

NEW UNIVERSE ENVIRONMENTAL GROUP LIMITED 新宇環保集團有限公司

(incorporated in the Cayman Islands with limited liability)

(於開曼群島註冊成立之有限公司)

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2023

ENVIRONMENTAL, SOCIAL AND
GOVERNANCE REPORT

環境、社會及管治報告

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Table of Contents 目錄

About this Report 關於本報告	2
Reporting Boundary 匯報範圍	2
Reporting Principles 匯報原則	4
Sustainability Governance 可持續管治	4
The Mission of the Group 本集團使命	4
Sustainability Governance Structure 可持續管治架構	6
The Board Statement 董事會聲明	7
Stakeholder Engagement and Materiality 利益相關者的參與及重要性	8
Strategies in 2024 and Beyond 二零二四年及以後的策略	11
Management Systems 管理體系	12
Environmental Commitments 環保承諾	13
Pursuing Environmental Excellence 追求卓越環境 (A3)	13
Environmental Strategies and Targets 環境策略及目標 (A1.5, A1.6, A2.3, A2.4)	15
Emissions 排放物 (A1)	27
Use of Resources 資源使用 (A2)	35
Combating Climate Change 抵抗氣候變化 (A4)	42
Social Responsibilities and Ethics 社會責任與道德	47
1. Employment and Labour Practices 僱傭及勞工常規	47
Employment 僱傭 (B1)	47
Employee Health and Safety 僱員健康及安全 (B2)	50
Development and Training 發展及培訓 (B3)	56
Labour Standards 勞工準則 (B4)	60
2. Value Chain and Ethics 價值鏈與道德	61
Supply Chain Management 供應鏈管理 (B5)	61
Product/Service Responsibility 產品/服務責任 (B6)	62
Anti-corruption 反貪污 (B7)	64
Community Investment 社區投資 (B8)	65
Summary of the Group's Key Performances 本集團關鍵績效概要	66
Key Performances Indicators 關鍵績效指標	66
Emissions 氣體排放量	66
Waste Management 廢物管理	66
Energy Usage 能源使用	67
Water Usage 用水	67
Employment 僱傭	68
Employee Safety 僱員安全	69
Employee Training 僱員培訓	69
Appendix – HKEx ESG Reporting Guide Index 附錄 – 聯交所環境、社會及管治報告指引索引	70
Assurance Statement 驗證聲明	77

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

About this Report

This is the ESG report of New Universe Environmental Group Limited (the “**Company**”) and its key operations (collectively referred to as the “**Group**”), highlighting its Environmental, Social, and Governance (the “**ESG**”) performance, with disclosure reference made to the ESG Reporting Guide as set out in Appendix C2 of the Rules governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the “**Listing Rules**”). This ESG report is published on the website of the Company (www.nuigl.com) and The Stock Exchange of Hong Kong Limited (www.hkexnews.hk).

Reporting Boundary

This ESG report covers the Group’s overall performance in two subject areas, namely, Environmental and Social of its key business operations (“**Key Operations**”) as listed below, that contribute to 100% of the Group’s consolidated revenue in 2023, totalling HK\$405,612,000) in Jiangsu Province, Mainland China from 1 January 2023 to 31 December 2023 (“**Reporting Year**”), unless otherwise stated.

Except for the disposal of Jiangsu Yu Xin Environmental Engineering Management Limited (“**Jiangsu Yu Xin**”) by the Group on 3 August 2023 that being excluded from the Key Operations in the Reporting Year, there were no other major changes with the reporting boundary when compared with that for the period from 1 January 2022 to 31 December 2022 (the “**Last Reporting Period**”).

Key Operations:

- Zhenjiang Sinotech Eco-Electroplating Development Ltd (“**Zhenjiang Sinotech**”), which owns an industrial park zone and is responsible for operating its centralised industrial sewage filtering plant and centralised sludge treatment centre, to collect, store and handle industrial sewage and sludge waste discharged within the zone (“**Eco-Plating Specialised Zone**”)
- Zhenjiang New Universe Solid Waste Disposal Co. Ltd (“**Zhenjiang New Universe**”), which owns hazardous waste warehouses, detoxification machinery, and incinerators, to collect, store and handle industrial hazardous waste and regulated medical waste
- Yancheng NUHF Environmental Technology Ltd (“**Yancheng NUHF**”), which owns hazardous waste warehouses, detoxification machinery, incinerators, and landfill, to collect, store and handle industrial hazardous waste and regulated medical waste
- Xiangshui New Universe Environmental Technology Ltd (“**Xiangshui NU**”), which owns hazardous waste warehouses, detoxification machinery, and incinerators, to collect, store and handle industrial hazardous waste

關於本報告

此乃新宇環保集團有限公司(「**本公司**」)及其主要業務(統稱「**本集團**」)參照《香港聯合交易所有限公司證券上市規則》(「**上市規則**」)附錄C2所載的《環境、社會及管治報告指引》作出披露，並以其環境、社會及管治(「**環境、社會及管治**」)表現為重點的環境、社會及管治報告。本環境、社會及管治報告登載於本公司網站(www.nuigl.com)及香港聯合交易所有限公司網站(www.hkexnews.hk)。

匯報範圍

除另有說明外，本環境、社會及管治報告涵蓋二零二三年一月一日至二零二三年十二月三十一日(「**報告年度**」)本集團在中國內地江蘇省的主要業務運作(「**主要業務運作**」，見下文所列，於二零二三年為本集團綜合收益貢獻約100%，總額為405,612,000港元)在環境及社會兩個主要範疇之整體表現。

除本集團於二零二三年八月三日出售江蘇宇新環保工程管理有限公司(「**江蘇宇新**」)不納入報告年度的主要業務運作之外，匯報範圍與二零二二年一月一日至二零二二年十二月三十一日期間(「**上個報告期間**」)相比並無其他重大變化。

主要業務運作：

- 鎮江華科生態電鍍科技發展有限公司(「**鎮江華科**」)，擁有一個工業園區並負責營運其集中式污泥處理廠及集中式污泥處理中心以收集、貯存及處理在園區(「**環保電鍍專業區**」)內排放的工業污水及污泥
- 鎮江新宇固體廢物處置有限公司(「**鎮江新宇**」)，擁有危險廢物倉庫、無害化機器及焚燒設施以收集、貯存及處理工業危險廢物及受管制醫療廢物
- 鹽城新宇輝豐環保科技有限公司(「**鹽城新宇輝豐**」)，擁有危險廢物倉庫、無害化機器、焚燒設施及填埋場以收集、貯存及處理工業危險廢物及受管制醫療廢物
- 響水新宇環保科技有限公司(「**響水新宇**」)，擁有危險廢物倉庫、無害化機器及焚燒設施以收集、貯存及處理工業危險廢物

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

- Suqian New Universe Solid Waste Disposal Co. Ltd (“**Suqian New Universe**”), which owns hazardous waste warehouses, detoxification machinery and incinerators, to collect, store and handle industrial hazardous waste and general industrial waste
- 宿遷宇新固體廢物處置有限公司(「**宿遷宇新**」)，擁有危險廢物倉庫、無害化機器及焚燒設施以收集、貯存及處理工業危險廢物及一般工業廢物
- Jiangsu Xin Yu Environmental Technologies Ltd (“**Jiangsu Xin Yu**”), which is authorised by the Company to carry out daily operational management of all the above subsidiaries
- 江蘇新宇環保科技有限公司(「**江蘇新宇**」)，獲本公司授權對以上所有附屬公司進行日常營運的管理

The general information of the Key Operations during the Reporting Year and the comparative figures for previous two years are as follows:

報告年度主要業務運作概況以及前兩年的比較數字如下：

	2023 二零二三年	2022 二零二二年	2021 二零二一年
Turnover of key operations (HK\$'000) 主要業務運作的營業額(千港元)	405,612	588,951	727,167
Total building area (m ²) 廠區及辦公室總面積(平方米)	282,789	284,637	284,390
Hazardous waste landfill site area (m ²) 危險廢物填埋場佔地面積(平方米)	87,695	87,695	87,695
Total hazardous, industrial, and medical waste treated and handled* during the reporting year (tonnes) 報告年度內經處置及處理的危險、工業及醫療廢物*總量(噸)	92,879	97,051	105,581
Total industrial wastewater treated and handled [^] during the reporting year (m ³) 報告年度內經處置及處理的工業廢水 [^] 總量(立方米)	437,478	349,709 [#]	434,831
Total industrial sludge [^] treated and handled during the reporting year (m ³) 報告年度內經處置及處理的工業污泥 [^] 總量(立方米)	4,085	3,798 [#]	7,002

~ Building area has slightly decreased in 2023 due to the disposal of Jiangsu Yu Xin; and newly established fire monitoring centre at Zhenjiang Sinotech has contributed to an increased building area in 2022.

~ 由於二零二三年已出售江蘇宇新，廠區及辦公室面積略為下降；於二零二二年，鎮江華科新成立的火災監察中心令建築面積增加。

* Industrial waste, regulated medical waste, and other hazardous waste, hereinafter “solid waste”, refers to hazardous waste incinerated and/or landfilled by Zhenjiang New Universe, Yancheng NUHF, Xiangshui NU, and Suqian New Universe, together as the “solid waste treatment operations”.

* 工業廢物、受管制醫療廢物及其他危險廢物，以下簡稱「固體廢物」，是指由鎮江新宇、鹽城新宇輝豐、響水新宇及宿遷宇新所焚燒及／或填埋的危險廢物，統稱「固體廢物處理業務」。

[^] Industrial wastewater and industrial sludge, hereinafter “wastewater”, refers to electroplating wastewater discharged from manufacturing clients within the Eco-plating Specialised Zone and treated by the Group-operated centralised sewage and sludge treatment plant in the Zone for filtration, purification reuse and further disposal.

[^] 工業廢水及工業污泥，以下簡稱(「廢水」)，指環保電鍍專業區內製造業客戶排放的電鍍廢水，並由本集團在園區內營運的集中式污水及污泥處理廠進行過濾、淨化、再用及進一步處置。

[#] The treatment volume of wastewater in 2022 was reduced significantly as affected by the overall economic situation.

[#] 受整體經濟形勢的影響，廢水的處理量於二零二二年大幅減少。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Reporting Principles

The preparation of the ESG Report has applied the following principles:

Materiality – materiality assessments have been carried out to identify material environmental and social issues that have major impacts on investors and other stakeholders, the significant stakeholders, process, and results of the engagement of which are presented in the section “Stakeholder Engagement and Materiality” in the Report.

Quantitative – key performance indicators (“KPI”s) have been established, and are measurable and applicable to make valid comparisons under appropriate conditions; information on the standards, methodologies, assumptions, and/or calculation tools used, and sources of conversion factors used, have been disclosed when applicable.

Balance – performance of the Group was presented in an unbiased and impartial manner. Reasons for omission have been disclosed if the omission is inevitable.

Consistency – consistent statistical methodologies and presentation of KPIs have been used to allow meaningful comparisons of related data over time.

Sustainability Governance

The Mission of the Group

Having been participating in the environmental industry since 2007, the Company’s business operations and customers have expanded to a greater area across the Jiangsu Province in Mainland China. The Group has become the most trustworthy business partner of more than 1,500 enterprises in the Jiangsu Province.

The Group is mainly engaged in the collection, handling, treatment, and disposal of clients’ hazardous waste, the majority of which are industrial and medical waste. With the primary principle of incinerating such waste safely, the Group hopes its efforts would contribute to minimising negative impacts on the environment and preventing the spread of infectious diseases induced by improper disposal. The Group also owns and manages an Eco-Plating Specialised Zone in Zhenjiang, which consists of sewage and sludge treatment plants specialised for treating electroplating chemicals discharged from factory buildings, office buildings, and infrastructure of water, steam, and electricity supplies.

匯報原則

在編撰環境、社會及管治報告時，本集團已應用下列原則：

重要性—評估重要性，以識別對投資者及其他利益相關者構成重大影響的重要環境及社會議題，本報告「利益相關者的參與及重要性」一節陳述重要利益相關者、參與過程及結果。

量化—訂下關鍵績效指標（「**關鍵績效指標**」），可予計量並適用於在適當條件下進行有效比較。有關標準、方法、假設、所使用的計算工具、所使用的轉換系數來源等資料，已於適用情況下披露。

平衡—本集團以不偏不倚及公正的方式呈列業績。如有無法避免的遺漏，則經已披露遺漏的原因。

一致性—就關鍵績效指標使用一致的統計方法及呈報形式，令相關數據日後可作有意義的比較。

可持續管治

本集團使命

本公司自二零零七年起從事環保行業，業務運作及客戶已擴展至遍及中國內地江蘇省更廣大地區。本集團已成為江蘇省超過1,500間企業的最值得信賴的業務夥伴。

本集團主要從事收集、搬運、處理及處置客戶的危險廢物，其中大部分為工業及醫療廢物。本著安全焚燒的原則，本集團希望自行努力將對環境的負面影響降至最低，並防止因處置不當而引發的傳染病傳播。本集團亦擁有及管理鎮江市內的環保電鍍專業區，當中包括專為處理工廠樓房所排放的電鍍化學品而設的污水及污泥處理廠、辦公樓，以及供應水、蒸汽及電力的基礎設施。



Figure 1 Hazardous waste warehouse at Suqian New Universe

圖1 宿遷宇新危險廢物倉庫

The Group strives to ensure lean and effective management, exceed expectations of shareholders, optimise integrated strength of business units, and assure missions on environmental support to avoid hazardous waste pollution.

本集團致力確保採取精簡而有效的管理，超越股東期望，優化業務單元的綜合實力，並避免危險廢物污染，落實支持環保的使命。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Sustainability Governance Structure

The board of directors (the “**Board**”) provides strategic direction on material ESG issues and oversees their implementation at the operation level. The management of ESG and climate-related issues has been integrated into the Group’s existing board committees and personnel. To facilitate an effective governance of ESG issues, the Group has set up the ESG Committee during the Reporting Year as of 18 May 2023. The job duties of the ESG Committee include assisting the senior management and the Board in:

- Developing ESG-related strategies, including identifying, evaluating and monitoring ESG issues that could affect the Group’s business activities, performance, sustainable growth and reputation;
- Identifying ESG-related opportunities and risks that are important for the Group and makes recommendations to the Board;
- Improving the Group’s awareness and knowledge of ESG issues;
- Overseeing the integration of strategically significant ESG policies into the business operations and strategy; and
- Facilitating communications with employees, investors and other stakeholders with respect to ESG issues.

The Chairman of the Audit Committee serves as the Chairman of the ESG Committee, which the Group believes shall allow for better correlation of ESG KPIs with financial KPIs. In addition, the ESG Committee also consists of directors, officers and employees of the Group from various disciplines, including, but not limited to human resources and communications, finance, legal, waste treatment and disposal management of all key project companies operating in Mainland China and environmental management of the Eco-plating Specialised Zone in the Jiangsu Province. The ESG Committee holds meetings at least once a year and at other times as determined by the chair of the ESG Committee.

Apart from the annual report of its performance and recommendations to the Board, the ESG Committee will evaluate its fulfilment of its responsibilities under the terms and references of the ESG Committee on an annual basis and report the findings to the Board.

可持續管治架構

董事會(「**董事會**」)就重大的環境、社會及管治事宜提供戰略指導，並監督其在運營層面的實施。對環境、社會及管治和氣候相關問題的管理已被納入本集團現有的董事會委員會及人員。為促進對環境、社會及管治問題的有效治理，本集團已於截至二零二三年五月十八日之報告年度成立環境、社會及管治委員會。環境、社會及管治委員會之職責包括在以下方面協助高級管理層及董事會：

- 制定環境、社會及管治相關策略，包括識別、評估及監察可能影響本集團業務活動、績效、可持續增長及聲譽的環境、社會及管治事宜；
- 識別對本集團重要的與環境、社會及管治相關的機會及風險，並向董事會提出建議；
- 提高本集團對環境、社會及管治問題的意識及瞭解；
- 監察具有戰略意義的環境、社會及管治政策與業務運營及戰略的整合；及
- 促進與員工、投資者及其他利益相關者在環境、社會及管治問題上的溝通。

審核委員會主席兼任環境、社會及管治委員會主席，本集團認為此有助於連結環境、社會及管治關鍵績效指標與財務關鍵績效指標。此外，環境、社會及管治委員會亦包括本集團各部門的董事、高級職員及員工，包括(但不限於)人力資源及溝通、財務、法律、在中國內地運營的所有主要項目公司的廢物處理及處置管理以及江蘇省環保電鍍專區的環境管理。環境、社會及管治委員會每年至少舉行一次會議，而其他開會時間由環境、社會及管治委員會主席決定。

除向董事會提交年度績效報告及建議外，環境、社會及管治委員會亦將每年評估其在環境、社會及管治委員會條款及職權範圍內的職責履行情況，並向董事會報告。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

The Board Statement

The Board of the Group is individually and collectively responsible for overseeing the ESG issues, evaluating and determining ESG related risks and ensuring effective risk management and internal control systems within the Group. The Group engages third-party consultants to advise on and assist with the planning of ESG strategies. During the annual Board Meeting, the Board evaluates and prioritises ESG issues. The management office of the Key Operations regularly reviews daily operations on a monthly basis and communicates to the Board through bi-annual or quarterly meetings. During the meetings, the Group's performance, including ESG performance and risks are evaluated, followed by the formulation of action plans. The Board prioritises accountability, compliance, internal control, and rectification when it comes to ESG issues.

In terms of sustainability, the Board adheres to Confucianism's "family, nation, and the world" concept. When translated to the sustainability context, it is believed that the Group must provide a good and healthy working environment for its employees, improve industrial practices to achieve lower emissions, and create corporate value to contribute to the community in accordance with the national environmental protection approach. The Board hopes to achieve the mission for peace and prosperity with the effort of the entire Group. The Group believes that decomposing substances that are hazardous to human health, and treating the hazardous substances in areas away from the densely populated cities is the most practical way to protect citizens.

The Group mainly invests in the collection and treatment of hazardous wastes, electroplating chemicals and wastewater. The Group's investment in the environmental industry aligns with the national approach in achieving carbon peak and carbon neutrality. The Group also aims to achieve carbon neutrality by utilising renewable energy, researching for technological improvements for its treatment processes and exploring means for carbon absorption and compensation.

In recent years, Jiangsu Province of the People's Republic of China ("PRC"), where the Group's main business is located, has focused on pollution control and carbon reduction, green transformation of economic and social development, and improving the quality of the ecological environment. The Group's primary goal is to:

1. ensure that the Key Operations adhere to the national environmental protection policy;
2. bring together internal and external human resources to improve the Group's treatment technology and its management's capabilities; and

董事會聲明

本集團董事會個別及集體負責監督環境、社會及管治事宜，評估和釐定環境、社會及管治相關風險，並確保本集團內的風險管理及內部控制系統有效。本集團委聘第三方顧問為環境、社會及管治戰略的規劃提供建議和協助。於年度董事會會議，董事會對環境、社會及管治事宜進行評估和優先排序。主要業務運作的管理辦公室每月定期審查日常業務運作，並通過半年或季度會議與董事會溝通。在會議期間，對本集團的表現，包括環境、社會及管治表現和風險進行評估，隨後制定行動計畫。在涉及環境、社會及管治事宜時，董事會優先考慮問責、合規、內部控制和整改。

在可持續發展方面，董事會堅持儒家的「齊家、治國、平天下」的理念。當轉化為可持續背景時，本集團認為必須為僱員提供良好和健康的工作環境，改善行業慣例以實現更低的排放，並按照國家環保方針創造企業價值以貢獻社會。董事會希望通過整個集團的努力，實現和平與繁榮的使命。本集團認為，分解對人體健康有害的物質，在遠離城市人口密集的地區處理有害物質是保護市民的最實際方法。

本集團主要投資於收集和處理危險廢物、電鍍化學品及廢水。本集團在環保行業的投資與國家實現碳峰值和碳中和的方針一致。本集團亦旨在通過利用可再生能源、研究處理過程的技術改進和探索碳吸收及補償的手段，實現碳中和。

近年來，本集團主要業務所在的中華人民共和國（「中國」）江蘇省將重點放在污染控制與碳減排、經濟與社會發展的綠色轉型以及改善生態環境質量。本集團的主要目標為：

1. 確保主要業務運作緊貼國家環保政策；
2. 彙集內部及外部的人力資源，提高本集團的處理技術及管理能力和；

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

3. in addition to meeting profit targets, allocate more resources on environmental protection, occupational health and safety, and the contribution to the society.

While the effects of the COVID-19 pandemic have gradually subsided in 2023, its effects on the macroeconomic environment have lingered on, thus leading to overabundance and subsequently lower prices of waste treatment services. Due to these factors, the Group's business and turnover have yet to return to pre-pandemic levels. Nevertheless, the Group recognises that sustainability is the key to resilience in difficult times, and endeavours to maintain its commitment to ESG performance. The Group shall continue monitoring its ESG KPIs, while also upgrading its equipment, minimising its energy waste, improving its technology, and lowering its emissions.

The Group continues to engage professionals in the fields of sustainability, risk management and auditing to perform annual evaluation and provide advice on the industrial trends. Performance review is conducted based on the KPIs and the ESG disclosures to the public. The Key Operations have set targets in emission, energy, water and waste reduction. Targets were set by Key Operations separately since their client portfolios are diverse. The Board reviews the targets that were set, and monitors tracked performance to achieve continuous improvement in ESG performance.

Stakeholder Engagement and Materiality

Stakeholder Engagement

Considering the importance of stakeholders to the Group's businesses, the Company maintains close communication through various channels with stakeholders to understand their concerns and expectations, and significant issues which may pose risks to the business operations. The Group's key internal and external stakeholders include, shareholders, employees, suppliers, business partners, government and regulators, customers, and local communities.

