘇悦陽於二零二一年獲有關政府當局授予「高新科技企業」地位,為期三年,並已向當地税務機關登記,符合資格減按15%的税率繳付所得税。因此江蘇悦陽於截至二零二二年及二零二一年六月三十日止六個月可按15%所得税率繳税。

曲靖陽光已根據「西部地區鼓勵類產業目錄」 向當地税務機關登記,符合資格減按15%的 税率繳付所得稅。因此,曲靖陽光於截至二零 二二年及二零二一年六月三十日止六個月可 按15%所得稅率繳稅。

遼寧博芯科半導體材料有限公司(「遼寧半導體」)於二零二一年獲有關政府當局授予「高新科技企業」地位,為期三年,並已向當地税務機關登記,符合資格減按15%的税率繳付所得税。因此,遼寧半導體於截至二零二二年及二零二一年六月三十日止六個月可按15%所得税率繳税。

錦州佑華硅材料有限公司(「佑華硅」)於二零二一年獲有關政府當局授予「高新科技企業」地位,為期三年,並已向當地税務機關登記,符合資格減按15%的税率繳付所得税。因此,佑華硅於截至二零二二年及二零二一年六月三十日止六個月可按15%所得税率繳税。

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9 Basic and Diluted Earnings per Share Attributable to Ordinary Equity Holders of the Parent

(a) Basic earnings per share

The calculation of basic earnings per share is based on the earnings attributable to ordinary equity holders of the parent of RMB67,733,000 (six months ended 30 June 2021: RMB61,339,000) and the weighted average of 3,323,771,133 ordinary shares of the Company in issue during the period (six months ended 30 June 2021: 3,295,925,829).

(b) Diluted earnings per share

The Company had no dilutive potential ordinary shares in issue for the periods ended 30 June 2022 and 2021.

10 Property, plant and equipment

During the six months ended 30 June 2022, the Group acquired property, plant and equipment at a total cost of RMB203,190,000 (six months ended 30 June 2021: RMB302,666,000).

Assets with a net book value of RMB593,000 were disposed of by the Group during the six months ended 30 June 2022 (six months ended 30 June 2021: RMB4,680,000), resulting in a net gain on disposal of items of property, plant and equipment of RMB131,000 (six months ended 30 June 2021: net gain of RMB8,131,000).

9 歸屬於母公司普通股股東的每股基本及攤薄盈利

(a) 每股基本盈利

每股基本盈利乃根據歸屬於母公司普通股股東的利潤人民幣67,733,000元(截至二零二一年六月三十日止六個月:人民幣61,339,000元)及期內本公司已發行普通股加權平均股數3,323,771,133股(截至二零二一年六月三十日止六個月:3,295,925,829股)計算。

(b) 每股攤薄盈利

於截至二零二二年及二零二一年六月三十 日止期間,本公司並無潛在攤薄的已發 行普通股。

10 物業、廠房及設備

於截至二零二二年六月三十日止六個月,本 集團以總成本人民幣203,190,000元(截至二零 二一年六月三十日止六個月:人民幣 302,666,000元)添置物業、廠房及設備。

本集團於截至二零二二年六月三十日止六個月期間處置賬面淨值為人民幣593,000元(截至二零二一年六月三十日止六個月:人民幣4,680,000元)的資產,因而產生出售物業、廠房及設備項目收益淨額人民幣131,000元(截至二零二一年六月三十日止六個月:收益淨額人民幣8,131,000元)。

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11 Inventories 11 存貨		
	As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Raw materials 原材料 Work in progress 在製品 Finished goods 製成品 Less: Write-down of inventories to net realisable value	364,139 28,726 369,812 (1,136)	258,677 21,607 182,695 (3,540)
	761,541	459,439
12 Trade and Bills Receivables 12 應收	貿易 賬 款 及 票 As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Trade receivables 應收貿易賬款 Bills receivable 應收票據 Less: Impairment 減:減值	1,087,480 698,740 (110,758)	1,205,268 700,504 (111,617)
	1,675,462	1,794,155

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12 Trade and Bills Receivables (Continued)

The ageing analysis of trade and bills receivables (net of allowance for doubtful debts) at the end of the reporting period based on the invoice date is as follows:

12 應收貿易賬款及票據(續)

於報告期間結算日,扣除呆賬撥備後的應收貿易賬款及票據的賬齡按發票日期分析如下:

		As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Within 1 year 1 to 2 years 2 to 3 years 3 to 4 years 4 to 5 years Over 5 years	一年內 一至二年 二至三年 三至四年 四至五年 超過五年	1,629,814 25,440 2,635 16,684 889	1,733,506 31,686 24,338 3,582 966 77
		1,675,462	1,794,155

The Group normally allows a credit period of 30 to 90 days for its customers. However, regarding domestic photovoltaic module sales, some trade receivables are granted longer credit periods of up to 180 days depending on the construction period of photovoltaic power plants.