Materiality Assessment

During the Reporting Year, the Group has specifically engaged members of the Board, senior management, frontline employees, suppliers, regulators, and external consultants to gain further insights on material aspects and challenges via meetings, focus groups and questionnaires. Following the stakeholder engagement, a materiality assessment was undergone for the Group to better identify, prioritise, and address issues that stakeholders feel important. Results from the materiality assessment are as follows:

3. 在完成利潤目標之餘，在環保、職安健及對社會貢獻方面分配更多資源。

儘管新冠疫情影响已於二零二三年逐漸消退，但其對宏觀經濟環境的影響仍在持續，因此導致廢物處理服務過剩，價格因而下降。受該等因素影響，本集團的業務及營業額尚未恢復到疫情前的水平。儘管如此，本集團意識到可持續發展為於困難時期保持韌性的關鍵，並致力保持對環境、社會及管治表現的承諾。本集團將持續監控其環境、社會及管治關鍵績效指標，同時更新設備、減少能源浪費、改善技術及降低排放。

本集團繼續聘請可持續發展、風險管理及審計領域的專業人士進行年度評估，並就行業趨勢提供建議。績效評估乃根據關鍵績效指標及對公眾披露環境、社會及管治事宜。主要業務運作已制定減排、節能、節水及減廢方面的目標。由於主要業務運作的客戶組合各不相同，其分別定立獨立目標。董事會對所設定的目標進行審查，並對所追蹤的績效進行監測，以實現環境、社會及管治績效的持續改善。

利益相關者的參與及重要性

利益相關者的參與

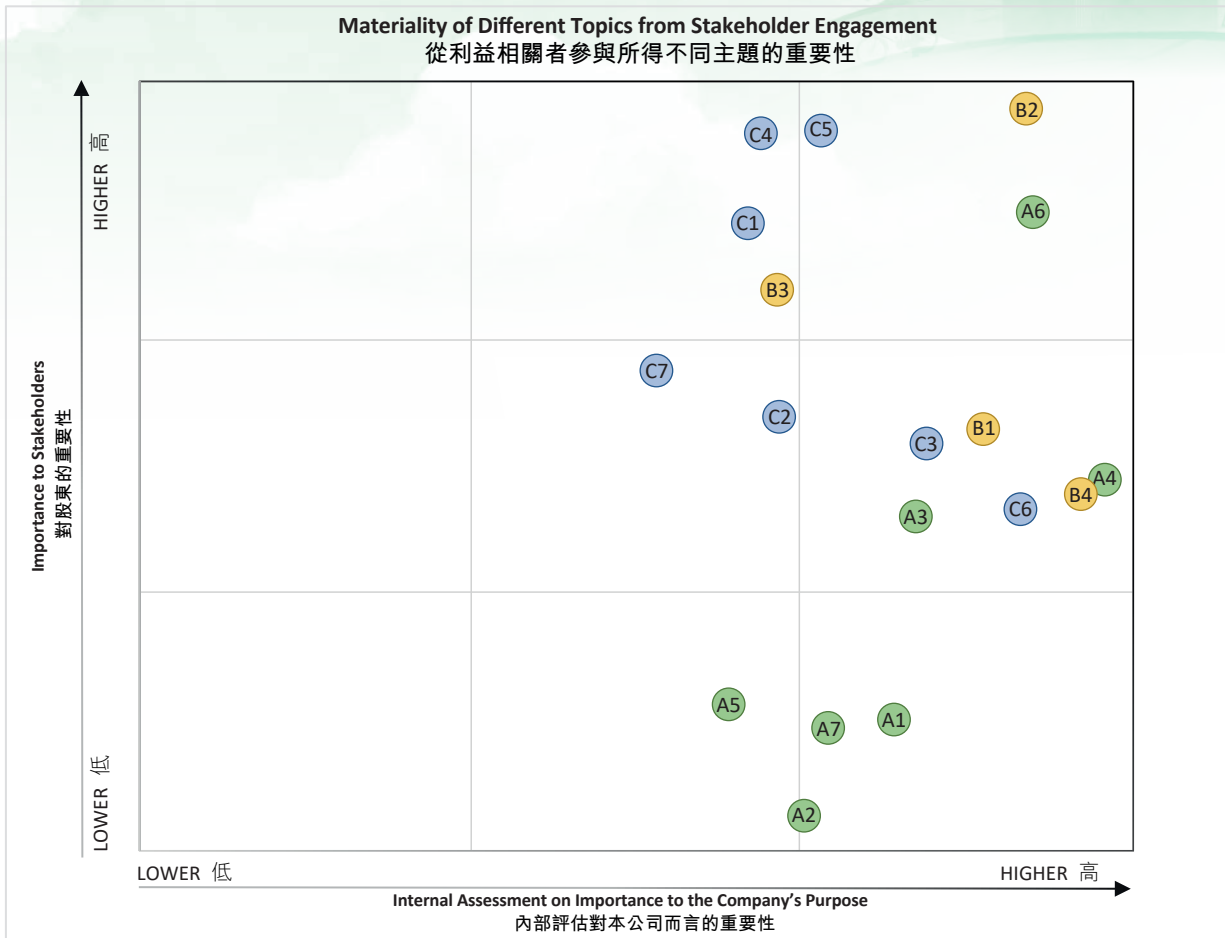
考慮到利益相關者對本集團業務的重要性，本公司通過各種渠道與利益相關者保持緊密溝通，從而了解彼等的關切事項及期望，以及可能對業務營運構成風險的重大事宜。本集團的主要內部及外部利益相關者包括股東、僱員、供應商、業務夥伴、政府及監管機關、客戶及當地社區。

重要性評估

於報告年度內，本集團特別委任董事會成員、高級管理層、前線僱員、供應商、監管機構及外部顧問透過會議、焦點小組及問卷調查進一步獲得對重大事項及挑戰的見解。經過利益相關者的參與後，作出了重要性評估，以便本集團更好地識別、優選及處理利益相關者認為重要的事宜。重要性評估的結果如下：

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告



Environmental Practices

環境常規

- A1 Energy
能源
- A2 Water
水資源
- A3 Air Emission
廢氣排放
- A4 Waste and Effluent
廢物及污水
- A5 Other Raw Materials Consumption
其他原材料消耗
- A6 Environmental Protection Measures
環境保護措施
- A7 Climate Change
氣候變化

Labour Practices

勞工常規

- B1 Employment
僱傭
- B2 Occupational Health and Safety
職業健康及安全
- B3 Development and Training
發展及培訓
- B4 Labour Standards
勞工準則

Operational Practices

操作常規

- C1 Supply Chain Management
供應鏈管理
- C2 Intellectual Property
知識產權
- C3 Data Protection
資料保護
- C4 Customer Service
客戶服務
- C5 Product/Service Quality
產品／服務質量
- C6 Anti-corruption
反貪污
- C7 Community Investment
社區投資

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

From the matrix, the five most material issues are:

1. Occupational Health and Safety
2. Environmental Protection Measures
3. Product/Service Quality
4. Customer Service
5. Waste and Effluent

During the Reporting Year, stakeholders' interests have continued to maintain a mix of environmental and social topics. Material topics identified closely align with those that management had expected and planned to address as indicated in "Strategies in 2024 and Beyond". Among the most material issues, environmental protection measures and customer service were the two new material topics raised among internal and external stakeholder, compared with the Last Reporting Period.

The Board is committed to closely monitoring the above aspects and will continue to identify areas for improvement. Regular communication and involvement of stakeholders in its decision-making processes is believed to be beneficial for the Group's management and performance on ESG-related risks and strategy.

Stakeholders' Feedback

The Group welcomes stakeholders' feedback on its environmental, social and governance approach and performance. Any stakeholder is welcome to give suggestions or share views with the Group via email at comsec@nuegl.com or newuniverse@prchina.com.hk.

從上表中五大事項為：

1. 職業健康及安全
2. 環境保護措施
3. 產品／服務質量
4. 客戶服務
5. 廢物及污水

報告年度內，利益相關者繼續關注混合環境與社會課題。所確定的重大課題與管理層在《二零二四年及以後的策略》中所預期及規劃的解決課題緊密結合。與上個報告期間相比，在最重要問題之中，環保措施及客戶服務為內部及外部利益相關者所提出之兩個新重要事宜。

董事會致力密切留意以上層面，並將繼續識別需要改善的地方。在決策過程中與利益相關者保持的定期溝通與參，相信能惠及本集團在環境、社會及管治相關風險與策略方面的管理與績效。

利益相關者的意見反饋

本集團歡迎各利益相關者就其環境、社會及管治方針與表現發表意見。任何利益相關人士如欲向本集團提供建議或分享意見，請發電郵至 comsec@nuegl.com 或 newuniverse@prchina.com.hk。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Strategies in 2024 and Beyond

The key ESG strategies of the Group in the upcoming years are as follows:

二零二四年及以後的策略

本集團未來幾年的主要環境、社會及管治策略如下：

Environmental 環境	Emission reduction 減排	<ul style="list-style-type: none"> Explore energy efficiency improvement opportunities 探索提升能源效益的機會 Reduce business travels 減少商務差旅 Retire and replace high energy-consuming mobile machinery and vehicles with variable-frequency drives or vehicles that meet the “National V” standards 使用符合「國五」標準的變頻驅動電機或車輛，淘汰及替代高耗能的移動機械及車輛。 Further investment into better and more efficient incinerator technology 進一步投資更好、更高效的焚燒爐技術
	Resources recovery 資源回收	<ul style="list-style-type: none"> Increase steam recovery and water reuse rate 提高蒸汽回收率及水再利用率 Adopt waste heat recovery in more operations 在更多業務中採用餘熱回收
	Waste reduction 節約用水	<ul style="list-style-type: none"> Comply with national environmental regulations to manage wastes and effluents 遵守管理廢物和廢水的相關國家環境法規
Social 社會	Sense of belonging and work satisfaction 歸屬感與工作滿足感	<ul style="list-style-type: none"> Utilise talents and set practical work targets 發揮人才優勢，制定切實可行的工作目標 Continuously improve the work environment 不斷改善工作環境 Maintain strict rules for rewards and punishment 保持嚴格的獎懲規則 Enhance team building activities, training sessions and encourage employees to obtain professional recognition 加強團隊建設活動、培訓課程，鼓勵員工獲得專業認可
	Occupational health and safety 職業健康安全	<ul style="list-style-type: none"> Continue to identify workplace hazards in order to reduce risks of accidents and exposure to hazards 繼續識別工作場所的危險，以減少事故風險及危險暴露程度 Develop safe, high quality, and environmentally friendly processes and work practices to reduce employees' exposure to hazards 制定安全、優質及環保的流程及工作實踐，以減少員工接觸危險的機會
Governance 管治	Legal compliance 合法合規	<ul style="list-style-type: none"> Continue to provide professional legal training on anti-corruption for all directors, executives and cascade professional knowledge to all employees 繼續為所有董事、行政人員提供反貪污方面的專業法律培訓，並將專業知識傳授給所有員工
	Governing Structure 管治結構	<ul style="list-style-type: none"> Ensure effective governance with the Group's integrated sustainability governance approach 確保以本集團的綜合可持續管治方針進行有效管治

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

The Company expects that achieving such strategies will minimise any unfavourable or unexpected impacts that might be brought about by its operations to the environment, society, and well-being of its employees, to ensure healthy and long-term returns to its shareholders.

本公司預期，藉著該等策略的實踐，本集團將可令其業務營運對環境、社會及僱員身心健康所帶來的任何潛在不利或意外影響減至最低，從而確保為其股東帶來穩健及長期回報。

Management Systems

Beyond the Group's commitment on quality assurance, the Group aspires to deliver world class services with customer satisfaction. The Group has obtained the following international certifications for its operations.

管理體系

除本集團的質量保證承諾外，本集團亦希望提供世界一流的服務，讓客戶滿意。本集團的業務已獲得以下國際認證。

Certifications Obtained

獲取認證

Operations Certified

獲證認公司

GB/T 24001-2016/ISO 14001:
2015 Environmental Management System
GB/T 24001-2016/ISO 14001:2015 環境管理體系

Zhenjiang Sinotech,
Zhenjiang New Universe,
Yancheng NUHF,
Xiangshui NU
鎮江華科、
鎮江新宇、
鹽城新宇輝豐、
響水新宇

GB/T45001-2020/ISO45001:
2018 Health and Safety Management System
GB/T45001-2020/ISO45001:2018 健康及安全管理體系

Zhenjiang Sinotech,
Zhenjiang New Universe,
Yancheng NUHF
鎮江華科、
鎮江新宇、
鹽城新宇輝豐

GB/T19001-2016/ISO 9001:
2015 Quality Management System
GB/T19001-2016/ISO 9001:2015 質量管理體系

Zhenjiang Sinotech,
Zhenjiang New Universe,
Yancheng NUHF,
Xiangshui NU
鎮江華科、
鎮江新宇、
鹽城新宇輝豐、
響水新宇

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Environmental Commitments

Pursuing Environmental Excellence

The Group acknowledges that its operations may pose an impact to the environment. To mitigate its environmental impact, the Group holds itself responsible for the following principles and commitments, awareness, and positioning strategies.

- In principle, the Group is committed to:
 - Implementing appropriate measures to limit the environmental impact of hazardous waste;
 - Promoting sustainable development and ecological protection;
 - Complying with all applicable environmental laws and regulations;
 - Encouraging the research, development, and application of innovative technologies, as to increase waste treatment efficiency and to lower potential risk to human health and the environment;
 - Taking responsibility for its stakeholders, with emphasis towards community; and
 - Establishing win-win measures with authorities, customers, suppliers, and local community, as to cooperate towards sustainable development targets.
- The Group is aware of:
 - Environmental, social, and corporate governance risks, and seeks to reduce any potential adverse effects through an integrated risk management approach;
 - ESG transparency, and is active in disclosing any ESG-related information and data as necessary;
 - Need for continuous improvement, and sets quantifiable targets and monitoring mechanisms to periodically assess its ESG progress;
 - Balance of interests, and takes care to avoid prioritising short-term benefits over long-term sustainable growth; and
 - Company culture, and thus incorporates sustainability as one of the core values of the Group's company culture.

環保承諾

追求卓越環境

本集團知悉，其業務運作可能對環境造成影響。為減輕對環境的影響，本集團在以下原則以及承諾、意識及定位策略方面承擔責任：

- 原則上，本集團致力：
 - 採取適當措施，限制危險廢物對環境的影響；
 - 促進可持續發展及生態保護；
 - 遵守所有適用環境法律及法規；
 - 鼓勵研究、開發及應用創新技術，以提高廢物處理能力，降低對人類健康及環境的潛在風險；
 - 對利益相關者負責，重點是社區；及
 - 與當局、客戶、供應商及當地社區建立雙贏措施，合作實現可持續發展目標。
- 本集團意識到：
 - 環境、社會及企業管治風險，並尋求透過綜合風險管理方法減少任何潛在不利影響；
 - 環境、社會及管治透明度，並於必要時積極披露任何有關環境、社會及管治的資料及數據；
 - 持續改進的必要性，並制定可量化目標及監督機制，定期評估其環境、社會及管治的進展；
 - 利益平衡，並注意避免將短期利益置於長期可持續增長之上；及
 - 公司文化，並因此將可持續發展作為本集團公司文化的核心價值之一。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

- The Group seeks to position itself to:
 - o Lead the waste treatment industry, and to provide comprehensive and environmental solutions;
 - o Develop sustainably, and to find a balance between profits and ESG; and
 - o Expand its customer base nationally, and to raise its competitiveness on the global stage.
- 本集團的定位是：
 - o 引領廢物處理行業，提供全面的環保解決方案；
 - o 可持續發展，在利潤與環境、社會及管治之間尋求平衡；及
 - o 擴大全國客戶基礎，提高在全球舞台上的競爭力。

Through treating hazardous waste, the Group takes a role in lessening the burden of the industrial and medical industry on the environment. Local governments and surrounding communities are assisted by the Group in vigorously handling and treating waste that would otherwise pose threats to the environment. During the Reporting Year, the Group helped treat over 95,000 tonnes of hazardous medical and industrial solid waste, and over 437,000 m³ of wastewater and sludge. Contributing to the alleviation of hazardous waste stress in a responsible way, thus, is how the Group helps reduce environmental impacts.

Having said that, the operations of the Group may still impose risks on the environment or public health if the Group is not rigorous enough in handling such waste. For example, water bodies, lands, and the air may be contaminated if there is leakage of wastewater, air pollutants, chemical or other hazardous wastes. Thus, to minimise the Key Operations' impacts on the environment and natural resources, environmental management objectives and targets are annually updated in accordance with the latest environmental laws and regulations. Implementation of management systems on personnel responsibility on pollution prevention and monitoring system on material environmental factors and activities are also regularly reviewed. Apart from avoiding leakage of hazardous wastes, the Group also actively pays effort in controlling its flue gas emission. It carries out round the clock online measures of its emissions at chimneys and takes immediate action in case the emissions level reaches an alarming level. This minimises the negative impacts that the operations could cause to the environment and makes the emissions far lower than the national standard.

As at the end of the Reporting Year, the Environmental Protection Bureau, China, had licensed the solid waste treatment operations to treat and handle about 39 categories of industrial and medical waste categorised as national hazardous waste. The annual capacity permitted was as follows:

集團藉著處理危險廢物，擔當減輕工業及醫療行業對環境所造成負擔的角色。本集團協助地方政府及週邊社區嚴格處理及處置會對環境造成威脅的廢物。於報告年度內，本集團協助處理超過95,000噸的危險醫療及工業固體廢物，以及超過437,000立方米的廢水及污泥。因此，以負責任的方式在緩解危險廢物壓力方面作出貢獻，是本集團幫助降低環境影響的方法。

然而，倘本集團在處理廢物時未夠嚴格，則本集團的業務仍可能對環境或公共健康帶來風險。例如，倘廢水、空氣污染物、化學或其他危險廢物洩漏，水體、土地及空氣可能會被污染。因此，為盡量減低主要業務運作對環境及天然資源的影響，本集團每年根據最新的環保法律及規例更新其環境管理宗旨及目標，並定期檢討人員防止污染責任管理體系及重大環境因素及活動監測系統的執行情況。除避免危險廢物洩漏外，本集團亦積極努力控制煙氣的排放。本集團進行全天候在線測量煙囪的廢氣排放量，並在排放量達到警誡水平的情況下即時採取行動。此舉減低制營運可能對環境造成的不利影響，並使本集團的排放量遠低於國家標準。

於報告年度末，中國環境保護部頒發固定廢物處理的經營許可證，可處置及處理約39種歸類為國家危險廢物類別的工業及醫療廢物。本集團獲許可的年處置能力如下：

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

	2023 二零二三年	2022 二零二二年	2021 二零二一年
Valid operating permission licences at the end of the reporting year: 於報告年度末的有效經營許可證：	Annualised capacity (tonnes) 年度化處置能力(噸)		
Regulated medical hazardous waste HW01 (detoxification) 受規管醫療危險廢物HW01(無害化)	3,300	3,300	3,300
Regulated medical hazardous waste HW01 (incineration) 受規管醫療危險廢物HW01(焚燒)	10,490 [^]	6,080	6,080
Hazardous waste HW02 to HW49 (incineration) 危險廢物HW02至HW49(焚燒)	135,400	135,400	135,400

[^] Incineration capacity for HW01 has increased in 2023 due to additional valid operating permission license for Suqian New Universe

[^] 由於宿遷宇新已新增有效的營運許可證，於二零二三年HW01的焚燒能力有所提升

Environmental Strategies and Targets

Emission Reduction

The Key Operations continuously set out strategies to control emissions. The three main approaches are: replacing high-emitting fuel and vehicles with less-emitting ones, upgrading existing facilities to minimise fugitive emissions, and reducing travels.

環境策略及目標

減排

主要業務運作不斷制定控制排放的策略。三個主要辦法是：用排放較少的燃料及車輛取代高排放燃料及車輛，升級現有設施以儘量減少散逸性排放，以及減少出差。

Energy Generation

- Adopt solar energy for public facilities at the Eco-Plating Specialised Zone
- Adopt cleaner fuel, such as natural gas, to replace conventional fossil fuel*
- Extend energy recovery practices to electricity

能源發電

- 在環保電鍍專區的公共設施採納太陽能
- 採用天然氣等更清潔的燃料代替傳統的化石燃料*
- 將能源回收做法推廣到電力領域

Motor Vehicles

- Consider parameters such as vehicle emission standards, fuel efficiency, and cost effectiveness for vehicles procured
- Gradually retire National III and IV standard vehicles, and replace with National V vehicles
- Gradually phase out diesel forklifts and shift to the use of electric forklifts

機動車輛

- 當採購車輛時，考慮車輛廢氣排放標準、燃油效率及成本效益等參數
- 國三、國四標準車輛逐步退役，改用國五車輛
- 逐步淘汰柴油叉車，轉而使用電動叉車

* Xiangshui NU has not switched to natural gas, due to a lack of accessibility to the resource.

* 響水新宇尚未改用天然氣，因無法獲得有關資源。

Facilities Upgrade

- Consider the environmental impacts of different incinerator designs
- Enhance electricity efficiency through technological investment and application

設施升級

- 考慮不同焚燒爐設計對環境的影響
- 透過技術投資及應用提高電力效率

Transporting and Travelling

- Source and procure locally
- Select proper transporting vehicles and tools, and unloading location and method to prevent secondary handling
- Replace business air travel by tele- or video conferencing when possible, and consider alternatives, such as trains and high-speed rail

運輸及差旅

- 當地採購
- 選擇合適運輸車輛和工具，正確選擇卸貨地點和方法，防止二次搬運
- 在可能的情况下，以電話或視頻會議取代商務航空差旅，並考慮火車及高鐵等替代方式



Figure 2 VOC treatment facility for reducing fugitive emissions at Xiangshui NU

圖2 響水新宇有機化合物處理設施，以減少散逸性排放

Since January 2012, Zhenjiang Sinotech has signed a solar power supply contract with a solar power supplier to provide on-site area for installation of photovoltaic panels and purchase solar energy generated for public facilities at the Eco-Plating Specialised Zone. The solar energy was used to power up public lightings, firefighting systems and the lifts at the Eco-Plating Specialised Zone. During the Reporting Year, 707,014 kWh of solar energy was purchased by Zhenjiang Sinotech, which accounted for 27% of its total electricity consumption.

自二零一二年一月以來，鎮江華科與一家太陽能供應商簽訂太陽能供電合同，提供現場安裝光伏板，並購買所產生的太陽能用於環保電鍍專區的公共設施。太陽能用作環保電鍍專區的公共照明、消防系統和電梯供電。在報告年度，鎮江華科購買707,014千瓦時太陽能，佔總耗電量27%。



Figure 3 Solar panels installed on-site at the Eco-Plating Specialised Zone
圖3 環保電鍍專區的現場安裝太陽能板

Apart from the previously set emission reduction target from steam recovery, a target on solar energy consumption had also been set by Zhenjiang Sinotech during the Last Reporting Period. Suqian New Universe had also set a target to reduce concentration of the air emissions of nitrogen oxides (“ NO_x ”), sulphur dioxide (“ SO_2 ”) and respiratory suspended particles (otherwise known as particulate matter, “ PM ”) during the Last Reporting Period.

除過往設定的蒸汽回收減排目標外，鎮江華科在上個報告年度亦設定太陽能消耗目標。於上個報告年度，宿遷宇新亦設定降低氮氧化物（「氮氧化物」）、二氧化硫（「二氧化硫」）及可吸入懸浮顆粒（亦稱為懸浮顆粒，「懸浮顆粒」）的廢氣排放濃度的目標。

In addition, the Key Operations had also set the following targets during the Last Reporting Period:

此外，主要業務運作於上個報告期間亦設定以下目標：

- Achieve 37% non-GHG air emissions reduction at Yancheng NUHF², using financial year 2022 as baseline data.

- 以二零二二財政年度為基線數據，使鹽城新宇輝豐的非溫室氣體排放量減少37%²。

² The Group’s original wording is to reduce annual non-GHG air emissions at Yancheng NUHF from 22.29 tonnes to 13.976 tonnes. Since Yancheng NUHF does not produce this amount of non-GHG air emissions, this target is converted to a percentage reduction, which is equivalent to 37% reduction in non-GHG air emissions.

² 本集團的原定目標是將鹽城新宇輝豐的非溫室氣體年排放量從22.29噸減少至13.976噸。由於鹽城新宇輝豐的非溫室氣體排放量並無達到該水平，因此將目標轉換為減排百分比，相當於減少37%的非溫室氣體排放量。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

The following targets have been reviewed by the Board and the management. 董事會及管理層已審閱下列目標。

TARGET INDICATOR 目標指標	BASELINE 基準線	TARGET 目標	2023 PROGRESS REVIEW 二零二三年進度檢討	TARGET STATUS 目標狀況
ENERGY GENERATED FROM STEAM RECOVERY 蒸汽回收所產生能量		Generate 1,800,000 kWh of energy from steam recovery at Zhenjiang New Universe to reduce GHG emission 鎮江新宇從回收蒸汽產生1,800,000千瓦時能源，減少排放溫室氣體	Generated 1,675,236 kWh of energy from steam recovery at Zhenjiang New Universe in 2023 鎮江新宇於二零二三年從回收蒸汽產生1,675,236千瓦時能源	Missed for 2023, due to machine failure of steam recovery equipment, resulting in 4 months of deactivation 未能於二零二三年達成，原因是蒸汽回收設備機器故障，導致停用4個月
SOLAR ENERGY CONSUMPTION 太陽能消耗量	N/A, based on yearly data not applicable, based on yearly data	Purchase 500,000 kWh of solar energy each year to reduce Scope 2 indirect energy emissions. 每年購買500,000千瓦時太陽能，以減少範圍2的間接能源排放。	Purchased 707,014 kWh of solar energy in 2023 於二零二三年購買707,014千瓦時太陽能	Achieved for 2023 於二零二三年達成
AIR EMISSION CONCENTRATION 廢氣排放濃度		Achieve a more stringent air emission concentrations of the emissions of NO _x (200 mg/m ³), SO ₂ (50 mg/m ³) and PM (15 mg/m ³) than the statutory requirement in Suqian New Universe in 2023. 於二零二三年達到比宿遷新宇新法定要求更嚴格的氮氧化物(200毫克/立方米)、二氧化硫(50毫克/立方米)及懸浮顆粒(15毫克/立方米)的廢氣排放濃度。	Suqian New Universe recorded air emissions concentrations of 110 mg/m ³ of NO _x , 8 mg/m ³ of SO ₂ , and 4 mg/m ³ of PM in 2023, all below statutory requirement 宿遷新宇於二零二三年的廢氣排放濃度為氮氧化物(110毫克/立方米)、二氧化硫(8毫克/立方米)及懸浮顆粒(4毫克/立方米)，均低於法定要求。	Achieved for 2023 於二零二三年達成
NON-GHG AIR EMISSION 非溫室氣體排放量	2,214.87 kg (Baseline data in 2022) 2,214.87 千克 (二零二二年基線數據)	Achieve 37% non-GHG air emissions reduction at Yancheng NUHF 鹽城新宇輝豐達到非溫室氣體排放量減少37%	The Group generated 527.52 kg of non-GHG air emissions at Yancheng NUHF during the Reporting Year, or a 76% reduction 本集團於報告年度內在鹽城新宇輝豐的非溫室氣體排放量為527.52 千克，減少76%。	Achieved for 2023 於二零二三年達成

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Waste Handling and Reduction

The Key Operations continue to adopt various measure in order to properly handle and reduce waste.

廢物處理及減排

主要業務運作繼續採取各種措施，以妥善處理及減廢。

Hazardous Waste

- Collects, stores, and handles waste by their categories to ensure that there is no cross contamination
- 3 core principles to reduce waste: source reduction, toxicity elimination, and recycling

危險廢物

- 按類別收集、儲存及處理廢物，以確保杜絕交叉污染
- 減少廢物的3個核心原則：源頭減廢、毒性消除及循環利用

Non-hazardous Waste

- Encourages duplex printing, and wastepaper and cardboards recycling
- Enterprise Resource Planning (ERP) system in place to improve management quality and work efficiency, so that paper waste is only generated when necessary
- Promotes the “Clear Your Plate” Campaign to reduce food waste, and provides reusable stainless-steel cutlery and utensils in staff canteen
- Partners with other companies to discuss on filters and packaging materials reuse possibilities

非危險廢物

- 鼓勵雙面打印，回收利用廢紙與紙板
- 設置企業資源規劃(ERP)系統，以提高管理質素及工作效率，致使僅於有需要時才產生廢紙
- 推廣「光盤」運動，減少浪費食物，並在員工食堂提供可重複使用的不銹鋼餐具
- 與其他公司合作，研究再利用過濾及包裝物料的可能性

To further reduce waste generation, the Key Operations had set relevant targets depending on their capabilities as tracked against performance data during the financial year 2021. These targets included:

- Achieve 5% hazardous waste reduction at Zhenjiang New Universe by 2022;
- Achieve 20% solid waste reduction at the Eco-Plating Specialised Zone by 2023; and
- Achieve 15% paper consumption reduction at Yancheng NUHF by 2024.

為進一步減少廢物產生，主要業務運作根據其能力已制定相關目標，並與二零二一年財政年度的績效數據進行追蹤。該等目標包括：

- 二零二二年或之前在鎮江新宇實現危險廢物減少5%；
- 二零二三年或之前在環保電鍍專區實現減少固體廢物20%；及
- 二零二四年或之前在鹽城新宇輝豐實現紙張用量減少15%。

The Group had originally missed its target of achieving 5% hazardous waste reduction at Zhenjiang New Universe by 2022; as such, the Group had adjusted its target to achieving 5% hazardous waste reduction at Zhenjiang New Universe without any specific timeframe during the Last Reporting Period.

本集團原本未能於二零二二年前達成鎮江新宇減少5%危險廢物的目標，因此於上個報告期間，本集團將目標調整為達成鎮江新宇減少5%危險廢物，並未設定具體時限。

In addition, the Key Operations had also set the following targets during the Last Reporting Period:

此外，主要業務運作於上個報告期間亦設定以下目標：

- Reduce pollutants within wastewater discharge at Zhenjiang Sinotech by 34%³, using financial year 2022 as baseline data.

- 以二零二二財政年度為基線數據，使鎮江華科的廢水排放中的污染物減少34%³。

³ The Group's original wording is to reduce pollutants within wastewater discharge at Zhenjiang Sinotech to 30.75 tonnes, based on the assumption of 500,000 tonnes of wastewater discharge annually at statutory requirements. Since this would equate to 46.9 tonnes of pollutants, a reduction to 30.75 tonnes of wastewater pollutants is equivalent to 34% reduction in wastewater pollutants.

³ 本集團的原定目標是將鎮江華科的廢水排放中的污染物減少至30.75噸，此乃基於每年500,000噸廢水的法定排放量所作的假設。由於此相當於46.9噸污染物，將廢水污染物減少至30.75噸相當於減少34%的廢水污染物。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

During the Reporting Year, the following targets have been reviewed by the Board and the management. 於報告年度內，董事會及管理層已審閱下列目標：

TARGET INDICATOR 目標指標	BASELINE 基準線	TARGET 目標	PROGRESS REVIEW 進度檢討	TARGET STATUS 目標狀況
HAZARDOUS WASTE GENERATION 危險廢物產量	6,381.41 tonnes (Baseline data in 2021) 6,381.41噸(二零二一年基線數據)	Achieve 5% hazardous waste reduction at Zhenjiang New Universe 鎮江新宇實現危險廢物減排5%	The hazardous waste generated during the Reporting Year was 7,126.72 tonnes, which increased by 12% when compared to baseline data 報告年度內產生的危險廢物為7,126.72噸，與基線數據相比增加12%。	Not achieved due to an increased treatment volume and change of composition of the wastes treated 由於處理量的增加及所處理廢物成分改變而未能達成
SOLID WASTE GENERATION 固體廢物產量	6,309.78 tonnes (Baseline data in 2021) 6,309.78噸(二零二一年基線數據)	Achieve 20% solid waste reduction ⁴ at the Eco-Plating Specialised Zone by 2023 環保電鍍專區於二零二三年或之前實現固體廢物減排20% ⁴	Solid waste generation reduced by 35% during the Reporting Year when compared to baseline data 與基線數據相比，於報告年度固體廢物產量減少35%	First achieved in 2022; 於二零二二年首次達成； Achieved again in 2023 於二零二三年再次達成
PAPER CONSUMPTION 紙張用量	578.84 kg (Baseline data in 2021) 578.84千克(二零二一年基線數據)	Achieve 15% paper consumption reduction at Yancheng NUHF by 2024 鹽城新宇輝豐於二零二四年或之前實現紙張用量減少15%	Paper consumption reduced by 18% during the Reporting Year when compared to baseline data 與基線數據相比，紙張用量於報告年度減少18%	Achieved in 2023 於二零二三年達成
WASTEWATER POLLUTANTS 廢水污染物	10.54 tonnes (Baseline data in 2022) 10.54噸(二零二二年基線數據)	Reduce pollutants within wastewater discharge at Zhenjiang Sinotech by 34% 鎮江華科的廢水排放中的污染物減少34%	The Group generated 6.68 tonnes of wastewater pollutants at Zhenjiang Sinotech during the Reporting Year, or a 37% reduction 本集團於報告年度內在鎮江華科產生的廢水污染物為6.68噸，減少37%。	Achieved in 2023 於二零二三年達成

⁴ The solid waste at the Eco-Plating Specialised Zone within this target refers to the sludge generation.

⁴ 本目標所述之環保電鍍專區固體廢物指污泥產量。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

In general, the targets have all been achieved except for the hazardous waste generation target set by Zhenjiang New Universe. The reason for not achieving the target was mainly due to the increased treatment volume and the change of composition of the wastes treated. They both contributed to an increase of hazardous waste generated by Zhenjiang New Universe during the Reporting Year when compared to baseline data. However, Zhenjiang New Universe has managed to slightly decrease its hazardous waste generation by 6% when compared to the Last Reporting Period.

Energy Use Efficiency

The Key Operations of the Group regularly promote energy-saving initiatives throughout operating areas, enforcing good practices in terms of maintenance of plants and equipment for better efficiency and productivity. The principles of reduction, replacement, and recovery are upheld for efficiency improvement.

總括而言，除了鎮江新宇設定的危險廢物產生量目標，其他目標都已經達成。並未達成目標的原因主要是由於處理量的增加及所處理廢物成分改變。與基線數據相比，這兩方面均導致鎮江新宇在報告年度內產生的危險廢物增加。然而，鎮江新宇的危險廢物產生量與上個報告期間相比略減6%。

能源使用效率

本集團的主要業務運作定期於整個營運區域推廣節能措施，致力為機械及設備進行日常保養，從而提高效率及生產力。堅持減少、替換、回收的原則為改善效益。

Reduction

- Informatisation to assess, evaluate, manage, and control energy use and reduce wastage
- Installation of variable-frequency drives in motors for energy efficiency
- Control of air conditioning temperature during different season
- Use of double effect evaporators, which allow boiling point to decrease, reducing steam and electricity consumption

減少

- 用信息化手段評估、評價、管理及控制能源使用情況，減少浪費
- 在電動機安裝變頻器，提高能源效率
- 控制不同季節的空調溫度
- 使用雙效蒸發器，降低沸點，減少蒸汽與電力消耗

Replacement

- Gradually retire National III and IV standard vehicles and replace with National V vehicles
- Priority for energy efficient and low environmental footprint electronic and electric equipment

替換

- 國三、國四標準車輛逐步退役，改用國五車輛
- 優先考慮高能源效益及低環境足跡的電子及電氣設備

Recovery

- Explore further energy recovery opportunities with reference to national standards
- Utilise waste oil collected for combustion*
- Residue heat recovery for wheel dehumidifier, double effect evaporators, cleaning, deaerator, and selling

回收

- 參照國家標準，進一步探索能源回收的機會
- 利用收集的廢棄油脂進行燃燒*
- 餘熱回收用於輪式除濕機、雙效蒸發器、清洗、除氧器及銷售

The Key Operations focused on enhancing energy recovery in its operation and had therefore set the following targets in previous years:

主要業務運作的工作重點是加強其業務中的能源回收，因此已於過往年度制定以下目標：

- Generate 1,800,000 kWh of energy from steam recovery at Zhenjiang New Universe annually⁵; and
- Achieve 60% of steam transportation efficiency rate for steam supplying to neighbouring companies at Yancheng NUHF by 2024.

- 每年在鎮江新宇通過蒸汽回收產生1,800,000千瓦時的能源⁵；及
- 二零二四年或之前，在鹽城新宇輝豐向鄰近公司供應蒸汽時實現60%的蒸汽傳輸效率。

* Applicable to Xiangshui NU only

* 僅適用於響水新宇

⁵ The target was set based on the treatment volume of Zhenjiang New Universe during the financial year 2021.

⁵ 該目標乃根據二零二一年財政年度內鎮江新宇的處理量而定。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

In addition, the Key Operations had also set the following targets during the Last Reporting Period:

- Achieve 5% energy consumption reduction at Zhenjiang Sinotech by 2032, using financial year 2022 as baseline data.

此外，主要業務運作於上個報告期間亦設定以下目標：

- 以二零二二財政年度為基線數據，於二零三二年或之前使鎮江華科的能源消耗量降低5%。

During the Reporting Year, the following targets have been reviewed by the Board and the management.

於報告年度內，董事會及管理層已審閱下列目標：

TARGET INDICATOR 目標指標	BASELINE 基準線	TARGET 目標	PROGRESS REVIEW 進度檢討	TARGET STATUS 目標狀況
ENERGY GENERATED FROM STEAM RECOVERY 蒸汽回收發電	N/A 不適用	Generate 1,800,000 kWh of energy from steam recovery at Zhenjiang New Universe to reduce GHG emission 鎮江新宇從蒸汽回收產生1,800,000千瓦時的能源以減低溫室氣體排放	Generated 1,675,236 kWh of energy from steam recovery at Zhenjiang New Universe in 2023 鎮江新宇於二零二三年從回收蒸汽產生1,675,236千瓦時能源	Missed for 2023, due to machine failure of steam recovery equipment, resulting in 4 months of deactivation 未能於二零二三年達成，原因是蒸汽回收設備機器故障，導致停用4個月
STEAM TRANSPORTATION EFFICIENCY 蒸汽輸送效率	N/A 不適用	Achieve 60% of steam transportation efficiency rate for steam supplying to neighbouring companies at Yancheng NUHF by 2024 鹽城新宇輝豐於二零二四年或之前將蒸汽供應鄰近公司的蒸汽輸送效率達到60%	Achieved 72% of steam transportation efficiency rate during the Reporting Year 於報告年度內達成72%蒸汽輸送效率	Achieved for 2023, Yancheng NUHF will strive to achieve a higher efficiency rate by 2024 於二零二三年達成，鹽城新宇輝豐將於二零二四年努力實現更高效率
ENERGY CONSUMPTION 能源消耗	1,908,458 kWh 1,908,458 千瓦時	Achieve 5% energy consumption reduction at Zhenjiang Sinotech by 2032 鎮江華科於二零三二年或之前實現能源消耗量降低5%	Energy consumption increased by 1% at Zhenjiang Sinotech during the Reporting Year 鎮江華科於報告年度內的能源消耗量增加1%	To be reviewed in the next reporting year 將於下個報告年度進行審閱

The energy consumption target of Zhenjiang Sinotech has lagged behind progress due to a higher treatment volume during the Reporting Year. Zhenjiang Sinotech will continue to review the performance and discuss the necessity for adjusting the target in the next reporting year.

由於報告年度處理量增加，鎮江華科的能源消耗目標落後進度。鎮江華科將在下個報告年度繼續審查能源消耗表現並討論調整目標的必要性。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Water Use Efficiency

Water was mainly supplied by private water supply companies or industrial parks where the Key Operations of the Group are situated. There was no issue in sourcing water fit for purpose. Even though some of the Key Operations are situated in saline-alkaline areas, groundwater that comes from industrial parks' upper streams must first be treated to ensure compliance with standards before being used in the Key Operations. The Key Operations have provided clear instructions on water saving practice and shall continue to enforce water conservation measures in every major aspect in operations.

At all operations, water is reused whenever possible to maintain efficiency. For example, water used for cooling, steaming, and spraying would be recycled or recollected for repeated usage across facilities to help reduce freshwater consumption. Employees of the Group are also reminded to adopt water-saving practices. As stipulated in the latest environmental impact assessment, Zhenjiang Sinotech will reuse at least 30% of water to enhance water use efficiency and reduce wastage throughout all operation.

水資源使用效率

水主要由私營供水公司或本集團主要業務運作所在的工業園提供。並無求取適用水源的問題。儘管若干主要業務運作位於鹽鹼地，但來自工業園上游的地下水必須先經過處理，以確保符合標準，方能用於主要業務運作。主要業務運作已提供清晰的指示如何實踐節約用水，並將繼續於每個主要的營運環節落實節水措施。

所有業務盡可能重覆使用水資源以維持效率。例如，用於冷卻、蒸汽及噴灑的水會回收或再收集供不同設施重覆使用，以助減少消耗食水。本集團亦提醒僱員實踐節約用水理念。如最近的環境影響評估，鎮江華科將重用最少30%用水，以增強水資源使用效率，並減少所有業務產生的廢水。



Figure 4 Water reuse system in Zhenjiang Sinotech

圖4 鎮江華科的水再利用系統

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

With the existing production facilities remain unchanged, Zhenjiang New Universe has set a target in 2021 to achieve a 20% reduction on water consumption by 2026, with 2021 as the base year. During the Last Reporting Period, Zhenjiang Sinotech had also set a new target on water consumption reduction. In addition, Yancheng NUHF had set a 15% water reuse rate target for 2023 during the Last Reporting Period.

在現有的生產設施維持不變的情況下，鎮江新宇於二零二一年定下的目標是在二零二六年或之前實現水資源消耗減少20%（以二零二一年為基準年）。於上個報告年度，鎮江華科亦在減少耗水方面定下新目標。此外，於上個報告期間內，鹽城新宇輝豐已為二零二三年設定15%的水再利用率目標。

TARGET INDICATOR 目標指標	BASELINE 基準線	TARGET 目標	PROGRESS REVIEW 進度檢討	TARGET STATUS 目標狀況
WATER CONSUMPTION 水資源消耗量	122,375 m ³ (Baseline data in 2021) 122,375立方米 (二零二一年基準數據)	Achieve a 20% reduction on water consumption in Zhenjiang New Universe by 2026 鎮江新宇於二零二六年或之前實現水資源消耗量減少20%	Water consumption decreased by 12% in Zhenjiang New Universe during the Reporting Year 鎮江新宇於報告年度內水資源消耗量減少12%	In progress 進行中
WATER CONSUMPTION 水資源消耗量	274,690 m ³ (Baseline data in 2022) 274,690立方米 (二零二二年基準數據)	Achieve a 5% reduction on water consumption in Zhenjiang Sinotech 鎮江華科實現水資源消耗量減少5%	Water consumption increased by 124% in Zhenjiang Sinotech during the Reporting Year, mainly due to higher treatment volume 鎮江華科於報告年度內的水資源消耗量增加124%，主要原因是處理量增加。	To be reviewed in the next reporting year 將於下個報告年度進行審閱
WATER REUSE 水再利用	N/A 不適用	Achieve a 15% water reuse rate in Yancheng NUHF by 2023 鹽城新宇輝豐於二零二三年或之前實現水再利用率達到15%	Yancheng NUHF had a 46% water reuse rate during the Reporting Year. 鹽城新宇輝豐於報告年度內的水再利用率為46%。	Achieved for 2023 於二零二三年達成

The above targets have been reviewed by the Board and the management. The water consumption target of Zhenjiang New Universe is currently on track to be achieved by 2026. However, the water consumption target of Zhenjiang Sinotech has lagged behind progress due to a higher treatment volume during the Reporting Year. Zhenjiang Sinotech will continue to review the performance and discuss the necessity for adjusting the target in the next reporting year.