As at 30 June 2022, bills receivable amounting to RMB346,145,000 (31 December 2021: RMB345,882,000), together with pledged deposits amounting to RMB938,753,000 (31 December 2021: RMB567,529,000) had been pledged as security to banks for issuing bills payable to suppliers amounting to RMB1,401,934,000 (31 December 2021: RMB1,315,712,000).

本集團一般授予其客戶30至90日的信貸期。 但針對國內之組件銷售,應收帳款的回收需 取決於電站建設的工程週期,部分賬款信貸 期較長,達180天。

於二零二二年六月三十日,應收票據人民幣346,145,000元(二零二一年十二月三十一日:人民幣345,882,000元)以及已抵押存款人民幣938,753,000元(二零二一年十二月三十一日:人民幣567,529,000元)已抵押作為銀行用以開具應付供應商的票據人民幣1,401,934,000元(二零二一年十二月三十一日:人民幣1,315,712,000元)。

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13 Contract Assets		13 合約	資產	
			As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Contract assets Less: Impairment	合約資產 減:減值		234,944 (3,347)	160,677 (1,628)
14 Prepayments, Other Re	ceivables and Othe	· 14 預付	231,597 款項、其他應	159,049 收款項 及其他

資產 Assets

		As at	As at
		30 June	31 December
		2022	2021
		於二零二二年	於二零二一年
		六月三十日	十二月三十一日
		RMB'000	RMB'000
		人民幣千元	人民幣千元
		(Unaudited)	(Audited)
		(未經審核)	(經審核)
Prepayments for raw materials	原材料的預付款項	352,076	314,445
Deductible value-added tax	可扣減增值税	63,414	100,291
Other receivables	其他應收款項	115,750	106,556
Less: Impairment	減:減值	_	_
		531,240	521,292

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15 Pledged Deposits

Certain of the Group's bank deposits were pledged to secure bank loans and other banking facilities granted to the Group as follows:

15 已抵押存款

本集團若干銀行存款已就本集團獲授的銀行 貸款及其他銀行融資作出抵押,載列如下:

		As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Pledged as security for bills payable Others	抵押作為應付票據的抵押品 其他	938,753 151,818 1,090,571	567,529 183,749 751,278

16 Cash and Cash Equivalents

16 現金及現金等價物

As at	As at
30 June	31 December
2022	2021
於二零二二年	於二零二一年
六月三十日	十二月三十一日
RMB'000	RMB'000
人民幣千元	人民幣千元
(Unaudited)	(Audited)
(未經審核)	(經審核)
500.882	431 861

Cash and cash equivalents

現金及現金等價物

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17 Convertible Bonds and Derivative Financial 17 可換股債券及衍生金融工具 Instruments

On 27 April 2022, Qujing Yangguang issued convertible bonds with a nominal value of RMB250,000,000 (the "Convertible Bonds") and a maturity of three years from the date of issuance. There was no movement in the number of these Convertible Bonds during the period. The bonds carried interest at a rate of 5.8% per annum, which was payable half-yearly in arrears on 30 June and 31 December. The convertible bonds were secured by certain of the Group's property, plant and equipment with a net book value of RMB250,897,000 and guaranteed by certain directors of the Group.

The principal terms of the Convertible Bonds are as below:

(a) conversion option

The bonds are convertible at the option of the bondholders into ordinary shares on 27 April 2022 with the initial conversion price determined based on the unaudited pro forma consolidated net profit of the Qujing Yangguang with its subsidiaries (collectively "Qujing Group"), for the financial year immediately preceding the date of conversion of the Convertible Bonds and a price-to-earnings multiple of 15, subject to the minimum conversion price of RMB26.3 per Qujing Yangguang's share (subject to adjustment events set out in and in accordance with the terms and conditions of the subscription agreement).