上述目標已經董事會及管理層審閱。鎮江新宇的耗水目標正按計劃於二零二六年實現。然而，鎮江華科於報告年度內處理量增加而落後於進度。鎮江華科將繼續檢討績效，並於下個報告年討論調整目標的需要。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Key Achievements in 2023

With the Group's proactive approach to environmental protection, bolstered by the PRC government's tightened environmental requirements, the Group has made significant improvements in the Key Operations during the Reporting Year:

二零二三年的主要成就

在中國政府收緊環保規定的支持下，本集團採取積極的環保措施，本集團於報告年度在主要業務運作方面取得重大改善：

Emission reduction 減排	<ul style="list-style-type: none"> - Enhanced fugitive emission collection through negative or increased speed of suction collection for emission treatment 通過負壓的或增加排放處理的抽吸速度，以加強散逸性排放的收集 - Improved VOC and smoke concentration monitoring program and measuring scale to enhance accuracy of emission concentration monitoring 改進揮發性有機化合物及煙塵濃度監測程序及測量尺度，提高排放濃度監測的準確性 - Implemented wet electrostatic precipitator to reduce dust and pollutants in emitted gas 引進濕式靜電除塵器，減少排放氣體中的灰塵及污染物 - Established an air curtain and automatic roller shutters at the warehouses to reduce leakage of fugitive emissions 在倉庫設立氣幕及自動捲簾，以減少散逸性排放物的洩漏
Improve wastewater discharge quality 改善廢水排放質量	<ul style="list-style-type: none"> - Installed linkage system with the local government at discharge valve for monitoring rainwater discharge 在排放閘門安裝與當地政府聯動的系統，以監測雨水排放 - Installed mixed sampling equipment for regular sampling of wastewater discharge by local government 安裝混合取樣設備，供當地政府定期對排放廢水進行取樣 - Retrofitted the rainwater drainage network to reduce overflow and avoid contamination 改造雨水排水管網，以減少溢流及避免污染 - Completed second phase of retrofit-operate-transfer ("ROT") upgrades at Zhenjiang Sinotech, allowing for increased wastewater treatment capacity to 10,000 tonnes/day, as well as significantly reduced wastewater pollutants concentration 完成鎮江華科的第二階段改造—營運—移交升級，將廢水處理能力提高至10,000噸/日，並顯著降低廢水污染物濃度
Energy reduction 減少能耗	<ul style="list-style-type: none"> - Cooperated with solar energy supplier by providing suitable area on-site for solar panels installation at the Eco-Plating Specialised Zone 與太陽能供應商合作，在環保電鍍專區提供合適區域現場安裝太陽能電池板 - Purchased 707,014 kWh of solar energy for powering the public facilities at the Eco-Plating Specialised Zone 購買707,014千瓦時的太陽能，為環保電鍍專區的公共設施供電 - Around 26,400 tonnes of steam recovered and used on-site during the Reporting Year 於報告年度內，回收及現場使用約26,400噸蒸汽 - Around 51,200 tonnes of steam recovered sold to neighbouring company during the Reporting Year 於報告年度內，回收約51,200噸蒸汽售予鄰近公司 - Retrofitted the circulating water pump to reduce energy consumption 改造循環水泵以減少能源消耗 - Improved the steam transportation system to reduce unnecessary energy consumption 改進蒸汽輸送系統，減少不必要的能源消耗
Water reuse 水再利用	<ul style="list-style-type: none"> - Achieved zero discharge by reusing treated rainwater in Xiangshui NU 響水新宇通過重用處理過的雨水，實現零排放
Waste reduction 減少水耗	<ul style="list-style-type: none"> - Installing the low-temperature sludge dehydration equipment to reduce water content of sludge and hence the sludge generation amount 安裝低溫污泥脫水設備，以減少污泥的含水量，從而減少污泥的產生量



Figure 5 Low-temperature sludge dehydration equipment at Zhenjiang Sinotech

圖5 鎮江華科低溫污泥脫水設備

Among the Key Operations, Zhenjiang Sinotech, Zhenjiang New Universe, Yancheng NUHF, and Xiangshui NU were accredited with the GB/T 24001-2016/ISO 14001:2015 Environmental Management System.

在主要業務運作中，鎮江華科、鎮江新宇、鹽城新宇輝豐及響水新宇新通過GB/T 24001-2016/ISO 14001:2015環境管理體系認證。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Emissions

During the Reporting Year, the Group did not note any cases of material non-compliance relating to air and greenhouse gas (“GHG”) emissions, discharge into water and land, and the generation of hazardous and non-hazardous waste as required by the applicable laws and regulations. The Group adopts environmental management system and strictly complies with national and local laws and regulations related to environmental protection and pollution control, including but not limited to the following:

- Environmental Protection Law of the PRC
- Air Pollution Prevention and Control Law of the PRC
- Water Pollution Prevention and Control Law of the PRC
- Law of the PRC on Prevention and Control of Environmental Pollution by Solid Wastes
- Law of the PRC on Prevention and Control of Pollution by Environmental Noise
- Standard for Pollution Control on Hazardous Waste Incineration (GB 18484-2020)
- Standard for Pollution Control on Hazardous Waste Storage (GB18597-2023)
- Standard for Pollution Control on Hazardous Waste Landfill (GB 18598)
- Integrated wastewater discharge standard (GB 8978)
- Emission Standard for Industrial Enterprises Noise at Boundary (GB 12348)
- Emission Standard of Pollutants for Electroplating (GB 21900-2008) Table 3
- Medical Waste Disposal Pollution Control Standard (GB39707-2020)
- Technical Specification for Setting Identification Signs of Hazardous Waste (HJ1276-2022)

The 14th Five Year Plan (2021-2025) for National Work Plan for the Assessment of Standardised Environmental Management of Hazardous Waste (the “Plan”) was implemented during the Last Reporting Period. The Group has formulated internal guidelines for aligning its internal measures with the Plan.

排放物

於報告年度內，按照適用法律及規例的規定，本集團並無發現任何有關廢氣及溫室氣體（「溫室氣體」）排放、向水及土地的排污及有害及非危險廢物的產生的重大違規情況。本集團採納環境管理制度，並嚴格遵守國家及地方有關環境保護及污染控制的法律及規例，包括但不限於下列各項：

- 中國環境保護法
- 中國大氣污染防治法
- 中國水污染防治法
- 中國固體廢物污染環境防治法
- 中國環境噪聲污染防治法
- 危險廢物焚燒污染控制標準(GB 18484-2020)
- 危險廢物貯存污染控制標準(GB18597-2023)
- 危險廢物填埋污染控制標準(GB 18598)
- 廢水綜合排放標準(GB 8978)
- 工業企業廠界環境噪聲排放標準(GB 12348)
- 電鍍污染物排放標準(GB 21900-2008)表3
- 醫療廢物處理處置污染控制標準(GB39707-2020)
- 危險廢物識別標誌設置技術規範(HJ1276-2022)

《十四五（二零二一年至二零二五年）全國危險廢物規範化環境管理評估工作方案（「該方案」）》已於上個報告期間實施。本集團已經制定內部準則，使其內部措施與該方案保持一致。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

To monitor the impacts of activities on the environment and natural resources, the Key Operations of the Group regularly engage qualified professionals to conduct environmental assessment and provide monitoring reports. Data measured include, surface water quality, groundwater quality, drinking water quality, soil quality, waste gas emission, wastewater discharge, residue content from incineration, and noise pollution, to ensure compliance with standards and emission limits.

Types of Emissions

During the Reporting Year, nitrogen oxides (“NO_x”), sulphur oxides (“SO_x”), and particulate matter (“PM”) were emitted from incinerators that consumed natural gas and Group-owned vehicles that consumed petrol and diesel (such as passenger cars, light goods vehicles, and other mobile machinery). The Group will continue taking steps in further decreasing the dependence on fossil fuels and reduce air emissions.

為監測業務對環境及天然資源造成的影響，本集團的主要業務運作定期聘請合資格專業人士進行環境評估及提交監測報告。測量的數據包括地表水質、地下水水質、飲用水水質、土壤質素、廢氣排放量、廢水排放量、焚燒殘渣成份及噪音污染量，以確保符合標準及排放限值。

排放物的種類

於報告年度內，消耗天然氣的焚燒設施及集團消耗汽油及柴油的自有車輛（例如載客車輛、輕型貨車及其他移動機械）排放出氮氧化物、硫氧化物及可吸入懸浮顆粒。本集團將繼續採取步驟進一步減低對化石燃料的依賴及減少廢氣排放。

	2023 二零二三年	2022 二零二二年	2021 二零二一年
	Emissions (kg) 排放量(千克)		
NO_x 氮氧化物	1,231	3,201	2,621
Gaseous fuel consumption 氣體燃料消耗	110	193	237
Vehicle operation 車輛運行	1,121	3,008	2,384
SO_x 硫氧化物	7	10	8
Gaseous fuel consumption 氣體燃料消耗	1	1	1
Vehicle operation 車輛運行	6	9	7
PM 懸浮顆粒	108	285	120

Greenhouse Gas Emissions

While the scale of the Key Operations continues to expand gradually, the Group is establishing better channels to collect, trace, and monitor the total amount of GHG emission emitted. During the Reporting Year, 17,248 tonnes of carbon dioxide equivalent (“tCO₂e”), which included carbon dioxide, methane, nitrous oxide, and hydrofluorocarbons, was emitted. The intensity was 0.06 tCO₂e/m², or 37 tCO₂e/employee.

溫室氣體排放

因應主要業務運作的規模持續逐漸擴張，本集團正在構建更完善的渠道以採集、追蹤及監察溫室氣體的總排放量。於報告年度內，包括二氧化碳、甲烷、氧化亞氮及氫氟化合物等的排放量為17,248噸二氧化碳當量，而排放強度為每平方米0.06噸二氧化碳當量，或每名僱員37噸二氧化碳當量。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

		2023 二零二三年	2022 二零二二年	2021 二零二一年	
		Emissions (tCO ₂ e) ¹ 排放量(噸二氧化碳當量) ¹			
Scope 1 Direct Emission 範圍1 直接排放	Combustion of fuel for stationary source ² 固定源的燃料燃燒 ²	Natural Gas 天然氣	1,426	2,755	3,386
		Diesel 柴油	1,223	917	3,676
		LPG 液化石油氣	2	/	/
	Combustion of fuel for mobile sources 流動源的燃料燃燒	Fuel oil 燃油	/	1,994	2,063
		Diesel 柴油	989	1,439	1,003
		Petrol 汽油	87	149	174
		Refrigerants and fire extinguishing agents 製冷劑及滅火劑	<1	/	21
Assimilation of CO ₂ through tree planting 植樹吸收二氧化碳	/	/	/		
Scope 2 Indirect Emission⁴ 範圍2 間接排放 ⁴	Purchased electricity ³ 外購電力 ³	13,101	15,472	19,352	
Scope 3 Other Indirect Emission 範圍3 其他間接排放	Electricity used for processing fresh water and wastewater by third parties 第三方處理食水及廢水所用電力	408	332	287	
	Business air travel 商務航空差旅	4	19 ⁵	2	
	Paper waste disposed at landfills 在填埋場棄置的廢紙	7	9	10	
Total 總計		17,248	23,086	29,974	
GHG emission intensity (per m² of building area) 溫室氣體排放強度(每平方米廠區)		0.06	0.08	0.11	
GHG emission intensity (per employee) 溫室氣體排放強度(每名僱員)		37	36	48	

Note 1: Emission factors were made reference to Appendix C2 of the Listing Rules and their referred documentation as set out by the Stock Exchange, unless stated otherwise. Scope 3 emissions were only calculated based on the available emission factors from the referred documentation.

附註1: 除另有說明外, 排放系數乃參照聯交所所載上市規則附錄C2及其參考文件得出。範圍3的排放量僅根據參考文件中的現有排放系數計算。

Note 2: Emission for the combustion of natural gas, fuel oil and diesel for stationary source were calculated with reference to the emission factors provided by the Greenhouse Gas Protocol Tool for Energy Consumption in China.

附註2: 固定源的天然氣、燃油及柴油燃燒排放量乃根據中國的能源消耗引起的溫室氣體排放計算工具提供的排放系數計算。

Note 3: Emission factor for purchased electricity in Mainland China was 0.5703 tCO₂e/MWh in 2023, 0.581 tCO₂e/MWh in 2022, and 0.6101 tCO₂e/MWh in 2021, with reference to the Ministry of Ecology and Environment of People's Republic of China.

附註3: 經參考中華人民共和國生態環境部, 在中國內地的外購電力所採用排放系數於二零二三年為每兆瓦時0.5703噸二氧化碳當量、二零二二年為每兆瓦時0.581噸二氧化碳當量及二零二一年為每兆瓦時0.6101噸二氧化碳當量。

Note 4: Indirect emissions of fuels other than electricity were not calculated due to unavailable emission factors from fuel suppliers.

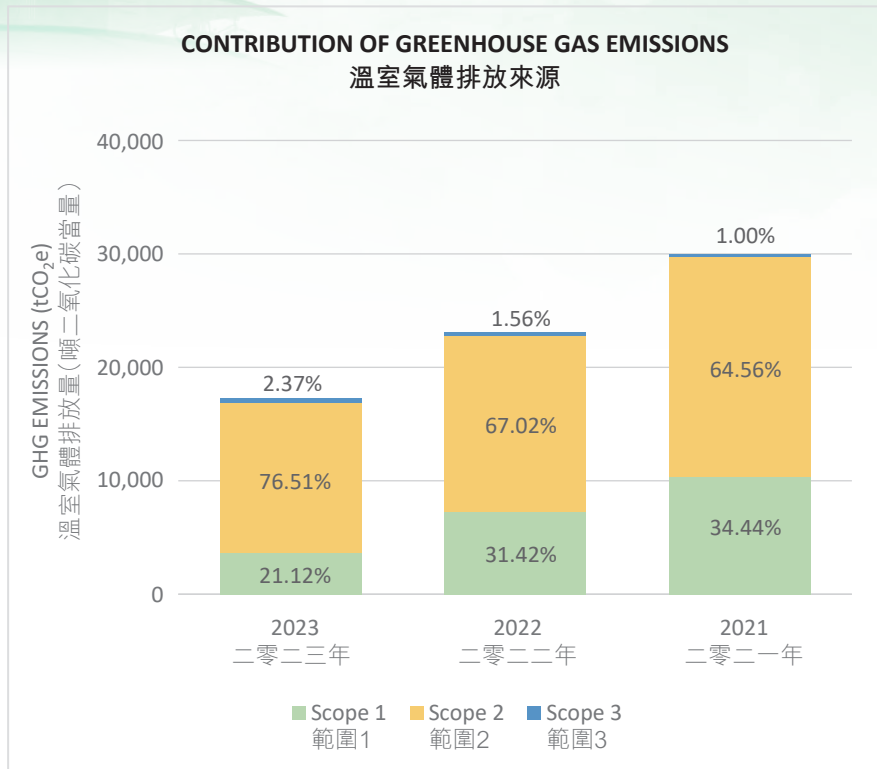
附註4: 由於無法從燃料供應商獲取排放系數, 故並未能計算除電力以外的燃料間接排放。

Note 5: Business air travels in 2022 have increased due to the increased outreach projects and market development activities in Jiangsu Yu Xin.

附註5: 由於江蘇宇新的外展項目及市場開發活動增加, 於二零二二年商務航空差旅亦隨之增加。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告



Hazardous Waste Produced

Hazardous waste from the Key Operations of the Group included residue from incineration, residue and sludge from electroplating and on-site wastewater treatment facilities, and other miscellaneous waste (such as contaminated activated carbon, solutions bottles and filters, heat-resistant materials, etc). A total of 33,136 tonnes of hazardous waste, with an intensity of 0.09 tonne/m², or 54.97 tonne/employee, was generated during the Reporting Year. Compared to the Last Reporting Period, hazardous waste generated has reduced by 13%.

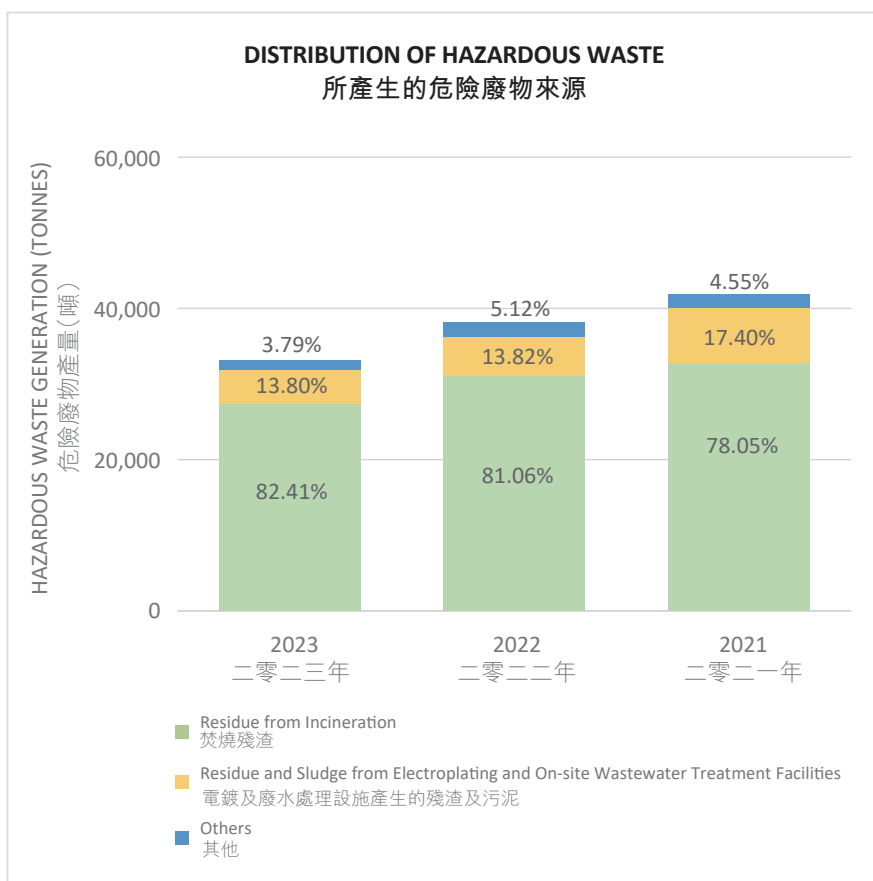
所產生危險廢物

本集團主要業務運作產生的危險廢物包括焚燒殘渣、電鍍及現場廢水處理設施產生的殘渣及污泥，以及其他一般廢物（例如受污染的活性炭、試劑瓶及濾芯、耐熱物料等）。於報告年度內產生的危險廢物總量為33,136噸，強度為每平方米0.09噸或每名僱員54.97噸。與上個報告期間相比，所產生的危險廢物減13%。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

	2023 二零二三年	2022 二零二二年	2021 二零二一年
Hazardous waste generated 所產生的危險廢物	33,136	38,219	41,885
Residue from incineration 焚燒殘渣	27,308	30,980	32,690
Residue and sludge from electroplating and wastewater treatment facilities 電鍍及廢水處理設施產生的殘渣及污泥	4,571	5,281	7,287
Others 其他	1,257	1,958	1,908
Hazardous waste intensity (per tonne of treated solid waste) 危險廢物強度(每噸經處理固體廢物)	0.31	0.36	0.34
Hazardous waste intensity (per m³ of treated wastewater) 危險廢物強度(每立方米經處理廢水)	0.009	0.01	0.01



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

During the Reporting Year, 0.48% of hazardous waste was fed back to incineration devices at Group-owned sites and treated by the continuously upgraded facilities. The remaining 99.52% were collected by qualified waste collectors. Most of which were disposed of at designated hazardous waste landfills, while the others were incinerated or recycled in some cases.

Non-hazardous Waste Produced

A total amount of 2,265 tonnes of non-hazardous waste, an intensity of 0.008 tonne/m², or 4.84 tonne/employee was generated from the Key Operations. It was mainly domestic waste, consisting of commercial waste from office and employee residence, as well as disinfected and shredded medical waste. Compared to the Last Reporting Period, non-hazardous waste generated has dropped by 26%.

於報告年度內，0.48%的危險廢物被送回到現場的焚燒設備，以不斷升級的設施處理。其餘99.52%由合資格的廢物收集商收集，當中大部份在指定的危險廢物填埋場棄置，其餘則被焚燒，或在某些情況下被回收。

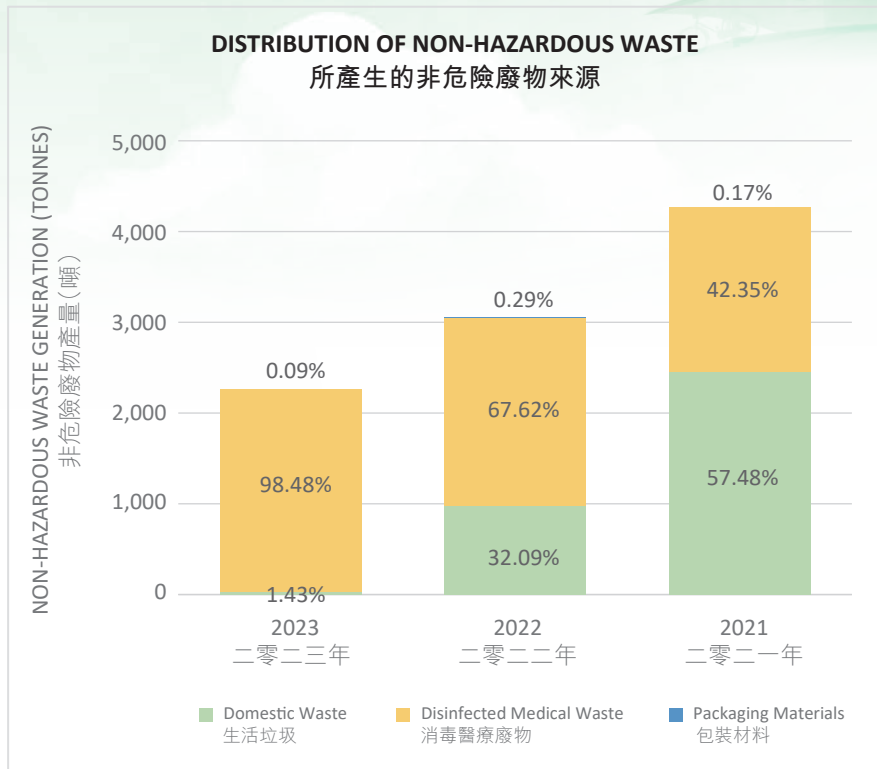
所產生非危險廢物

主要業務運作產生的非危險廢物總量為2,265噸，強度為每平方米0.008噸或每名僱員4.84噸，主要性質為生活垃圾，當中包括來自辦公室及僱員宿舍的商業廢物，以及經消毒及切碎的醫療廢物。與上個報告期間相比，所產生非危險廢物減少26%。

	2023 二零二三年	2022 二零二二年	2021 二零二一年
	Volume (tonnes) 產量 (噸)		
Non-hazardous waste generated 所產生的非危險廢物	2,265	3,053	4,271
Domestic Waste 生活垃圾	32	980	2,455
Disinfected Medical Waste 消毒醫療廢物	2,231	2,064	1,809
Packaging Materials 包裝材料	2	9	7
Non-hazardous waste intensity (per m² of building area) 非危險廢物強度 (每平方米廠區)	0.008	0.01	0.02
Non-hazardous waste intensity (per employee) 非危險廢物強度 (每名僱員)	4.84	4.79	7

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告



Most non-hazardous waste was handled by qualified waste collectors and sent to nearby suppliers for incineration or landfilling; the rest was fed back to and incinerated by the Groups' waste treatment facilities.