(b) redemption option

Redemption at maturity

Qujing Yangguang will redeem the Convertible Bonds at outstanding principal amount in one lump sum, together with payment of the interest, on the maturity date.

Early redemption on events of default

Upon the occurrence of an event of default, and the bondholders giving notice to Qujing Yangguang and/or any other obligors declaring, all or part of the Convertible Bonds shall be immediately redeemed.

於二零二二年四月二十七日,曲靖陽光發行 本 金 額 人 民 幣250,000,000元 的 可 換 股 債 券 (「可換股債券」),期限為自發行之日起三年。 期內,該等可換股債券數目並無變動。該債券 的年利率為5.8%,每半年到期時支付,於六 月三十日和十二月三十一日支付。可換股債 券以本集團若干物業、廠房及設備作抵押,賬 面淨值為人民幣250,897,000元,及由本集團 若干董事提供擔保。

可換股債券的主要條款如下:

(a) 轉換選項

債券持有人可選擇於二零二二年四月 二十七日將債券轉換為普通股,初始轉 換價格根據曲靖陽光及其子公司(統稱 「曲靖集團」)於可換股債券換股日期前一 財政年度的未經審計的備考綜合淨利潤, 及市盈率15倍而定,最低換股價格為每股 曲靖陽光股份人民幣26.3元(視乎認購協 議內的條款規定及調整事項而定)。

(b) 贖回選項

一 到期贖回

曲靖陽光將在到期日一次性贖回未 償還本金的可換股債券及支付利息。

違約情況下的提前贖回

一旦發生違約事件,且債券持有人 和/或有任何其他義務人通知曲靖 陽光,可立即贖回全部或部分可換股 債券。

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17 Convertible Bonds and Derivative Financial 17 可換股債券及衍生金融工具(續) **Instruments** (Continued)

- (b) redemption option (Continued)
 - Early redemption on certain events

Upon the occurrence of certain event, and the bondholders giving written notice to Qujing Yangguang, Qujing Yangguang shall redeem all or part of the outstanding Convertible Bonds on or before the date as required by the bondholders at the outstanding principal amount with interest. Otherwise, all outstanding Convertible Bonds shall be redeemed on such date earlier than the maturity date as agreed between Qujing Yangguang and the bondholders.

 Early redemption at the option of Quijing Yangguang Qujing Yangguang may, at its option, redeem all outstanding Convertible Bonds at principal amount with interest as set out in and in accordance with the terms and conditions of the subscription agreement.

The Convertible Bonds are comprised of two components:

The liability component is initially measured at fair value amounting approximately RMB242,094,000, which is subsequently measured at amortised cost by applying effective interest rate method, after considering the effect of transaction costs.

The derivative component is valued at fair value by the directors with reference to valuation carried out by an independent valuation firm, Masterpiece Valuation Advisory Ltd. The fair value of the derivative component is derived from removing the fair value of liability component from the fair value of Convertible Bonds as a whole. The derivative financial instrument representing the conversion and redemption option was subsequently measured at fair value.

- (b) 贖回選項(續)
 - 一 特定事項下的提前贖回

特定事項發生後,債券持有人向曲靖 陽光發出書面通知,曲靖陽光應於債 券持有人要求的日期或之前按未償 還本金加利息贖回全部或部分未償 還的可轉換債券。否則,所有未償還 的可換股債券應在曲靖陽光與債券 持有人協商的到期日之前贖回。

曲靖陽光選擇提前贖回 曲靖陽光可選擇按認購協議內所載 條款及條件以本金金額及利息贖回 所有未償還可換股債券。

可換股債券由兩部分組成:

負債部分以公允價值進行初始計量,金 額 約 為 人 民 幣 242,094,000 元,採 用 實 際 利率法考慮交易成本的影響後以攤餘成 本進行計量。

衍生工具部分由董事參考獨立評估公司 睿力評估諮詢有限公司進行的估值評估。 衍生工具部分的公允價值來自於從可換 股債券的整體公允價值扣除負債部分的 公允價值而來。代表轉換及贖回期權的 衍生金融工具其後按公允價值計量。

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17 Convertible Bonds and Derivative Financial 17 可換股債券及衍生金融工具(續) **Instruments** (Continued)

(b) redemption option (Continued)

The Convertible Bonds issued during the period have been split into the liability and derivative components as follows:

(b) 贖回選項(續)

本期發行的可換股債券分為負債部分和 衍生部分如下:

		2022 二零二二年 RMB′000 人民幣千元
Nominal value of convertible bonds issued	本期發行的可換股債券本金金額	
during the period	个	250,000
Liability component at the issuance date	於發行日的負債部份	242,094
Interest expense	利息支出	5,214
Interest payable	應付利息	(2,175)
Liability component on 30 June	於六月三十日的負債部份	245,133
Fair value of derivative components at	於發行日衍生部份的公允價值	
the issuance date		7,906
Fair value losses on financial instruments	金融工具公允價值的損失	2,717
Fair value of derivative components on	於六月三十日衍生部份的公允價值	
30 June		10,623

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18 Interest-bearing Bank and Other **Borrowings**

18 銀行及其他計息借貸

				30 June 2022 二二年六月三			December 202 一年十二月三	
Group	本集團	Notes 附註	Effective interest rate (%) 實際利率(%)	Maturity 到期	RMB'000 人民幣千元 (Unaudited) (未經審核)	Effective interest rate (%) 實際利率(%)	Maturity 到期	RMB'000 人民幣千元 (Audited) (經審核)
Current:	流動:							
Bank loans — secured	銀行貸款 — 有抵押	(a)	3.950-7.500	2023	541,644	3.480-7.500	2022	507,782
Bank loans — guaranteed	銀行貸款 — 已擔保	(b)	2.625-9.000	2023	1,038,011	2.585-9.000	2022	981,879
Other loans — secured	其他貸款 — 有抵押	(c)	0.000-7.500	2023	352,595	0.000-7.500	2022	410,966
Other loans — guaranteed	其他貸款 — 已擔保	(b)	5.000-5.475	2023	13,736	5.000-5.475	2022	12,299
Current portion of long-term borrowings:	長期借貸的流動 部份:							
Other loans — guaranteed	其他貸款 — 已擔保	(b)	1.600-6.000	2023	45,123	1.600-6.000	2022	2,353
Total	合計				1,991,109			1,915,279
Total	н				1,551,105			1,515,275
Non-current:	非流動:							
Other loans — guaranteed	其他貸款 一 已擔保	(b)	1.600-10.000	2024-2025	377,084	1.600-7.000	2023-2024	209,670
Convertible bonds (Note 17)	可換股債券(附註17)		15.315	2025	245,133			
Total	合計				622,217			209,670

- (a) The bank borrowings were secured by certain of the Group's property, plant and equipment and right-of-use assets with a net book value of RMB555,980,000 (31 December 2021: RMB600,545,000).
- (b) Certain subsidiaries' borrowings are guaranteed by other subsidiaries of the Group.
- (c) Other loans of the Group are secured by the Group's bills receivable amounting to RMB352,595,000 (31 December 2021: RMB354,622,000) and the Group's trade receivables amounting to Nil (31 December 2021: RMB56,344,000).
- (a) 銀行借貸以本集團賬面淨值為人民幣 555,980,000元(二零二一年十二月三十一 日:人民幣600,545,000元)的若干物業、 廠房及設備以及使用權資產作抵押。
- (b) 若干附屬公司的借貸乃由本集團其他附 屬公司提供擔保。
- (c) 其他借貸以本集團賬面為人民幣 352,595,000元(二零二一年十二月三十一 日:人民幣354,622,000元)的應收票據以 及0元(二零二一年十二月三十一日:人民 幣56,344,000元)的應收貿易賬款作抵押。

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19 Trade and Bills Payables

19 應付貿易賬款及票據

		As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Trade payables Bills payable	應付貿易賬款應付票據	1,002,716 1,401,934 2,404,650	927,004 1,315,712 2,242,716

- (a) The ageing analysis of trade and bills payables at the end of the reporting period based on the invoice date is as follows:
- (a) 於報告期間結算日,應付貿易賬款及票 據的賬齡按發票日期分析如下:

		As at 30 June 2022	As at 31 December 2021
		於二零二二年	於二零二一年
		六月三十日	十二月三十一日
		RMB'000	RMB'000
		人民幣千元	人民幣千元
		(Unaudited) (未經審核)	(Audited) (經審核)
Within 1 month	——個月內	698,002	785,573
1 to 3 months	一至三個月	932,639	712,362
4 to 6 months	四至六個月	444,479	645,239
7 to 12 months	七至十二個月	254,099	65,245
Over 1 year	超過一年	75,431	34,297
		2,404,650	2,242,716

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19 Trade and Bills Payables (Continued)

(b) As at 30 June 2022, the Group's bills payable of RMB1,401,934,000 (31 December 2021: RMB1,315,712,000) were secured by the Group's bills receivable of RMB346,145,000 (31 December 2021: RMB345,882,000) (Note 12) and by the Group's pledged deposits of RMB938,753,000 (31 December 2021: RMB567,529,000).

19 應付貿易賬款及票據(續)

(b) 於二零二二年六月三十日,本集團人民 幣1,401,934,000元(二零二一年十二月 三十一日:人民幣1,315,712,000元)的應 付票據以本集團人民幣346,145,000元(二 零二一年十二月三十一日:人民幣 345,882,000元)的應收票據(附註12)以 及人民幣938,753,000元(二零二一年十二 月三十一日:人民幣567,529,000元)的已 抵押存款作抵押。

20 Other Payables and Accruals

20 其他應付款項及應計開支

		As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元
		(Unaudited) (未經審核)	(Audited) (經審核)
Other payables and accrued expenses	其他應付款項及應計開支	406,601	512,511
Other tax payables	其他應付税項	46,238	31,217
Dividends payable	應付股息	5,604	138
		458,443	543,866

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21 Deferred Income

Various government grants have been received by the Group for generating export sales, participating in the high-tech industry and constructing various manufacturing and photovoltaic power plants in Liaoning Province, Jiangsu Province, Yunnan Province and Qinghai Province, the PRC.

Those government grants related to assets are recognised in the statement of financial position initially as deferred income and are amortised to profit or loss as other income over the useful lives of the assets.

22 Provision

The Group's photovoltaic modules are typically sold with a 2-year or 5-year warranty for defects in materials and workmanship, and a 10-year or 25-year minimum power output warranty against declines of initial power generation capacity of more than 10% and 20%, respectively from the date of receipt. The Group has the obligation to repair or replace solar modules, under the terms of the warranty policy. The Group maintains warranty reserves to cover potential liabilities that could arise under these warranties.

The Group began to sell photovoltaic modules from the year of 2010. Up to now, the Group has continuously engaged in sales business of photovoltaic module for over 10 years. According to the mathematical statistics of quality compensation starting from selling photovoltaic modules, the Group has not made any quality compensation due to declines of initial power generation capacity of more than 10% and 20% from the date of receipt or defects in materials and workmanship.

In order to present a fairer and more appropriate view of the financial position and operating results of the Group, the Group revised its accounting estimates on the provision for warranties from 1% to 0.625% in accordance with HKAS, based on the technical assessment report prepared by the Company's management, as well as further referenced to the accounting estimation adopted by other companies in the industry. The Company obtained the approval on 26 August 2022 from the Company's board of directors and adopted this change from 1 January 2022.

If there are no changes in accounting estimates, the provision for warranties would amount to approximately RMB34,387,000 in the current period; after the change in accounting estimates, a reversal of the provision for warranties of RMB47,927,000 was recorded, which increased the total profit of the Group for the period ended 30 June 2022 by approximately RMB82,314,000.

21 遞延收入

本集團因產生出口銷售、從事高科技行業及 在中國遼寧省、江蘇省、雲南省和青海省興建 多個製造廠房及光伏電站而獲得不同的政府 補貼。

該等與資產相關的政府補貼最初於財務狀況 表中確認為遞延收入,並按資產可使用年期 於損益內攤銷為其他收入。

22 撥 備

本集團的光伏組件出售時一般附帶自驗收日期起2年或5年物料損壞及人工保用,以及10年及25年最低電力輸出保證,分別保證電力輸出下降幅度不會多於初步發電產能10%及20%。根據保用政策條款,本集團有責任對太陽能組件進行維修或置換。本集團設有保用儲備以覆蓋該等保用項下的潛在負債。