大部分非危險廢物由合資格的廢物收集收集，並送往附近的供應商進行焚化或填埋；其餘則送回本集團的廢物處理設施進行焚化。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Wastewater Discharge

The Group is aware of the environmental impacts of improper wastewater treatment and discharge. The Key Operations make sure their pipelines and facilities are protected with seepage and leakage prevention work, alongside regular monitoring over working procedures and relevant facilities, to prevent wastewater from negatively impacting the environment.

廢水排放

本集團知悉廢水處理及排放不當會造成環境影響。主要業務運作藉防滲防漏工作保護管道及設施，並對工作程序及相關設施進行定期監控，以防止廢水對環境造成負面影響。



Figure 6 Seepage and leakage prevention work at waste treatment facility located at Yancheng NUHF
圖6 鹽城新宇輝豐廢水處理設施防滲防漏工作

To minimise the potential risks associated with discharge of wastewater, all solid waste treatment plants are equipped with on-site treatment facilities to carry out pre-treatment prior to sending them off to qualified downstream treatment plants. As for the Eco-Plating Specialised Zone, which is a wastewater treatment site for manufacturing clients, it stringently complies with all national requirements before discharging treated water. Heavy metal and biochemical pollutants are two of the parameters that are strictly monitored during the process. Regular technical improvement works are carried out in order to maintain a stable and effective capacity to serve the growing demand from clients within the zone. In addition to the existing technologies on real-time monitoring of wastewater discharges and effective removal of chemical oxygen demand (“COD”) and heavy metals, the Group makes use of the technology of reverse osmosis to further enhance the quality of treated wastewater and reduce the amount of sludge produced.

為盡量減低廢水排放涉及的潛在風險，所有固體廢物處理廠均配置現場處理設施預先處理廢水，然後才將廢水送往合資格的下游處理廠。至於環保電鍍專業區作為製造業客戶的廢水處理場，在排放經處理廢水之前，嚴格遵守國家的各項規定。重金屬與生化污染物是處理過程中嚴格監控的其中兩個參數。本集團定期進行技術升級工程，以保持穩定及有效的產能，務求滿足園區內客戶日益殷切的需求。除現有實時監測的廢水排放及有效去除化學需氧量（「COD」）及重金屬的技術外，本集團利用反滲透技術，以進一步提高處理後的廢水品質，減少污泥的產生。



Figure 7 ROT-upgraded wastewater treatment facility at the Eco-Plating Specialised Zone

圖7 環保電鍍專區升級改造－營運－移交廢水處理設施

Use of Resources

The Group's operations involve the use of various resources, including energy, water, and other raw materials. The Group has various policies outlined to enhance resources use efficiency, taking into account into laws and regulations as abovementioned.

資源使用

本集團的業務涉及使用多種資源，包括能源、水及其他原材料。本集團在考慮到上述法律及規例的情況下，制定各種政策以提高資源使用效益。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Energy Consumption

能源消耗

	2023 二零二三年	2022 二零二二年	2021 二零二一年
	Consumption (kWh) 消耗量(千瓦時)		
Energy consumption¹ 能源消耗量 ¹	38,500,843	55,452,310	72,367,381
Purchased electricity 外購電力	22,972,377	26,629,675	31,719,092
Natural gas 天然氣	6,919,358	12,458,581	15,308,296
LPG 液化石油氣	11,104	/	/
Fuel oil 燃油	/	7,157,529	7,384,345
Diesel 柴油	8,308,329	8,711,326	17,374,641
Petrol 汽油	289,675	495,199	581,007
Energy usage intensity (per tonne of treated solid waste)² 能源使用強度(每噸經處理固體廢物) ²	393	550	655
Energy usage intensity (per m³ of treated wastewater)³ 能源使用強度(每立方米經處理廢水) ³	4	5	7
Energy usage intensity (per m² of office area)⁴ 能源使用強度(每平方米辦公室面積) ⁴	55	86	85

Note 1: Recovered steam was produced from the combustion of fuel that has been included in the energy consumption of the associated fuel. The energy consumption from recovered steam was zero.

附註1：回收蒸汽是由燃燒燃料所產生的，並已經計入相關燃料的能源消耗中。回收蒸汽的能源消耗為零。

Note 2: Energy usage intensity per tonne of treated solid waste = total kWh of energy used in solid waste treatment operations/total tonne of treated waste in the solid waste treatment operations. Energy used include all energy used under the solid waste treatment operations' control, e.g., for all stationary machinery and mobile vehicles.

附註2：每噸處理後的固體廢物的能源使用強度=固體廢物處理作業所使用的能源總千瓦時/固體廢物處理作業中所處理廢物總噸數。所用能源包括固體廢物處理作業控制範圍內所使用的的所有能源，如：所有固定機械及機動車輛的能源。

Note 3: Energy usage intensity per tonne of treated wastewater = total kWh of energy used in the wastewater treatment plant in the Eco-Plating Specialised Zone/total m³ of treated wastewater in the Eco-Plating Specialised Zone. Energy used include all energy used under the Eco-Plating Specialised Zone's control, e.g., for all stationary machinery and mobile vehicles.

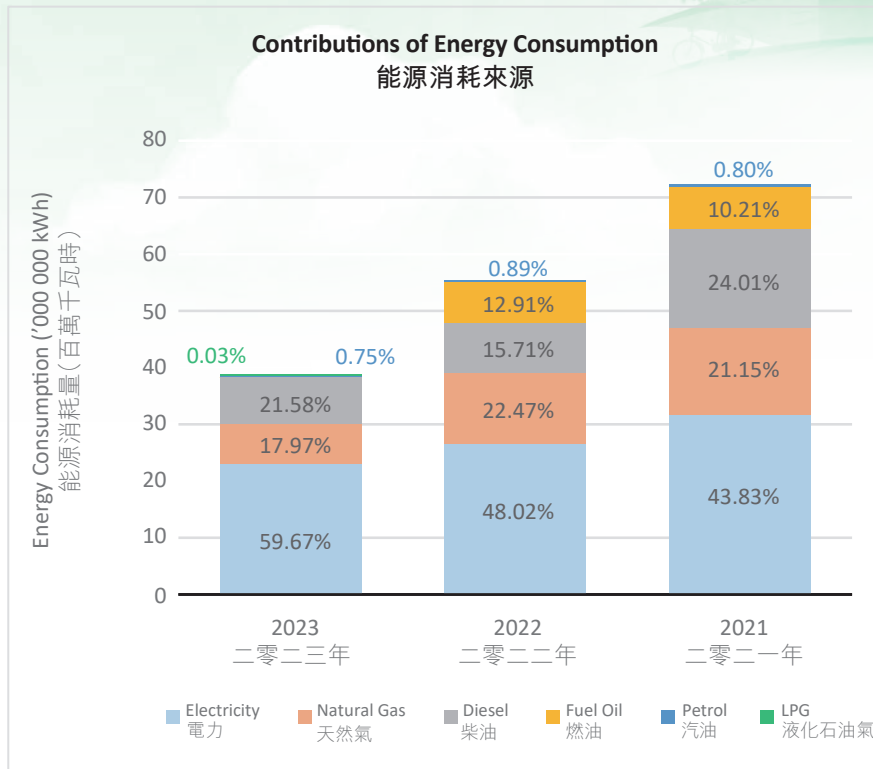
附註3：每噸經處理廢水的能源使用強度=環保電鍍專業區廢水處理廠能源使用總量千瓦時/環保電鍍專業區處理廢水總量立方米。所用能源包括環保電鍍專業區控制範圍內所使用的的所有能源，如所有固定機械及機動車輛所使用的能源。

Note 4: For 2023, energy usage intensity per m² of office area = total kWh of energy used in Jiangsu Xin Yu offices/total m² of office area of Jiangsu Xin Yu; For 2022 and 2021, energy usage intensity per m² of office area = total kWh of energy used in Jiangsu Yu Xin and Jiangsu Xin Yu offices/total m² of office area of Jiangsu Yu Xin and Jiangsu Xin Yu.

附註4：於二零二三年，每平方米辦公面積能源使用強度=江蘇新宇辦公室總用能千瓦時/江蘇新宇辦公面積總平方米。於二零二二年及二零二一年，每平方米辦公面積能源使用強度=江蘇宇新及江蘇新宇辦公室總用能千瓦時/江蘇宇新及江蘇新宇辦公面積總平方米。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告



Direct Energy Consumption – Energy Powered by Combustion of Fuel

Stationary machinery and processes, such as, incinerators, stabilisation of incineration process, and control of hazardous emission consumed natural gas, fuel oil and diesel during the Reporting Year. Passenger cars, light and medium goods vehicles, and other mobile machinery (such as fork lifters) were utilised during the Reporting Year, consuming diesel and petrol. The Group continued to reduce its unnecessary vehicles use, contributing to reduction in mobile vehicle induced fuel consumption.

直接能源消耗—燃燒燃料發電

於報告年度內，焚燒設施、焚燒穩定化程序及危險排放物治理等固定機器及程序消耗天然氣、燃油及柴油。於報告年度內，本集團使用消耗柴油及汽油的載客車輛、輕型及中型貨車及其他移動機械（例如叉車）。本集團繼續減少不必要的車輛使用，為減少機動車輛引起的燃料消耗作出貢獻。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Combustion of Fuel

燃油燃燒

	2023 二零二三年	2022 二零二二年	2021 二零二一年
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Combustion (m³)
燃燒量 (立方米)

Natural gas for stationary source 固定源的天然氣	700,025	1,260,423	1,548,726
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Combustion (litres)
燃燒量 (升)

Fuel oil for stationary source 固定源的燃油	/	666,114	687,223
Diesel 柴油	830,988	871,296	1,737,791
Diesel for stationary source 固定源的柴油	467,455	343,862	1,368,879
Diesel for mobile sources 流動源的柴油	363,533	527,434	368,912
Petrol for mobile sources 流動源的汽油	32,687	55,878	65,561

Combustion (kg)
燃燒量 (千克)

LPG for stationary source 固定源的液化石油氣	797	/	/
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ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Indirect Energy Consumption – Purchased Electricity and Recovered Steam

The total electricity consumption by the Key Operations was 22,972,378 kWh during the Reporting Year. The Key Operations also recovered heat from its production lines and recycles the steam for internal heating. During the Reporting Year, 80,978 tonnes of steam was recovered from Zhenjiang New Universe, Yancheng NUHF, and Suqian New Universe, in which 26,413 tonnes of steam was fed back to self-owned facilities for heating and 51,175 tonnes of steam was sold to other companies for heating purpose, whereas 3,390 tonnes of steam was lost due to heat dissipation during transportation. Energy consumption of steam has been included in the energy consumption of fuel used to generate steam.

間接能源消耗—外購電力及回收蒸汽

報告年度內，主要業務運作的總耗電量為22,972,378千瓦時。主要業務運作亦已從生產線回收熱量，並將蒸汽回收用作內部供熱。報告年度內，鎮江新宇、鹽城新宇輝豐及宿遷宇新回收80,978噸蒸汽，當中有26,413噸蒸汽送回到自有設施供熱，及51,175噸蒸汽售予其他公司供熱，而3,390噸蒸汽在運輸過程中因散熱導致損失。蒸汽的能源消耗已包含在產生蒸汽的燃料的能源消耗當中。

	2023 二零二三年	2022 二零二二年	2021 二零二一年
	Consumption (kWh) 消耗量 (千瓦時)		
Purchased electricity¹ 外購電力 ¹	22,972,378	26,629,674	31,719,092
For treatment of solid waste 供處理固體廢物	21,034,491	24,671,242	28,647,114
For treatment of wastewater ¹ 供處理廢水 ¹	1,907,235	1,867,116	3,000,202
For office operations 供經營辦公室	30,652	91,316	71,776

Note 1: Purchased solar energy is not included in total amount of purchased electricity and treatment of wastewater

附註1: 購買太陽能並不包括外購電力及廢水處理總量

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Water Consumption

During the Reporting Year, a total of 886,636 m³ of fresh water was consumed by the Key Operations. The water usage intensity was 2.93 m³ per tonne of treated solid waste, 1.39 m³ per m³ of treated wastewater, and 0.22 m³ per m² of office operation at Jiangsu Xin Yu.

水資源消耗

於報告年度內，主要業務運作的食水消耗量共為886,636立方米。每噸經處理固體廢物用水強度為2.93立方米，每立方米經處理廢水用水強度為1.39立方米，在江蘇新宇辦公室運作的每平方米用水強度為0.22立方米。

Water Consumption

水資源消耗量

	2023 二零二三年	2022 二零二二年	2021 二零二一年
	Volume (m ³) 消耗量(立方米)		
Water consumption 耗水量	886,636	696,219	605,816
Water usage intensity (per tonne of treated solid waste) ¹ 用水強度(每噸經處理固體廢物) ¹	2.93	4.34	4.08
Water usage intensity (per m ³ of treated wastewater) ² 用水強度(每立方米經處理廢水) ²	1.39 ³	0.78 ³	0.40
Water usage intensity (per m ² office area) ⁴ 用水量(每平方米辦公室面積) ⁴	0.22	0.09	0.09

Note 1: Water usage per tonne of treated solid waste = total m³ of water used in the solid waste treatment operations/total tonne of treated solid waste.

附註1：每噸處理固體廢物用水量=固體廢物處理作業用水總立方米/經處理固體廢物總噸數。

Note 2: Water usage per m³ of treated wastewater = total m³ of water used in the wastewater treatment plant in the Eco-Plating Specialised Zone/ total m³ of treated wastewater in the Eco-Plating Specialised Zone. Only water used under the Group's control is reported.

附註2：每立方米經處理廢水用水量=環保電鍍專業區廢水處理廠用水總量/環保電鍍專業區處理廢水總立方米。僅報告本集團控制的用水量。

Note 3: The water usage intensity per m³ of treated wastewater from 2023 onwards has increased significantly when compared to 2021 and 2022 due to the deteriorated quality of wastewater collected from enterprises from the Eco-Specialised Zone which led to an increased water consumption for treatment.

附註3：與二零二一年及二零二二年相比，二零二三年每立方米處理廢水的用水強度明顯增加，因從環保專區的企業所收集的廢水質量惡化，導致處理用水量增加。

Note 4: Water usage per m² of office area = total m³ of water used in Jiangsu Xin Yu/total m² of office area in Jiangsu Xin Yu. For 2022 and 2021, water consumption of Jiangsu Yu Xin is not being included as the water consumption are covered by the property management of landlord.

附註4：每平方米辦公面積用水量=江蘇新宇用水量總立方米/江蘇新宇總辦公面積平方米。於二零二二年及二零二一年，由於江蘇宇新的耗水量及水費由業主的物業管理部承擔，故不包括江蘇宇新的用水量。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Packaging Material

During the Reporting Year, approximately 90,593 kg of packaging materials was used for transferring waste from customers to the Key Operations' plants and for storing treated residue (fly ash and slag). They were mainly drums and bags made of polypropylene, polyethylene, tetrafluoroethylene, polyvinyl chloride with some recycled contents. They cannot be recycled or reused as they have been contaminated by hazardous waste. Treatment of such packaging materials are responsible by the Group's downstream collectors, which usually incinerate or deposit such waste to designated hazardous waste landfill depending on the waste content. For non-contaminated packages such as corrugated boxes, they are reused internally as much as possible.

Packaging Materials Consumed

包裝材料

於報告年度內，將廢物從客戶移送至主要業務運作之廠房前貯存經處理殘渣（如飛灰及爐渣）之前進行儲存所使用的包裝材料約達90,593千克。包裝材料主要為以聚丙烯、聚乙烯、四氟乙烯、聚氯乙烯製成的桶及袋子，內含若干回收成份。由於這些包裝物料已被危險廢物污染，因此不能回收或再利用。有關的處理由本集團的下游收集商負責，通常會根據廢物含量將其焚燒或送往指定的危險廢物填埋場。對於未受污染的包裝物，如瓦楞紙箱等，則盡可能在內部進行再利用。

所消耗的包裝材料

	2023 二零二三年	2022 二零二二年	2021 二零二一年
	Weight (kg) 消耗量 (千克)		
Packaging materials consumption 包裝材料消耗	90,593	217,415	244,538
Packaging materials intensity (per m ² of building area) 包裝材料強度 (每平方米廠區)	0.32	0.76	0.79
Packaging materials intensity (per employee) 包裝材料強度 (每名僱員)	195	341	358

During the Reporting Year, Yancheng NUHF has continued to adopt the new medical waste collection system for large-scaled hospitals first introduced in 2021, which phased out the use of single-use medical waste collection bags and containers. The new medical collection containers were recycled for continuous collection. They were sterilised daily and upon disposal of wastes.

報告年度內，鹽城新宇輝豐繼續為大型醫院採納已於二零二一年首次引進的新醫療廢物收集系統，逐步淘汰使用一次性醫療廢物收集袋及容器。新醫療收集容器被回收用於持續收集。其於日常及處置廢物時進行消毒。



Figure 8 Medical Collection Containers Adopted at Yancheng NUHF
圖8 在鹽城新宇輝豐內採用的醫療收集容器

Combating Climate Change

It is inevitable for the Group to face the risks derived from climate change. The Group has taken proactive steps in enhancing its preparedness and resilience to climate change. It has assessed and duly identified the climate-related risks that might pose significant impacts on its business operation and supply chain. During the Reporting Year, the Group has started disclosing its climate issues with reference to the Task Force on Climate-Related Financial Disclosures (“TCFD”) recommendations on climate-related financial disclosure.

Governance

The Group’s ESG and climate issues management is integrated into its governance structure as shown in the section “Sustainability Governance Structure”. The Group understands that climate-related issues affect its businesses, strategy, and financial planning over the short, medium, and long term. The Group has therefore identified climate-related risks and opportunities it encounters over various time horizons. The identified climate risks are assessed based on the assessment methodology explained in “Risk Management”. According to the identified risks, the Group has developed corresponding management approaches. While for climate-related opportunities, the Group has determined action plans to enhance its resilience to climate change.

抵抗氣候變化

本集團不可避免地要面對氣候變化帶來的風險。本集團已採取積極措施，加強對氣候變化的準備及抵禦能力。本集團已經評估並適當確定可能對其業務運營及供應鏈構成重大影響的氣候相關風險。於報告年度，本集團已開始參照氣候相關財務披露工作小組（「TCFD」）關於氣候相關財務披露的建議，披露其氣候事宜。

管治

如「可持續管治架構」一節所述，本集團的環境、社會及管治及氣候事宜管理已納入其管治架構。本集團明瞭，氣候相關事宜會對其業務、戰略及財務規劃造成短期、中期及長期影響。因此，本集團已經確定不同時間範圍內遇到的氣候相關風險及機會。經確定的氣候風險乃根據「風險管理」一節所解釋的評估方法進行評估。根據經確定風險，本集團已制定相應管理方針。至於與氣候相關的機會，本集團已釐定行動計劃，以增強其對氣候變化的抵禦能力。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Strategy

The relevant climate risks identified, their time horizon, trend, and the potential financial impacts affecting the Group are shown below.

策略

經確定氣候相關風險、時間範圍、趨勢及影響本集團的潛在財務影響如下所示。

	CLIMATE RISKS 氣候風險	TIME HORIZON 時間範圍	TREND 趨勢	POTENTIAL FINANCIAL IMPACT 潛在財務影響
PHYSICAL RISKS 物理風險	Acute 急性	Short term 短期	Increase 增加	Extreme weather events with increased severity during cyclones, hurricanes, storm surges and floods can cause damage to the Key Operations and its machinery, and human resources disruption. 在氣旋、颱風、風暴潮及洪水期間，極端天氣事件的嚴重性增加，可能會對主要業務運作及其機械造成損害，並造成人力資源的中斷。
	Chronic 慢性	Long term 長期	Increase 增加	Longer-term changes in climate patterns could have an impact on landfill layering, rates of decomposition, and trash stabilization, elevating the expense of operating landfills. With more rain and rising sea levels, the Eco-Specialized Zone will consequently be more at risk of flooding or contamination. Generally, the alteration in climate patterns increases the cost of capital, operating costs, the cost of human resources, the cost of insurance premiums, and the potential for reduced availability of insurance on assets in locations with high exposure to natural disasters. 氣候模式的長期變化會對填埋場的分層、分解率及垃圾的穩定性產生影響，提高填埋場的運營費用。隨著雨水增多及海平面上升，環保專區將因而面對更多洪水或污染風險。一般而言，氣候模式的改變會增加資本成本、運營成本、人力資源成本、保險費成本，以及在自然災害高發地區的資產保險可能會減少供應。
TRANSITION RISKS 過渡風險	Policy and Legal 政策及法律	Long term 長期	Increase 增加	Upon implementation of tightened environmental laws and the carbon pricing system, the Group will expect increased operating costs, increased costs resulting from fines and legal proceedings if non-compliance with newly implemented regulations occurs, and supply chain disruption or supply shortage if the carbon pricing system affects the chemical markets. 在實施更嚴格的環境法及碳定價制度後，本集團預期運營成本會增加，如發生不遵守新實施法規，罰款及法律訴訟會導致成本增加，如碳定價制度影響到化學品市場，供應鏈會中斷或出現供應短缺。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

	CLIMATE RISKS 氣候風險	TIME HORIZON 時間範圍	TREND 趨勢	POTENTIAL FINANCIAL IMPACT 潛在財務影響
TRANSITION RISKS 過渡風險	Technology 技術	Short term 短期	Increase 增加	<p>During the transitional period, the Group expects increased research and development and/or procurement expenditures to introduce new and alternative technologies, and additional cost of adopting new practices and processes.</p> <p>於過渡期內，本集團預計將增加研發及／或採購支出，以引進新的及替代技術，以及因為採納新的實踐方法與程序引致額外成本。</p>
	Market 市場	Short term 短期	Increase 增加	<p>The waste treatment method of co-processing of waste in cement kiln provides a sustainable and cost-effective alternative to the traditional waste treatment methods adopted by the Group. This may reduce demand for the Group's services and impact its revenue and profitability.</p> <p>水泥窯協同處理廢物的方法為本集團採用的傳統廢物處理方法提供可持續及具成本效益的替代方案。這種方法可能會減少對本集團服務的需求，影響收入及盈利能力。</p>
	Reputation 信譽	Medium term 中期	Increase 增加	<p>Stakeholders' concerns and negative news on climate-related issues might dampen the investment sentiment of investors, impacting the stock price and market capitalisation of the Group, and hence increasing the liquidity risk.</p> <p>利益相關者的關注及氣候相關事宜的負面消息可能會抑制投資者的投資情緒，影響本集團股價及市值，從而增加流動性風險。</p>

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Risk Management

An ESG risk assessment was conducted based on assessing the possibility and impact of each identified risk. Risks are then prioritised and classified into three risk levels: high, medium and low. The overall risk level was determined depending on the possibility and impact of the risks.