本集團於2010年開始銷售光伏組件,至今,本集團已連續從事光伏組件銷售業務10餘年。根據從銷售光伏組件開始的質量補償統計數據,本集團未因初步發電產能自驗收日期起下降10%以上、20%以上或物料損壞、人工保用等原因進行質量補償。

為更公允、更恰當地反映本集團的財務狀況和經營成果,本集團在編製的技術評估報告的基礎上,及參考同行業其他公司採用的會計估計,按照香港會計準則將保用成本的撥備的會計估計由1%修訂為0.625%。本公司於二零二二年八月二十六日獲得本公司董會批准,並於二零二二年一月一日起採納此項變更。

如果不發生會計估計變更,本期保用成本的 撥備約人民幣34,387,000元:會計估計變更 後,保用成本的撥備回沖金額人民幣 47,927,000元,使本集團截至二零二二年六月 三十日止期間的利潤總額增加約人民幣 82,314,000元。

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23 Capital, Reserves and Dividends

(a) Dividends

The directors did not recommend the payment of a dividend in respect of the six months ended 30 June 2022 (six months ended 30 June 2021: Nil).

(b) Share capital

The information about the Company's ordinary shares is set out below:

23 資本、儲備及股息

(a) 股息

董事不建議就截至二零二二年六月三十 日止六個月派付股息(截至二零二一年六 月三十日止六個月:無)。

(b) 股本

本公司的普通股載列如下:

			Amount 金額
		No. of shares 股份數目	RMB'000 人民幣千元
As at 31 December 2021 (Audited)	於二零二一年十二月		
	三十一日(經審核)	3,323,771,133	285,924
As at 30 June 2022 (Unaudited)	於二零二二年六月三十日		
	(未經審核)	3,323,771,133	285,924

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24 Business Combination

In March 2022, the Group acquired a 100% interest in Jinzhou Changhua Carbon Products Co., Ltd. ("Changhua Carbon") from outside the Group. The purchase consideration for the acquisition was in the form of cash, with RMB5,192,000 paid at the acquisition date in March 2022.

The fair values of the identifiable assets and liabilities of Changhua Carbon as at the date of acquisition were as follows:

24 企業合併

於二零二二年三月,本集團從集團外收購錦州昌華碳素製品有限公司「昌華炭素」100%股權。本次收購的購買代價為現金形式,於二零二二年三月的收購日支付人民幣5,192,000元。

昌華炭素於收購日可辨認資產及負債的公允 價值如下:

> Fair value recognized on acquisition 收購時確認的 公允價值 RMB'000 人民幣千元 (Unaudited) (未經審核)

Property, plant and equipment	物業、廠房及設備	4,729
Cash and bank balances	現金及銀行結餘	4,531
Trade receivables	應收貿易賬款	28,951
Inventories	存貨	4,019
Prepayments and other receivables	預付款項及其他應收款項	413
Trade payables	應付貿易賬款	(13,038)
Other payables and accruals	其他應付款項及應計開支	(22,901)
Total identifiable net assets at fair value	以公允價值計量的可辨認淨資產總額	6,704
Gains on acquisition	收購的收益	(1,512)
Satisfied by cash	以現金結算	5,192

		RMB′000 人民幣千元
Cash consideration Cash and bank balances acquired	現金代價 獲得的現金及銀行結餘金額	(5,192) 4,531
Net outflow of cash and cash equivalents included in cash flows from investing activities	包含在投資活動現金流量的現金及現金 等價物淨流出	(661)

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25 Capital Commitments

25 資本承擔

As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核) As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)

Contracted but not provided for

已訂約但未計提撥備

300,563

465,020

26 Material Related Party Transactions and Balances

(a) Significant related party transactions

26 重大關連方交易及結餘

(a) 重大關連方交易

Six months ended 30 June 截至六月三十日止六個月

Note 附註 2022 二零二二年 RMB'000 人民幣千元 (Unaudited) (未經審核) 2021 二零二一年 RMB'000 人民幣千元 (Unaudited) (未經審核)

Purchases of goods from: The entities controlled by the directors of the Company or close family members of the directors 向下列各方購買貨品: 本公司董事或董事的近 親所控制的實體

(i)

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26 Material Related Party Transactions and **Balances** (Continued)

26 重大關連方交易及結餘(續)