風險管理

環境、社會及管治風險評估乃建基於每個經確定風險的可能性及影響。然後對風險進行優先排序，並將其分為高中低三個風險級別。整體風險級別乃根據風險的可能性及影響而釐定。

Risk levels

風險水平

Definition of the overall risk levels

整體風險級別之定義

High 高	Risks at this level may have serious consequences. It is highly likely that there will be some impacts to the Group and hindrance for the Group to achieve strategic goals. 本風險級別可能會產生嚴重的後果。極有可能對本集團造成若干影響，妨礙本集團實現策略目標。
Medium 中	Risks at this level may have serious consequences, but they are less likely to occur. Conversely, the consequences could be minor in nature, but the probability of occurrence is higher. 本風險級別可能有嚴重的後果，但發生的可能性較低。反之，後果可能屬輕微，但發生概率較高。
Low 低	Risks at this level have limited harm and consequences for the Group to achieve its strategic goals, and the probability of occurrence is low. 本風險級別對本集團實現策略目標的危害及後果有限，發生概率較低。

The major climate physical and transition risks identified, their overall risk levels and the Group's management approach are shown below. The Group will prioritise resources to manage climate risks with high risk levels.

經確定主要氣候物理及過渡風險、其整體風險水平及本集團管理方針見下文。本集團將優先安排資源來管理高風險水平的氣候風險。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

	CLIMATE RISKS 氣候風險	OVERALL RISK LEVEL 整體風險級別	MANAGEMENT APPROACH 管理方針
PHYSICAL 物理風險	Acute and chronic 急性及慢性	High 高	<ul style="list-style-type: none"> Purchased insurance to minimise financial implications caused by extreme weather damages 購買保險，以儘量減少極端天氣損害造成的財務影響
	Policy and Legal 政策及法律	High 高	<ul style="list-style-type: none"> Continuously explore energy efficiency and recovery opportunities to better manage its emissions 不斷探索能源效率及回收機會，以更好地管理其排放物 Cooperates with the government authorities to perform industrial upgrading projects whenever necessary 在必要時與政府當局合作進行產業升級項目
	Technology 技術	High 高	<ul style="list-style-type: none"> Continuously explore energy efficiency and recovery opportunities to better manage its emissions 不斷探索能源效率及回收機會，以更好地管理其排放物 Explore state-of-the-art artificial intelligent technologies to adjust and optimise ambient conditions for hazardous waste treatment 探索最先進的人工智能技術，調整及優化危險廢物處理的環境狀況 Improve operation efficiency 提高運營效率
TRANSITION 過渡風險	Market 市場	High 高	<ul style="list-style-type: none"> Support the national directions and policies 支持國家方向及政策 Improve the coordination with other entities in the same industry in line with the national guiding principles toward the national climate target 根據國家對全國氣候目標的指引原則，改善與同業其他實體的協調 Continue to adopt traditional waste treatment methods since incineration and landfilling are more established and reliable waste treatment methods, especially for hazardous wastes. In contrast, new waste treatment methods such as co-processing of wastes in cement kiln may require further research to reduce risks to human health and safety. 繼續採用傳統的廢物處理方法，因焚燒及填埋是比較成熟及可靠的廢物處理方法，特別是對於危險廢物。相反，新式廢物處理方法，如水泥窯的廢物協同處理，可能需要進一步研究以減少對人類健康及安全的風險。
	Reputation 信譽	Medium 中	<ul style="list-style-type: none"> Emphasise on continuous staff training and development on climate issues at the operating level and optimise administrative policies on climate issues on executive level 強調在運營層面對員工進行持續的氣候問題培訓及發展，在執行層面優化氣候問題的行政政策 Focus on the Group's targets on GHG reduction to mitigate risks of climate change 專注本集團的溫室氣體減排目標，以減輕氣候變化的風險

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Metrics and Targets

To measure the level and impact of the Group's climate-related risks, the Group monitors metrics and indicators to ensure an effective and quantitative assessment. The Group monitors and reviews its Scope 1, Scope 2, Scope 3 GHG emissions (in tCO₂e), total GHG emissions (in tCO₂e) and the GHG emission intensities regularly. The GHG emission data and targets set are shown in the sections "Greenhouse Gas Emissions" and "Environmental Strategies and Targets".

指標及目標

為計量本集團氣候相關風險的水平及影響，本集團監察各項指標及指數，以確保有效的量化評估。本集團定期監測及審查其範圍1、範圍2、範圍3的溫室氣體排放量（單位：噸二氧化碳當量）、溫室氣體總排放量（單位：噸二氧化碳當量）及溫室氣體排放強度。溫室氣體排放數據及設定的目標見「溫室氣體排放」一節及「環境策略及目標」一節。

Social Responsibilities and Ethics

1. Employment and Labour Practices

Employment

The Group did not note any cases of material non-compliance in relation to employment during the Reporting Year, and strictly complies with national and local laws and regulations, including but not limited to the following:

- Labour Law of the PRC
- Labour Contract Law of the PRC
- Employment Promotion Law of the PRC
- Social Insurance Law of the PRC
- Law of the PRC on the Prevention and Control of Occupational Diseases
- Regulations of Jiangsu Province on Wage Payment
- Special Rules on the Labour Protection of Female Employees

Total Workforce

As of 31 December 2023, the Key Operations had a total of 465 employees, all of which were from Mainland China. Around 100% of them were full-time employees. Due to the disposal of Jiangsu Yu Xin during the Reporting Year, the ratio of frontline to management has increased compared to previous years.

社會責任與道德

1. 僱傭及勞工常規

僱傭

本集團於報告年度內並無發現在僱傭方面發生任何重大違規情況，且嚴格遵守國家及地方法律及規例，包括但不限於下列各項：

- 中國勞動法
- 中國勞動合同法
- 中國就業促進法
- 中國社會保險法
- 中國職業病防治法
- 江蘇省工資支付條例
- 女職工勞動保護特別規定

僱員總數

於二零二三年十二月三十一日，主要業務運作共有465名僱員，全部來自中國內地，當中約100%為全職僱員。由於在報告年度出售江蘇宇新，前線人員與管理層的比例較過往年度增加。

	2023 二零二三年	2022 二零二二年	2021 二零二一年
Number of employees¹ 僱員人數 ¹	465	638	627
Full-time: part-time (ratio) 全職：兼職（比率）	464:1	637:1	313:1
Male: female (ratio) 男性：女性（比率）	4:1	4:1	4:1
Frontline: Management (ratio) 前線：管理層（比率）	6:1	3:1	3:1
18-25: 26-35: 36-45: 46-55: above 55 18-25歲：26-35歲：36-45歲：46-55歲：55歲以上	1:32:54:50:18	1:15:19:18:5	1:9:10:9:2

Note 1: Number of employees were those working within the reporting scope at the end of the Reporting Year.

附註1：僱員人數以報告年度末於報告範圍內工作的人員計算。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Employee Turnover

The Group has been establishing mutual communication platforms between management and its employees, considering employees' feedback, and creating a friendlier corporate culture for staff retention. During the Reporting Year, 165 people left the Key Operations' workforce, corresponding to a turnover rate of 36%, which saw an increase when compared with the Last Reporting Period. This is mainly due to the operations temporary halting at Xiangshui NU since September during the Reporting Period, leading to significant turnover figures from the subsidiary.

To further lower their turnover rate and retain talents, the Key Operations will continue reviewing existing practices and strategies on salary and welfare, health and safety protection, and internal engagement and caring activities. The Key Operations hope that an improved sense of belonging and cohesion can be achieved when employees' expectations are met.

Employment Policies

During the Reporting Year, there was no major change in management measures relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunities, diversity and anti-discrimination for all Key Operations. In Eco-Plating Specialised Zone, the welfare terms have improved for employees accumulating longer service years to reward their contribution to the business. With the growing demand from clients and the municipal government, the Key Operations have adopted mobile application, face recognition security devices and other intelligent control administrative system to encourage better utilisation of information technology in human resources management.

Compensation and Benefits Package

Employees of the Key Operations are entitled to basic salary with various allowance and incentive bonus as per their job positions, responsibility, capability, contribution, performance, experience, and other attributes. The Group regularly reviews and adjusts employees' salary in accordance with its business growth and market price. The overall compensation is generally above market average. Year-end bonuses are also provided based on performance.

Apart from monetary form of remuneration, non-monetary form of basic social insurance, including pension, medical, work-related injury, unemployment compensation and leaves are also offered for talents retainment. In terms of leaves, employees enjoy national holidays, marriage leaves, maternity leaves, funeral leaves, and annual leaves. Accommodation, canteen, convenience store, and shuttle buses are provided for employees working at remote plant locations. Gym equipment are provided in the Jiangsu Xin Yu office for stress relief. To create a sense of belonging and attachment to the Group, team building activities and outings are arranged regularly for enhanced communications between employees, e.g. flower arrangement workshop, hiking activities, and barbeque gatherings. A business account has also been created on WeChat to publish updates about the Group and establish a friendly culture with employees.

僱員流失情況

本集團為管理層與其僱員建立互相溝通平台，考慮僱員回饋，並創造友善的企業文化，以挽留員工。於報告年度內，本集團共有165名員工在主要業務運作部離職，流失率相當於36%，較上個報告年度增加，這主要是由於響水新宇於報告期間自九月份暫時停止運營，導致該附屬公司流失率大幅上升。

為進一步減少流失率及挽留人材，主要業務運作將持續檢討有關薪金與福利、健康與安全保護、內部參與及關懷活動的現行慣例及策略。主要業務運作部希望，當員工的期望得以實現時，可以提高員工的歸屬感與凝聚力。

僱傭政策

於報告年度內，所有主要業務運作在薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化及反歧視方面的管理措施並無重大變化。在環保電鍍專業區內，積累較長服務年期的僱員福利條件得到改善，以獎勵其對企業的貢獻。由於客戶及市政府的需求日益殷切，主要業務運作已採用流動應用程式、人臉識別保安裝置及其他智能監控管理體系，以鼓勵加強善用人力資源管理方面的資訊科技。

薪酬及福利待遇

主要業務運作的僱員享有基本薪金及根據其工作崗位、職責、能力、貢獻、表現、經驗及其他特質而提供的不同津貼及鼓勵性獎金。本集團定期檢討並根據其業務增長及市場價格調整僱員薪金。整體薪酬一般高於市場平均水平。本集團基於表現發放年終獎金。

除金錢形式的薪酬外，本集團亦提供非金錢形式的基本社會保險，包括養老保險、醫療保險、工傷保險、失業賠償及休假，以挽留員工。就休假而言，僱員享有國定假期、婚假、產假、喪假及年假。對於在偏遠的廠區工作的僱員，本集團提供住宿、飯堂、便利店及穿梭巴士。江蘇新宇辦公室提供健身器材，為員工舒緩壓力。為營造對本集團的歸屬感與忠誠度，定期安排團隊建設活動及外出旅遊，加強員工之間的交流，如花藝工作坊、遠足活動及燒烤聚會。同時在微信建立企業賬號，發佈本集團的最新動態，與員工共建友愛文化。



Figure 9 Zhenjiang Sinotech September 2023 employees hiking trip to Mount Lu
圖9 鎮江華科二零二三年九月員工廬山健行之旅



Figure 10 Selected gym equipment at Jiangsu Xin Yu
圖10 江蘇新宇部分健身器材

Internal Promotion and Dismissal

Internal promotion and job opportunities are offered to existing employees, and selection is based on monthly review on working capability, attitude, and quality on a point scoring system. Employees are encouraged to discuss their goals regarding job advancement and career development with their up-line supervisors.

The Key Operations may terminate a contract if an employee is not performing up to standard. In such cases, the labour union is given 7 days to provide any feedback or opinions for the companies' consideration. If the employee wishes to make an appeal, the labour union will provide all necessary support and assistance according to the law.

內部晉升及解僱

本集團向現有員工提供內部晉升及工作機會，甄選是以評分制度每月對工作能力、態度、素質方面的檢討為基礎。本集團鼓勵僱員與其上級主管討論他們對工作晉升及事業發展的目標。

如員工表現不能達標，主要業務運作可能終止合同。在這種情況下，工會會有7天時間提供任何反饋或意見，供公司考慮。如果員工想提出申訴，工會將依法提供一切必要的支持與幫助。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Award and Penalty System

The Group has an “Award and Penalty System”. Under this system, employees with excellent presentation, responsibility, discipline, contribution, attitude, newly acquired qualification, and who act as role models are to be recognised and rewarded with cash bonus along with certificates of compliment; on the contrary, disciplinary action and cash penalty are to be imposed if an employee has committed an act of serious misconduct or deceitful behaviours.

Equal Opportunity

The Key Operations strive to recruit talents who can create value for the Group. The Group provides equal opportunities for employees in respect of recruitment, training and development, job advancement, termination, compensation, and benefits. Recruitment channel by the Key Operations includes recruitment webpage, staff referral, platform on Department of Human Resources and Social Security. Employees are not discriminated against or deprived of such opportunities on the basis of gender, ethnicity, religion, colour, age, marital status, family status, retirement, disability, pregnancy, or any other discrimination prohibited by applicable law. Grievance procedures are developed to ensure transparency and fairness at workplace.

In the future, the Group wishes that it can contribute more to promoting diversity and making the industry more widely acceptable, especially by women, to deconstruct the stereotypes and expectations imposed on certain categories of people.

Employee Health and Safety

During the Reporting Year, there were no major changes in policies related to providing safe working environment and protecting employees from occupational hazards. There was not any noted case of material non-compliance in relation to health and safety laws and regulations. The Group strictly complies with national and local laws and regulations, including but not limited to the following:

- Law of the PRC on the Prevention and Control of Occupational Diseases
- Production Safety Law of the PRC
- Emergency Response Law of the PRC
- Provisions on the Supervision and Administration of Occupational Health at Work Sites

Work-related Fatality

There were no work-related fatalities in the past three years including the Reporting Year.

獎罰制度

本集團設有「獎罰制度」。在此制度下，僱員如在表現、責任感、紀律、貢獻、態度方面良好、新獲取學歷並作為模範，將會獲嘉許及獲得現金獎金連同表揚證書獎賞；反之，倘僱員犯了嚴重失當行為或欺詐行為，便會遭到紀錄行動處理獎金及現金罰款。

平等機會

主要業務運作致力招聘能為本集團創造價值的人才。本集團向僱員提供平等的招聘、培訓及發展、工作晉升、解聘、薪酬與福利機會。主要業務運作的招聘渠道包括招聘網頁、員工介紹、人力資源及社會保障部的平台。僱員不會因性別、種族、宗教、膚色、年齡、婚姻狀況、家庭狀況、退休、殘疾、懷孕或適用法律禁止的任何其他歧視行為而遭受歧視或遭剝奪上述的機會。本公司訂有申訴程序以確保工作場所的透明度及公平性。

今後，本集團希望能夠致力促進多元性及使行業更廣泛地獲大眾接納（特別是婦女），解除若干人士被強加的定型觀念與期望。

僱員健康及安全

於報告年度內，有關提供安全工作環境及保障僱員免受職業危害的政策並無重大變化，且並無發現有關健康及安全法律及規例的任何重大違規情況。本集團嚴格遵守國家及地方法律及規例，包括但不限於下列各項：

- 中國職業病防治法
- 中國安全生產法
- 中國突發事件應對法
- 工作場所職業衛生監督管理規定

與工作有關的死亡事故

於過去三年包括報告年度，並無發生任何與工作有關的死亡事故。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

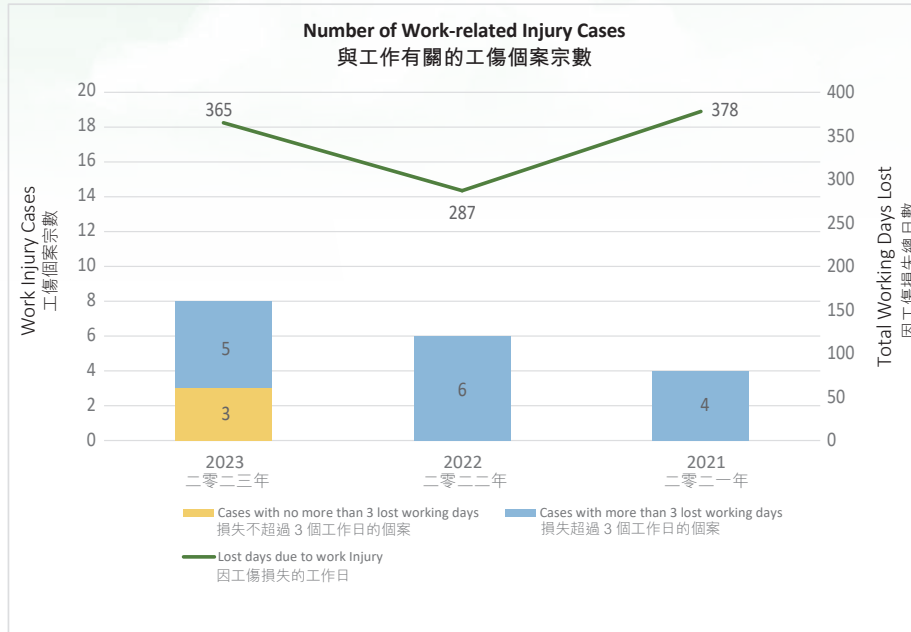
二零二三年環境、社會及管治報告

Lost Days Due to Work Injury

A total of 365 workdays combined were lost due to the work-related injuries.

因工傷損失工作日數

因工傷而損失的工作日數合共為365日。



The causes of injury cases ranged from cuts from sharp edges, accidents related to vehicular, forklift, or heavy machinery operation, and minor burns from accidental release of high temperature steam and powder. As the Group holds a strong belief that “safety is efficiency”, the Safety Department is appointed to carry out thorough investigations for every injury case to find out the cause and taken relevant corrective measures. Whenever an investigation is finished, the Group delivers seminars or training to inform its employees of the reasons that caused the accidents and emphasise on the appropriate safety measures that shall be taken. If it is found that the design of machine had contributed to certain accidents, modifications will be made such that they become more user-friendly and can lower the chance of another accident. During the Reporting Year, several measures have been reinforced after the injury cases, which include:

受傷個案的原因包括被鋒利邊緣割傷，與車輛、叉車或重型機械操作有關的事故，以及意外釋放高溫蒸氣及粉末造成的輕微燒傷。由於本集團堅信「安全就是效率」，故指派安全部就每宗受傷個案進行徹底調查，以發現事故原因及提供相關糾正措施。每當調查完畢後，本集團會舉行座談會及培訓，將導致意外的原因告知其僱員，並強調工作時應採取適當的安全措施。倘發現機器的設計導致若干意外發生，本集團便會作出改良，使機器更加易用，從而降低再發生意外的機會。於報告年度內，在發生受傷個案後，本集團加強若干措施，其中包括：

- Performed “learning from lessons” review with employees to enhance employees’ awareness of the occupational hazards;
- Revised work procedures for manual handling of loads;
- More stringent requirements for wearing of personal protective equipment (“PPE”) in hazardous work environments;
- Implemented anti-slip measures at accident-prone locations;
- Conduct more in-depth training regarding operation of forklifts and heavy machinery; and
- Strengthened safety promotion for employees during briefings, discussions, and training sessions.

- 對員工進行「事故回顧學習」的檢討，以提高員工對職業危險的意識；
- 修訂人工搬運貨物的工作程序；
- 在危險工作環境中嚴格要求穿戴個人防護裝備；
- 在事故多發地點採取防滑措施；
- 對叉車及重型機械操作進行更深入的培訓；及
- 在簡報、討論及培訓課程中為僱員加強安全宣傳。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Group's Health and Safety Policy

The Key Operations put significant effort into improving the safety of working environments and carries out regular reviews to minimise chances of incidents. The Group strives to improve its standards and lower risks by arranging more training for its employees.

Among the Key Operations, Zhenjiang Sinotech, Zhenjiang New Universe, Yancheng NUHF and Jiangsu Yu Xin (being disposed of in current Reporting Year) were accredited with the GB/T 45001/ISO 45001 Occupational Health and Safety Management System certification.

Management

As the Key Operations of the Group receive and handle various types of hazardous, infectious, and toxic waste daily, a range of measures is taken to ensure the health of employees. Leadership that oversees the occupational health and safety ("OHS") promotion throughout the workplaces is identified. It is responsible for establishing OHS management systems and operational procedures according to laws, regulations, guidelines, and standard documents as promulgated. It works with Jiangsu Xin Yu to standardise safety guidelines, identify potential risks, and ensure the effective implementation of the following practices.

Identification of OHS Risks and Hazards

- Regular examination on site-specific emissions
- Pre-employment body checks (employ only those in good health condition)
- Annual and pre-departure health examinations and follow up
- Investigations on workplace injuries (and undertaking suitable corrective actions)
- Yearly third-party assessment and evaluation on the OHS level of the working environments
- Regular internal inspection on the level of various OHS parameters

本集團的健康及安全政策

主要業務運作致力於改善工作環境的安全，並定期進行檢討，以減少事故發生的機會。本集團安排更多員工培訓，努力提高標準，降低風險。

在主要業務運作中，鎮江華科、鎮江新宇、鹽城新宇輝豐及江蘇宇新（於本報告年度出售）通過GB/T 45001/ISO 45001職業健康安全管理體系認證。

管理

由於本集團的主要業務運作每日接收及處理各種危險、有傳染性及毒性的廢物，故本集團採取一系列措施確保僱員健康。本集團確定監督整個工作場所的職業健康安全（「OHS」）促進工作的領導。負責根據頒佈的法律、規例、指引、標準文件，建立職業健康安全管理制度及操作規程。配合江蘇新宇規範安全準則、排查潛在風險及確保以下措施的有效實施。

識別職業健康安全風險及危害

- 定期審查具體地點的排放情況
- 聘用前的身體檢查（只聘用健康狀況良好的職員）
- 年度和出差前的健康檢查與跟進行動
- 工傷調查（並採取適當的糾正行動）
- 每年由第三方對工作環境的職業健康安全水平進行評估及評價
- 定期對各種職業健康安全參數水平進行內部檢查

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Preventive Measures at Workplace

- Provision of all necessary PPE, e.g., dust- and toxicity-proof respirators, noise-proof ear plugs
- Labelling on hazardous waste according to standard procedures
- Standardised work procedures and rules for each stage of handling hazardous waste, including transferal, offloading, and storage
- Prohibition of storage of contaminated waste for over 6 months
- Construction of unloading area and class A warehouse (lowers OHS hazard risk)
- Daily disinfection of facilities that handle hazardous waste
- Shortened work duration of employees working in facilities with comparatively higher concentration of indoor pollutants
- Installation of air purifier, ventilation systems, and green plants if possible, for fresh air flow
- Upgrade of flue gas treatment facilities to filter pollutants and maintain satisfactory air quality
- Set up of a platform for employees to report on any potential OHS and fire risk

工作場所的預防措施

- 提供所有必要的個人防護裝備，如防塵及防毒面罩、防噪音耳塞
- 根據標準程序在危險廢物貼上標籤
- 規範每個危險廢物處理階段（包括轉移、卸載及存儲）的工作程序及規則
- 禁止將受污染的廢物儲存6個月以上
- 興設卸貨區及甲級倉庫（降低職業健康安全危害風險）
- 對處理危險廢物的設施進行日常消毒
- 縮短僱員在室內污染物濃度較高的設施工作的時間
- 安裝空氣淨化器、通風系統及綠色盆栽（如可行），以保證新鮮空氣流動
- 升級煙氣處理設施，以過濾污染物並保持空氣品質
- 建立一個供員工報告任何潛在職業健康安全及火災風險的平台



Figure 11 Warning sign for hazardous waste at Zhenjiang New Universe

圖11 鎮江新宇危險廢物安全警告標誌

Training

- Regular OHS training and emergency drill for all employees
- Lessons on the most recent OHS laws and case studies for all new employees and those entering a new department
- Spontaneous training and seminars after any occurrence of work injury
- Competition and examination on OHS information taught to leave a stronger understanding
- Penalty for employees who fail to wear protective gears

訓練

- 定期對所有僱員進行職業健康安全培訓及應急演習
- 為所有新僱員及進入新部門的僱員提供最新的職業健康安全法及個案研究的課程
- 任何工傷事故發生後，進行自發培訓及研討
- 舉辦對所授傳職業健康安全資訊的比賽及考核，加深理解
- 處罰未佩戴防護用具的僱員

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Awareness Raising

- The Acknowledgement on Occupational Health Hazard for employees, to inform them of the OHS risks they are exposed, their rights to PPE, training, and medical support if injured, and their responsibilities of reporting malpractice or illegal activities
- Signages and labels on facilities or items that may induce OHS risks
- Notice boards at waste treatment sites to share OHS-related notifications, news, and reminders

Crisis Preparation and Management

- Annual reviewal of emergency contingency plans in preparation for service disruptions, be it caused by natural disasters or equipment failure
- Upgrade of the monitoring centre and emergency equipment, replacement of normal glass to tempered glass, and purchase of more protective gears and first-aid kits for combatting and rescuing in hazardous events
- Prompt reaction when upgrade needs are identified for facilities
- Training, footage-watching, drills, and examination to remind employees of the impacts of waste mistreatment

Continuous Review

- Regular evaluation and assessment on the potential hazards in the working environment
- Annual update on OHS implementation plans
- Continuous reviewal on training topics, work procedures, and the operating environment, and above measures

提高認識

- 為員工提供職業健康危害確認書，告知員工所面臨的職業健康風險，使用個人防護裝備用品、培訓、受傷後的醫療支持的權利，以及舉報不良行為或非法活動的責任
- 在可能引起職業健康安全風險的設施或物品上貼上標誌及標籤
- 廢物處理場的告示牌，分享與職業健康安全相關的通知、新聞及提示

危機準備及管理

- 每年審查應急處理預案，無論是自然災害還是設備故障造成的服務中斷，都要做好服務中斷準備
- 升級監控中心及應急設備，將普通玻璃更換為鋼化玻璃，並購買更多的防護裝備及急救包，以備在危險事件中進行應急及救護
- 在確定設施升級需求時迅速作出反應
- 透過培訓、觀看錄影、演習及考核，提醒員工注意廢物錯誤處理的影響

持續檢討

- 定期評價及評估工作環境中的潛在危險
- 每年更新職業健康安全實施計畫
- 持續檢討培訓主題、工作程序及作業環境，並採取上述措施

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Emergency Events

The Group's business nature suggests a risk of explosion if hazardous waste was not properly placed or handled. After the 2019 Xiangshui chemical plant explosion, the hazardous solid waste treatment operations became even more aware of the importance of taking all necessary preventive measures and having an emergency plan. They now adopt the following policies:

- prioritising treatment of the most flammable and explosive hazardous waste
- increasing the safety distance between different categories of hazardous waste and materials
- outlining emergency plans and carrying out yearly drills
- constructing unloading halls and class A temporary hazardous waste storage warehouse, and limiting the maximum length of storage as 6 months

The Class A temporary hazardous waste storage warehouses abide by the highest fire safety standards at the hazardous waste treatment plants.

Development and Training

Percentage of Employees Trained

During the Reporting Year, training was delivered to 100% of its employees. The percentage of trained employees has increased by 1% when compared to the Last Reporting Period.

緊急事件

本集團業務性質使然，倘若危險廢物放置或處理不當，就會有爆炸的風險。自二零一九年響水化工廠爆炸事故後，有害固體廢物處理運作更加意識到採取一切必要的預防措施及制定應急計劃的重要性，現時已採取下列政策：

- 優先處理最易燃易爆的危險廢物
- 增加不同類別的危險廢物及材料之間的安全距離
- 制定應急計劃，每年進行演習
- 建設卸貨大廳及甲級危險廢物臨時儲存倉庫，最長儲存時間限制為6個月

甲級危險廢物臨時儲存倉庫遵守危險廢物處理廠的最高消防安全標準。

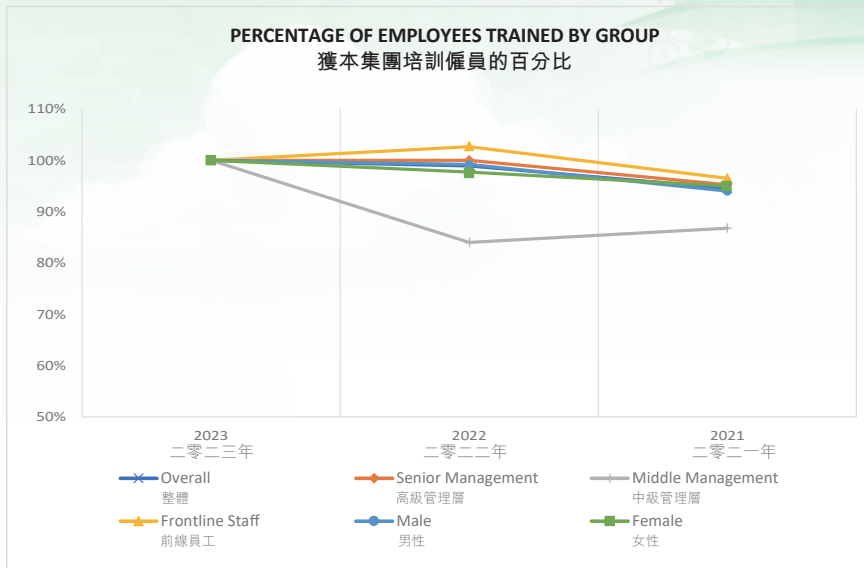
發展及培訓

已接受培訓的僱員佔比

於報告年度內，本集團提供的培訓相當於其僱員的100%。與上個報告期間相比，受訓員工的比例增加1%。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告



Note: The percentage of employees trained is calculated by number of employees who received training throughout the Reporting Year/number of employees as of 31 December of the Reporting Year. Since the trained employees during the Reporting Year included employees who have left the Group, the percentage may be over 100%.

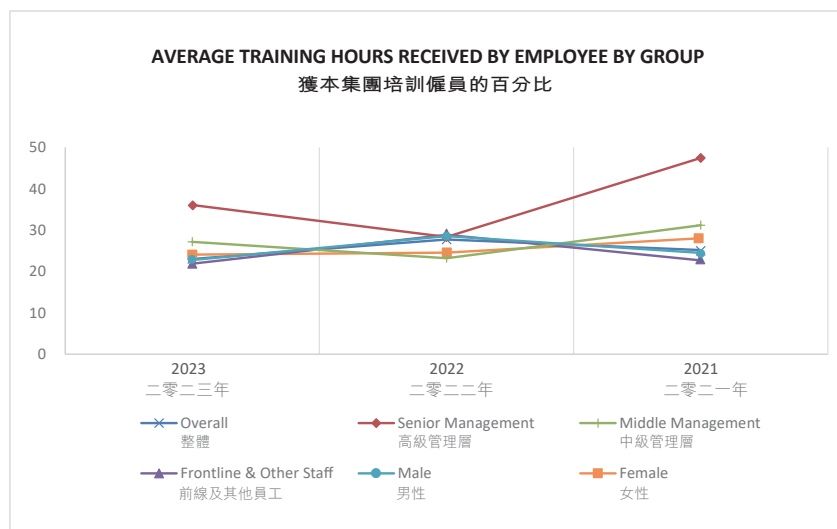
附註：已受訓僱員的百分比乃按報告年內受培訓的僱員總人數除以報告年內十二月三十一日的僱員人數。由於報告年度的受訓員工包括已經離開本集團的員工，故百分比可能超過100%。

Average Training Hours Completed

A total of 10,716 hours of training was delivered to the Key Operations' employees. The average amount of training that each employee received was 23.09 hours. The average training hours received per employee has decreased by 17% compared with the Last Reporting Period.

平均已完成培訓時數

主要業務運作員工合共接受10,716小時培訓。每名僱員已接受的培訓平均時數為23.09小時。與上個報告期間相比，每位僱員已接受的培訓平均時數減少17%。



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Training Topics

Top management of the Group regularly reviews training needs based on the following three major aspects:

- Industry-related – how the Group’s operations fit into the environmental industry and market trend
- Job-related – professional and operational skills required to foster an error-free operating environment at incineration and de-toxification processes
- Task-related – other knowledge and skills for adding business value or to streamline workflow

培訓課題

本集團的最高管理層根據以下三個主要層面定期檢討培訓需要：

- 行業相關－本集團的業務如何適應環保行業及市場趨勢
- 工作相關－培養正確無誤操作焚燒及無害化工序的環境所需的專業及操作技巧
- 任務相關－增加商業價值或精簡工作流程的其他知識及技巧

Industry-related training

- Laws and regulations on the collection, storage, transportation, treatment of hazardous waste
- Industrial standards and relevant ISO certifications
- Risks and potential hazards associated with improper treatment of hazardous waste, study on the 2019 Xiangshui Chemical Plant Explosion

Job-related related training

- Application of laws and regulations, policies and procedures, and emergency response to job-induced hazards
- Categories: occupational health and safety, precaution and response to fire and hazardous events, environmental protection, use of equipment, waste management, work procedures, etc.
- Content: instruction on appropriate methods of entering and leaving the plant areas, guidelines for electricity usage, prohibited behaviours/actions within plant areas, techniques on wearing PPE, usage of fire extinguishers, drills in case of sudden events, etc.

行業相關培訓

- 有關收集、貯存、運輸及處理危險廢物的法律及規例
- 工業標準及相關ISO認證
- 涉及不當處理危險廢物的風險及潛在危險及研究二零一九年響水化工廠爆炸事故

工作相關培訓

- 法律及規例、政策及程序的應用，以及對工作引起的特發事件的應對
- 類別：職業健康及安全、火警及危險事故的預防措施及應對、環境保護、設備用法、廢物管理、工作程序等
- 內容：適當進出廠區方法的指示、用電指引、廠區內受禁止的行為／活動、佩戴個人防護裝備的技巧、滅火器的用法、意外事故演習等

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Task-related training

Task-related training is designed to more specifically fit the tasks that each employee has to carry out in his or her duty. They aim to strengthen employees' knowledge, competency, productivity, and effectiveness related to their job position.

For members of the Board and management staff members in the Hong Kong head office, they take classes on managing the Group, assessing and combatting the underlying risks of the business, and understanding their responsibilities, topics include:

- environmental, social, and governance (ESG),
- anti-corruption,
- establishing relations with investors and media,
- opportunities and challenges brought about by technology,
- use of big data in listed companies,
- responsibilities and obligations of Independent Non-Executive Directors (INED), etc.

For management level employees in the PRC, they may be required to attend courses on corporate management skills, first-aid, environmental and safety related issues in workplace, finance and accounting, depending on their job positions.

For the Group's frontline employees, courses on the following topics may be arranged for them:

- excavation,
- heavy lifting and hoisting machinery operation,
- class III incinerator operation,
- welder certification,
- electrician permit,
- on-site health and safety certification,
- storage, handling, and transportation-specified techniques of hazardous waste, etc.

Most of the time, task-specified techniques are taught in the workplace rather than classrooms such that they can fuse and make use of the theoretical knowledge learnt better into their real-life tasks. The Key Operations also give spontaneous training to employees whenever a work-induced accident occurs, such that employees are reminded of relevant threats and measures are taken to address them.

任務相關培訓

任務相關培訓乃專為更具體適應各僱員於其職務中需履行任務而設，目標是加強僱員的知識、能力、生產力及與其工作崗位有關的有效性。

就香港總辦事處的董事會成員及管理人員而言，彼等參與有關管理本集團、評估及減輕業務相關風險以及了解彼等職責的課堂，題目包括：

- 環境、社會及管治，
- 反貪污，
- 與投資者及傳媒建立關係，
- 科技帶來的機會與挑戰，
- 於上市公司應用大數據，
- 獨立非執行董事的職責及義務等。

就中國的管理層僱員而言，視乎工作崗位而定，彼等或會被要求參加有關企業管理技巧、急救、工作場地的環境及安全相關事宜、財務及會計等課程。

至於本集團的前線僱員，本集團或會安排以下有關課程：

- 挖掘，
- 提重及起重機械操作，
- III類焚燒爐操作，
- 電焊工證，
- 電工證，
- 現場健康及安全證書，
- 危險廢物貯存、處理及運輸專門技能等。

在大多數時間，本集團於工作場地而非課堂中教授任務專門技能，讓僱員能更容易將理論知識融匯及活用於實際任務。當發生工作引致的意外時，主要業務運作亦會向僱員提供相應培訓，提醒僱員相關威脅，並針對有關威脅採取措施。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Identification of Training Needs

The Key Operations offer training opportunities to employees based on annual training plans updated every year. Some of the topics that are always on the agenda include, induction for new employees, occupational health and safety, and waste treatment quality. These topics consists of the most important information for employees that are necessary for discharging their work duties. Examinations are arranged for employees whose positions require them qualifications or certifications. This pushes employees to study and revise for their positions and helps identify employees who are not meeting standards for additional training. When major incidents occur, assessment will be made to decide if training is necessary to prevent future occurrences.

Labour Standards

The Group's Key Operations follow the Labour Law of the PRC, the Labour Contract Law of the PRC, and other related national laws of the PRC in terms of employment management. During the Reporting Year, there were no major changes in management measures and the Group did not note any cases of material non-compliance relating to preventing child and forced labour.

Measures Taken to Avoid Child and Forced Labour

The recruitment process strictly abides by the guidelines of the Group's Human Resources Department as stated in the Corporate Management Policy. Only formal channels of recruitment, including via online platforms, staff referral, local recruitment departments, are used for hiring employees. To ensure that there is no child labour and better protect young adults' interests, some operations require applicants to have reached a minimum age, ranging from 20 to 23, in order to be considered for the job position. Background checks are conducted to verify identities and backgrounds of applicants.

The Group embeds the principles of voluntary commitment and equal treatment at workplace. Forced labour is strictly prohibited. Job candidates are well-informed of the job nature, working environment, work intensity, potential occupational hazards, and on certain occasions, may be invited to do a site visit prior to starting their jobs. This allows the candidates to fully understand what is expected from them and how the working environment is. Through this process, disputes on forced labour can be prevented.

Steps Taken When Such Practices Are Discovered

In case of any violation of labour standards, the Group shall strictly follow the administrative punishment measures as stated in the Group's employee handbook and corporate's procedures to carry out corresponding penalties. Any child or forced labour discovered will be prohibited from work immediately and the Group will perform detailed investigation and rectification accordingly. If necessary, the Group will coordinate with its legal department to carry out investigation and rectification. The Group is committed to finding out the root cause of the violation and set both short-term and long-term policies to prevent any similar situations in the future.

確定培訓需求

主要業務運作為員工提供培訓機會，每年都會更新年度培訓計畫。若干培訓課題恆常包括新僱員入職培訓、職業健康安全、廢物處理品質等議題。這些課題由僱員履行工作職責所需的最重要資訊組成。對於職位要求有資格證書或認證僱員工會獲安排考試。促使員工針對自己職崗位進行研習及複習，並排查未符合標準的僱員進行額外培訓。當發生重大事故時，本集團將進行評估，以決定是否有必要進行培訓，以免重蹈覆轍。

勞工準則

本集團的主要業務運作在僱傭管理方面符合中國勞動法、中國勞動合同法及中國其他相關國家法律。於報告年度內，管理措施並無重大變動，而本集團亦無發現有關防止童工及強制勞工的重大違規情況。

已採取防止童工及強制勞工的措施

本集團的招聘程序嚴格遵守企業管理政策中人力資源部的指引。在聘請僱員時，本集團僅使用正規的招聘渠道，包括網上平台、員工介紹、當地招募部門等。為確保不招聘童工及加強維護青少年的利益，部份部分業務更要求求職者須年滿20歲至23歲的年齡下限，才獲被視為適合擔當有關工作崗位。本集團進行背景審查以核實求職者的身份及背景。

本集團亦將自願承諾及平等待遇的原則融入工作場所，並嚴格禁止強制勞工。本集團向求職者全面告知工作性質、工作環境、工作的勞動程度及潛在的職業危險，並在某些情況下可能會邀請他們在開始工作前進行實地視察，讓求職者清晰明白對他們的期望及認識工作環境。

如發現有關行為時採取的步驟

通過此程序，本集團可防止發生強制勞工的爭議。如有違反勞工準則的情況，本集團將嚴格遵從其僱員手冊及公司程序所列明的行政處罰措施，作出相應的處罰。如發現童工或強迫勞動，會即時禁止工作，而本集團將據此進行詳細調查及整改。如有必要，本集團將與法律部門協調，進行調查與整改。本集團致力於查找違法行為的根本原因，並制定短期及長期政策，以避免日後出現任何類似情況。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

2. Value Chain and Ethics

Supply Chain Management

The Group is in strict compliance with the Procurement Management Policy which has standardised guidelines for purchasing any equipment or supplies.

Suppliers of the Group

The Key Operations engaged a total of 325 suppliers during the Reporting Year. Items provided by these suppliers included packaging materials, raw materials, printing supplies, engineering related equipment supplies, hospitality and office supplies, general equipment supplies, spare parts supplies, and wastewater treatment solutions for the Group. All of them were from Mainland China.

Practices of Engaging Suppliers

All these suppliers had been strictly screened and selected to make sure that they would assist in the Key Operations best. For instance, whenever there is a new purchase, quotations from at least 4 suppliers must be obtained for comparison based on their quality, price, and credit. To minimise the risk associated with engaging with new suppliers, the Group has given priority to suppliers who have worked with the Group before, given that they have passed the annual assessments and provided satisfactory products and services in the previous years. If a new supplier is engaged, the respective provider's past performance and products would be audited to make sure that there is no non-compliance and risks involved. All of these make sure that the supplies provided are of best quality available, and that they will not put any negative effect onto the Group's operations, leading to notoriety of any kind.

Practices Used to Identify ESG Risks

Site visits are carried out to inspect potential suppliers' operations and determine if there are any ESG risks. Documents such as operation permits, certifications, environmental impact assessment, emission records would be checked and verified to ensure that the suppliers are compliant with environmental, labour, and other relevant laws, and not involved in ESG issues that may negatively affect the Group. The Group reviews validity of operation permits once a year. Certifications, other assessments and records are reviewed regularly to ensure their validity.

2. 價值鏈與道德

供應鏈管理

本集團嚴格遵守採購管理政策，以及任何設備或用品的標準化採購指南。

本集團的供應商

主要業務運作於報告年度內聘有合共325名供應商。此等供應商為本集團提供的物品包括包裝材料、原材料、打印用品、工程相關設備用品、接待及辦公室用品、一般設備用品、零件用品，以及廢水處理解決方案。彼等全部來自中國內地。

聘請供應商的慣例

所有此等供應商均經過嚴格篩選及挑選，以確保彼等夠給予主要業務運作最佳協助。例如，當進行新採購時，本集團必須向至少四名供應商取得報價，基於質量、價格及聲譽方面作出比較。為盡量降低聘請新供應商涉及的風險，若曾與本集團合作的供應商於過往年度提供稱心的產品及服務並通過年度考核，本集團將優先聘用彼等。如聘請新供應商，本集團會對相關供應商過去表現及產品進行審核，以確保不會涉及違規及風險。以上種種措施均確保獲供應的用品質量為目前最佳，且不會對本集團的營運造成任何不利影響，導致聲譽受損。

識別環境、社會及管治風險所採用的慣例

本集團進行會實地考察，檢查有興趣供應商的經營情況，確定是否存在任何環境、社會及管治風險。我們會檢查及核實營運許可證、認證、環境影響評估、排放記錄等文件，以確保供應商遵守環境、勞工及其他相關法律，且不涉及可能對本集團造成負面影響的環境、社會及管治問題。本集團每年審查一次經營許可證的有效期，定期審查認證、其他評估及記錄，以確保其有效性。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Practices Used to Promote Environmentally Preferable Products and Services

When the Eco-Plating Specialised Zone engages suppliers, it asks them to sign an agreement where they pledge to adopt environmentally friendly practices. Facilities and machines should be procured from well-reputed brands with industrially recognised or energy efficient certifications, if applicable, to minimise any possible environmental harm incurred.