(b) Outstanding balances with related parties

(b) 與關連方之間的尚未償還結餘

		Notes 附註	As at 30 June 2022 於二零二二年 六月三十日 RMB'000 人民幣千元 (Unaudited) (未經審核)	As at 31 December 2021 於二零二一年 十二月三十一日 RMB'000 人民幣千元 (Audited) (經審核)
Trade and bills receivables: Associates of the Group	應收貿易賬款及票據: 本集團聯營公司	(iii)	39,554	103
			39,554	103
Prepayments and other receivables: Entities controlled by the directors of the Company	預付及其他應收款項: 本公司董事或董事的 近親所控制的實體	(iii)		
or close family members of the directors			1,727	_
			1,727	
Trade payables: Entities controlled by the directors of the Company or close family members of	應付貿易賬款: 本公司董事或董事的 近親所控制的實體	(iii)		
the directors			268	274
			268	274
Short-term loan: A director of a subsidiary	短期借款: 一間附屬公司之一名 董事	(ii)	10,380	8,214
			10,380	8,214

中期簡明綜合財務報表附註

30 June 2022 於二零二二年六月三十日

(Expressed in Renminbi unless otherwise indicated) (除另有註明者外,以人民幣列值)

26 Material Related Party Transactions and Balances (Continued)

(b) Outstanding balances with related parties

Notes:

- In the opinion of the directors, the transactions between the Group and the related parties were conducted in the ordinary and usual course of business and on normal commercial terms, and the pricing terms were at the prevailing market prices.
- (ii) The Group had an outstanding balance due to a director of a subsidiary amounting to HK\$11,818,000 (equivalent to RMB10,380,000) as at the end of the reporting period. This loan was received from a director of a subsidiary, and the loan is unsecured, with a 5% annual interest rate.
- (iii) Except for the short-term loan from a director of a subsidiary. the other balances were unsecured, non-interest-bearing and repayable on demand. Trade receivables from and trade payables to related parties were repayable or to be settled on the respective credit terms.

27 Events after the Reporting Period

On 29 April 2022, Qujing Yangguang and Guotai Junan Securities Co., Ltd. ("Guotai Junan") entered into a service agreement (the "Service Agreement"), pursuant to which Guotai Junan has agreed to place, on a best-effort basis, up to 27,138,643 shares of Qujing Yangguang to investors and the amount of proceeds to be raised would be no more than RMB460,000,000 (the "Capital Injection"). The Service Agreement, the Capital Injection and the transactions contemplated thereunder are subject to approval by the shareholders of the Company, which was obtained at an extraordinary general meeting of the Company held on 17 August 2022. Completion of the Capital Injection is subject to the fulfilment of the relevant conditions precedent.

28 Approval of the Interim Condensed Consolidated Financial Statements

The interim condensed consolidated financial statements were approved and authorised for issue by the board of the directors on 26 August 2022.

26 重大關連方交易及結餘(續)

(b) 與關連方之間的尚未償還結餘(續)

附註:

- (i) 董事認為,本集團與關連方之間的交易是 在一般及日常業務過程中按正常商業條 款進行,定價條款乃按照當前的市場慣 例。
- (ii) 於報告期末,本集團與一間附屬公司之一 名董事的尚未償還結餘為11,818,000港元 (相當於人民幣10.380.000元)。該貸款是 從一間附屬公司的一名董事處獲得,該貸 款為無抵押,年利率為5%。
- (iii) 除了從一間附屬公司之一名董事處獲得 的短期貸款外,其他餘額均為無抵押、免 息及須按要求償還。來自關聯方的應收貿 易賬款和應付貿易賬款應根據各自的信 用條件償還或結算。

27 報告期間後事項

於二零二二年四月二十九日,曲靖陽光與國 泰君安証券股份有限公司(「國泰君安」)訂立 服務協議(「服務協議」),據此,國泰君安同意 按竭誠基準配售最多27,138,643股曲靖股份予 投資者,經增資(「增資」)將募集的所得款項 不會多於人民幣460,000,000元。服務協議、 增資及其項下擬進行的交易須由本公司股東 批准,並已於二零二二年八月十七日召開的 股東特別大會上獲得本公司股東批准。增資 須待相關先決條件達成後,方告完成。

28 批准中期簡明綜合財務報表

董事會已於二零二二年八月二十六日核准並 許可發出中期簡明綜合財務報表。