The Group continuously extends these practices to Group level and strengthen its environmental and social performance requirements for suppliers. It hopes these policies and practices would make ESG issues more important in wider society.

Product/Service Responsibility

The Group mainly engaged in providing ultimate solution to hazardous waste treatment. The Key Operations have no specific policies for quality assurance since their operation processes follow strictly the work process as set out in their operating licenses. In accordance with their operating licenses, the Key Operations have assigned dedicated technical personnel, transportation, and waste storage methods. Environmental pollution preventive measures are key to ensuring service quality of the Key Operations. The Key Operations have implemented preventive and monitoring measures as stated in their operating licenses and have constantly improved their pollution control measures as discussed in section "Emissions (A1)" in the report.

Among the Key Operations, Xiangshui NU, Yancheng NUHF, Zhenjiang Sinotech, and Zhenjiang New Universe were accredited with the GB/T19001-2016/ISO 9001:2015 Quality Management System.

During the Reporting Year, the Group did not note any cases of material non-compliance regarding service responsibility as required by related laws and regulations.

Recalled Products

Due to the business nature of the Group, the Group's operation did not involve recall procedures and no product sold or shipped was recalled for safety and health reasons.

推廣環保產品及服務所採用的慣例

環保電鍍專區在委聘供應商時，會要求供應商簽署協議，承諾採取環保措施。設備及機械應從具有行業認可或節能認證（如適用）的知名品牌採購，以減少對環境可能造成的損害。

本集團持續將有關慣例推廣至集團層面，並加強對供應商的環境及社會表現要求。本集團希望有關政策及慣例能令社會更廣泛關注環境、社會及管治事宜的重要性。

產品／服務責任

本集團主要從事提供危險廢物處理的終極解決方案。主要業務運作並無具體的質量保證政策，因為有關運作流程嚴格遵循其經營許可證中規定的工作流程。根據經營許可證的規定，主要業務運作配備專門的技術人員、運輸和廢物儲存方法。環境污染預防措施是確保主要業務運作服務質量的關鍵。如本報告「排放物(A1)」一節所述，主要業務運作已經實施了其經營許可證中規定的預防和監制措施，並不斷改進其污染控制措施。

在主要業務運作中，響水新宇、鹽城新宇輝豐、鎮江華科及鎮江新宇通過GB/T19001-2016/ISO9001:2015質量管理體系認證。

於報告年度內，本集團並未發現相關法律及規例要求的服務責任方面的任何重大違規個案。

回收產品

基於本集團的業務性質，本集團業務運作並不涉及回收程序，且並無因安全及健康理由而回收已售出或已運送產品。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Handling Complaints

In general, if a complaint is filed, responsible parties shall be identified and notified within 1 hour after the complaint is received, and the status or the result of the case shall be reported back to complainant within 24 hours of complaint received. If the complainant is not satisfied with the results, customer services department shall continue following up with responsible parties. Weekly and monthly summary of complaints, actions taken, and results achieved, are evaluated to assess customer services department's performance, and determine rooms for improvement.

The medical waste treatment operations have been faced with immense challenges since the outbreak of the COVID-19 pandemic as the drastic increase in demand for medical services meant a surge in generation of medical waste which required treatment from the Group. Clients raised concerns regarding the frequency of medical waste collection as such waste was generated more rapidly. The operations responded instantly by allocating more manpower and vehicles to increase the collection frequency.

During the Reporting Year, there were no major complaints filed in the Key Operations.

Intellectual Property

The Group invests in technology advancement and introduces efficient services for improved performance in hazardous waste treatment. It constantly applies new technology and protects such properties by filing for patents. As of the end of the Reporting Year, the Group holds 55 utility model patents and 31 invention patents in PRC. Correspondingly, the Group pays great attention to protect these intellectual properties ("IP") and establishes confidentiality and non-disclosure agreements with all employees and business partners to protect the IP rights, confidential information and trade secrets that are related to business development and interests. The Group reserves the right to take legal actions and claim compensation if any parties violated an agreement.

Quality Assurance

The Group aims to take up responsibility for the impacts that it may induce and continues to find ways to improve its waste treatment quality. Improvement and upgrade works are carried out constantly throughout waste treatment facilities to raise the quality of air emissions and waste treatment. The Key Operations also regularly collect satisfaction surveys from clients to explore room for improvement.

處理投訴

一般而言，如接獲投訴，本集團應在接到投訴1小時內識別出負責人並作出通知，並在接到投訴後24小時內向投訴人匯報個案現況或結果。倘投訴人對結果不滿意，客戶服務部應繼續與負責人進行跟進。本集團使用顧客投訴周報和月報、所採取的處理行動及結果作評估客戶服務部表現以及釐定改進空間。

自新冠疫情以來，醫療服務需求急劇增加，導致需要本集團處理的醫療廢物數量激增，醫療廢物處理工作面臨巨大挑戰。隨著已產生醫療廢物的速度大增，客戶反映他們對醫療廢物的收集頻率的關注。業務部門立即作出反應，調派更多人力及車輛，增加收集次數。

報告年度內，主要業務運作並無重大投訴。

知識產權

本集團投資於技術進步，並推出更高效的服務，改善處理危險廢物的表現。本集團不斷應用新技術，並申請專利保護新技術。直至報告年度完結，本集團在中國擁有55項實用新型專利及31項專利發明。因此，本集團非常重視保護其知識產權("IP")，並建立保密制度及與全體僱員與業務合作夥伴訂立不披露協議，以保護與業務發展及利益相關的知識產權、保密資料及商業秘密。如果任何一方違反協議，本集團保留採取法律行動與要求賠償的權利。

質量保證

本集團致力承擔其可能造成影響的責任，並持續尋求方法改善其廢物處理質量。整個廢物處理設施會不斷進行改進及升級工程，提高空氣排放及廢物的處理品質。主要業務運作亦定期向客戶收集滿意度調查，以探索改善空間。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Data Protection

To prevent any loss or leakage of data caused by any circumstances, be it by vandalism, accidental damage, or virus attacks, the Key Operations strive to take all precautionary measures it can. Some of the measures include, installing firewalls and updating anti-virus software, backing up data files daily, keeping track of the humidity near servers and relevant devices, conducting regular checks on fire equipment, etc. It is also stated clearly on employees' contracts that they shall not use any of its clients' information for personal uses, and that they are subject to penalties if they did.

Anti-corruption

Concluded Legal Cases Regarding Corrupt Practices

During the Reporting Year, there were no concluded legal cases regarding corrupt practices.

Preventive Measures and Whistle-Blowing Procedures

The Group has a Corporate Integrity Management Policy, which has the three major aims of, strengthening employees' ethics, maintaining the Group's reputation, and promoting individuals' self-disciplines and compliance with both external and internal policies. There are also more general guidelines stated in the Employees' Handbook reminding employees to carry out their tasks with legality, compliance, integrity, and honesty. Employees should avoid or report on any business activities that their direct relatives are involved in to avoid a conflict of interest.

All employees are prohibited from partaking any exchanges of materials for a favour, power, and any interest contrary to the principle of honesty and self-discipline. Any violations shall be reported to department heads for handling. Whistle-blowers may also file a complaint to the general manager or director by e-mailing them. As stated in the Procurement Management Policy, purchasing managers are not allowed to accept any gift, rebate, or bribes from supplier as well. If he or she has made a wrongful act due to serious dereliction of duty or violation of the principle, he or she shall be dismissed, and the case shall be submitted to the public security department for further handling.

Anti-corruption Training

The Group regularly reviews and identify training needs. In-house training regarding anti-money laundering has been arranged for members of the Board and certain senior management such that they were well informed of the details of relevant laws and consequences of violating the rules. During the Reporting Year, a total of 493 training hours was dedicated to anti-corruption training for employees and directors. A total of 163 employees, senior management and directors have received training covering topics of promotion on good corporate governance, anti-corruption, key corruption risks and case studies.

資料保障

為防止因任何情況而導致資料損失或外洩，或遭故意破壞、意外損毀或病毒攻擊，主要業務運作竭盡所能採取一切預防措施。部份措施包括安裝防火牆及更新防毒軟件、每日備份資料檔案、記錄伺服器及相關裝置的週邊濕度、定期檢討消防設備等。僱傭合約亦清楚訂明，僱員不得將本集團任何客戶資料作個人用途，否則可遭處罰。

反貪污

有關腐敗行為的已裁決法律案件

於報告年度內，並無有關腐敗行為的已裁決法律案件。

預防措施及舉報程序

本集團訂有公司廉政管理政策，定下三個主要目標，分別是加強僱員的職業道德修養、維護本集團聲譽，以及促進個人自律及遵守外部及內部政策。本集團亦於僱員手冊中列明更多一般指引，提醒僱員履行工作時奉公守法、正直及誠實。僱員應避免或匯報其直系親屬參與其中的任何業務活動，以防止發生利益衝突。

本集團禁止所有僱員參與任何物質交易以換取好處、權力及任何利益，違背誠實及自律的原則。任何違規行為應舉報部門主管處理。告密者亦可透過發送電郵，向總經理提交投訴。採購管理政策載明，採購經理亦不得收受供應商提供的任何禮物、回佣或賄賂。倘其因嚴重失職或違反原則而作出不法行為，本集團會將其革職，並將案件提交給公安部門進一步處理。

反貪污培訓

本集團定期檢討及識別培訓需要。本集團已為董事會成員及若干高級管理人員提供有關反洗錢的內部培訓，讓彼等熟悉有關法例詳情及違規後果。報告年度內，本集團專門為僱員及董事提供總共493個培訓小時的反貪污培訓。共有163名員工、高級管理人員及董事接受培訓，培訓內容包括推廣良好企業管治、反貪污、關鍵貪污風險個案研究等主題。



Figure 12 Jiangsu Xin Yu anti-corruption training session

圖12 江蘇新宇反貪污培訓課程

Community Investment

As a hazardous waste treating business, the Key Operations are located at remote places that are usually far from residential areas. Hence, its activities make little direct impacts on local communities. Having said that, the Group is keen on contributing to surrounding areas with resources it has available.

Focus Areas of Contribution

As an environmental enterprise, the Company focuses on upgrading its operation system and technology to ensure clean environment is protected. It also cares for people of the communities and wishes to give back to the city which enabled the businesses to thrive. The Group aims to keep showcasing its corporate social responsibility and progress further on developing policies related to interacting and integrating with the communities and customers it serves.

Resources Contributed

Community Support

Suqian New Universe sponsors cultural performances for the local disabled person's community on an annual basis.

To enhance fire awareness in the community, Zhenjiang New Universe has consistently performed voluntary firefighting awareness promotion at a Zhenjiang nursing home. Staff of Zhenjiang New Universe has participated in this promotion event.

社區投資

作為處理危險廢物的企業，主要業務運作通常位於遠離民居的偏遠地區，其活動對當地社區的直接影響很小。儘管如此，本集團仍熱衷於利用其可用資源為周邊地區作出貢獻。

專注貢獻範疇

作為環保企業，本公司致力於提升其營運體系及技術，以確保保護環境清潔。本公司亦關心區內人士，希望回饋城市，使企業能夠蓬勃發展。本集團將致力不斷展示企業社會責任，並進一步制訂與所服務社區及客戶互動及融合有關的政策。

所貢獻資源

社區支援

宿遷新宇每年贊助當地殘障社區的文藝演出。

為了提高社區的消防意識，鎮江新宇在一所鎮江護老院貫徹提供義務消防意識宣傳活動。鎮江新宇員工參與是次宣傳活動。

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Summary of the Group's Key Performances

Key Performances Indicators

Emissions

Indicators

指標

	2023	2022	2021
	二零二三年	二零二二年	二零二一年
SO _x (kg) 硫氧化物(千克)	7	10	8
NO _x (kg) 氮氧化物(千克)	1,231	3,201	2,621
PM (kg) 懸浮顆粒(千克)	108	285	120
Total GHG emissions (1,000 tonnes) 溫室氣體總排放量(千噸)	17	23	30
Direct GHG emissions (scope 1) (1,000 tonnes) 直接溫室氣體排放(範圍1)(千噸)	4	7	10
Indirect GHG emissions (scope 2) (1,000 tonnes) 間接溫室氣體排放(範圍2)(千噸)	13	15	20
Other indirect GHG emissions (scope 3) (1,000 tonnes) 其他間接溫室氣體排放(範圍3)(千噸)	<1	<1	<1
GHG intensity (tonnes/m ² building area) 溫室氣體強度(噸/平方米廠區)	0.06	0.08	0.11
GHG intensity (tonnes/employee) 溫室氣體強度(噸/僱員)	37	36	48

Waste Management

Indicators

指標

	2023	2022	2021
	二零二三年	二零二二年	二零二一年
Hazardous waste generated (1,000 tonnes) 危險廢物產量(千噸)	33	38	42
Hazardous waste intensity (tonnes/m ³ wastewater treated) 危險廢物強度(噸/立方米經處理廢水)	0.009	0.01	0.01
Hazardous waste intensity (tonnes/tonne solid waste treated) 危險廢物強度(噸/噸經處理固體廢物)	0.31	0.36	0.34
Non-hazardous waste generated (1,000 tonnes) 非危險廢物產量(千噸)	2	3	4
Non-hazardous waste intensity (tonnes/m ² building area) 非危險廢物強度(噸/平方米廠區)	0.008	0.01	0.02
Non-hazardous waste intensity (tonnes/employee) 非危險廢物強度(噸/僱員)	5	5	7

本集團關鍵績效概要

關鍵績效指標

氣體排放量

	2023	2022	2021
	二零二三年	二零二二年	二零二一年
SO _x (kg)	7	10	8
NO _x (kg)	1,231	3,201	2,621
PM (kg)	108	285	120
Total GHG emissions (1,000 tonnes)	17	23	30
Direct GHG emissions (scope 1) (1,000 tonnes)	4	7	10
Indirect GHG emissions (scope 2) (1,000 tonnes)	13	15	20
Other indirect GHG emissions (scope 3) (1,000 tonnes)	<1	<1	<1
GHG intensity (tonnes/m ² building area)	0.06	0.08	0.11
GHG intensity (tonnes/employee)	37	36	48

廢物管理

	2023	2022	2021
	二零二三年	二零二二年	二零二一年
Hazardous waste generated (1,000 tonnes)	33	38	42
Hazardous waste intensity (tonnes/m ³ wastewater treated)	0.009	0.01	0.01
Hazardous waste intensity (tonnes/tonne solid waste treated)	0.31	0.36	0.34
Non-hazardous waste generated (1,000 tonnes)	2	3	4
Non-hazardous waste intensity (tonnes/m ² building area)	0.008	0.01	0.02
Non-hazardous waste intensity (tonnes/employee)	5	5	7

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Energy usage

能源使用

Indicators 指標	2023 二零二三年	2022 二零二二年	2021 二零二一年
Total energy consumption (1,000 kWh) 能源總耗量(千千瓦時) ¹	38,501	55,452	72,367
Purchased electricity (1,000 kWh) 外購電力(千千瓦時)	22,972	26,630	31,719
Natural gas for stationary source (1,000 m ³) 固定源的天然氣(千立方米)	700	1,260	1,549
LPG for stationary source (1,000 kg) 固定源的液化石油氣(千克)	0.8	/	/
Fuel oil for stationary source (1,000 litres) 固定源的燃油(千升)	/	666	687
Diesel for stationary source (1,000 litres) 固定源的柴油(千升)	467	344	1,369
Petrol for mobile sources (1,000 litres) 流動源的汽油(千升)	33	56	66
Diesel for mobile sources (1,000 litres) 流動源的柴油(千升)	364	527	369
Energy intensity (kWh/m ³ wastewater treated) 能源強度(千瓦時/立方米經處理廢水)	4	5	7
Energy intensity (kWh/tonne solid waste treated) 能源強度(千瓦時/噸經處理固體廢物)	393	550	655
Energy intensity (kWh/m ² office area) 能源強度(千瓦時/平方米辦公室面積)	55	86	85

Water Usage

用水

Indicators 指標	2023 二零二三年	2022 二零二二年	2021 二零二一年
Water consumption (1,000 m ³) 耗水量(千立方米)	887	696	606
Water use intensity (m ³ /tonne solid waste treated) 用水強度(立方米/噸經處理固體廢物)	2.93	4.34	4.08
Water use intensity (m ³ /m ³ wastewater treated) 用水強度(立方米/立方米經處理廢水)	1.39	0.78	0.40
Water use (m ³ /m ² office area) 用水量(立方米/平方米辦公室面積)	0.22	0.09	0.09

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Employment Indicators 指標

Employment Indicators 指標	僱傭		
	2023 二零二三年	2022 二零二二年	2021 二零二一年
Number of employees ² 僱員人數 ²	465	638	627
Percentage of full-time employees (%) 全職僱員佔比(%)	99.8	99.8	99.7
Percentage of part-time employees (%) 兼職僱員佔比(%)	0.2	0.2	0.3
Percentage of female employees (%) 女性僱員佔比(%)	19	20	19
Percentage of male employees (%) 男性僱員佔比(%)	81	80	81
Percentage of employees working frontline (%) 前線工作僱員佔比(%)	85	77	77
Percentage of middle-level management employees (%) 中級管理層僱員佔比(%)	11	20	20
Percentage of senior-level management employees (%) 高級管理層僱員佔比(%)	4	3	3
Percentage of employees aged 18-25 (%) 18-25歲僱員佔比(%)	1	2	3
Percentage of employees aged 26-35 (%) 26-35歲僱員佔比(%)	20	26	28
Percentage of employees aged 36-45 (%) 36-45歲僱員佔比(%)	35	33	33
Percentage of employees aged 46-55 (%) 46-55歲僱員佔比(%)	32	30	29
Percentage of employees aged above 55 (%) 55歲以上僱員佔比(%)	12	9	7
Number of employees who left the Group 離開本集團的僱員人數	165	80	142
Turnover of full-time employees (%) ³ 全職僱員流失率(%) ³	36	13	23
Turnover of part-time employees (%) 兼職僱員流失率(%)	0	0	0
Turnover of female employees (%) 女性僱員流失率(%)	43	5	11
Turnover of male employees (%) 男性僱員流失率(%)	34	14	25
Turnover of employees working frontline (%) 前線工作僱員流失率(%)	37	13	25
Turnover of middle-level management employees (%) 中級管理層僱員流失率(%)	22	11	15
Turnover of senior-level management employees (%) 高級管理層僱員流失率(%)	32	13	14
Turnover of employees aged 18-25 (%) 18-25歲僱員流失率(%)	100	82	65
Turnover of employees aged 26-35 (%) 26-35歲僱員流失率(%)	68	15	32
Turnover of employees aged 36-45 (%) 36-45歲僱員流失率(%)	28	15	20
Turnover of employees aged 46-55 (%) 46-55歲僱員流失率(%)	30	4	15
Turnover of employees aged above 55 (%) 55歲以上僱員流失率(%)	13	13	7

² Number of employees were those working within the reporting scope at the end of the Reporting Year

³ Turnover = number of employees who left / number of employees at the end of the Reporting Year

² 僱員人數以報告年度末於報告範圍內工作的人員計算

³ 流失率 = 離職僱員人數 / 於報告年度結束時的僱員人數

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

Employee Safety Indicators 指標

僱員安全

	2023 二零二三年	2022 二零二二年	2021 二零二一年
Work-related fatalities 與工作有關的死亡事故	0	0	0
Fatality rate (%) 死亡率(%)	0	0	0
Number of work injuries (cases) 因工受傷數目(宗)	8	6	4
Total lost days due to work injuries 因工傷損失工作總日數	365	287	378
Cases resulting in less than or equal to 3 lost working days 導致損失少於或等於3個工作日的個案	3	0	0
Cases resulting in more than 3 working days 導致損失多於3個工作日的個案	5	6	4

Employee Training Indicators 指標

僱員培訓

	2023 二零二三年	2022 二零二二年	2021 二零二一年
Number of employees trained ⁴ 已接受培訓的僱員人數 ⁴	464	631	593
Percentage of employees trained (%) ⁵ 已接受培訓的僱員佔比(%) ⁵	100	99	95
Percentage of female employees trained (%) 已接受培訓的女性僱員佔比(%)	100	98	95
Percentage of male employees trained (%) 已接受培訓的男性僱員佔比(%)	100	99	94
Percentage of frontline employees trained (%) 已接受培訓的前線僱員佔比(%)	100	103	96
Percentage of middle management employees trained (%) 已接受培訓的中級管理層僱員佔比(%)	100	84	87
Percentage of senior management employees trained (%) 已接受培訓的高級管理層僱員佔比	100	100	95
Total hours of training received by employees 僱員已接受培訓的總時數	10,716	17,738	15,812
Average hours of training received per employee ⁶ 每名僱員已接受培訓的平均時數 ⁶	23	28	25
Average hours of training a female employee received 每名女性僱員已接受培訓的平均時數	24	25	28
Average hours of training a male employee trained 每名男性僱員已接受培訓的平均時數	23	29	25
Average hours of training a frontline employee received 每名前線僱員已接受培訓的平均時數	22	29	23
Average hours of training a middle management employee received 每名中級管理層僱員已接受培訓的平均時數	27	23	31
Average hours of training a senior management employee received 每名高級管理層僱員已接受培訓的平均時數	36	28	47

⁴ Employees trained include employees who left the Group during the Reporting Year, which may contribute to trained percentages being over 100%.

⁵ Percentage of employees trained is the number of employees trained throughout the year divided by the number of employees at the end of the Reporting Year

⁶ Average hours of training received per employee is the total hours of training received by employees divided by the total number of employees at the end of the Reporting Year

⁴ 由於報告年度的受訓員工包括已經離開本集團的員工，故百分比可能超過100%。

⁵ 已接受培訓的僱員佔比指於整個年度內已接受培訓的僱員人數除以報告年度末的僱員人數

⁶ 每名僱員已接受培訓的平均時數指僱員已接受培訓的總時數除以報告年度末的僱員總人數

APPENDIX – HKEX ESG REPORTING GUIDE 附錄－聯交所環境、社會及管治報告指引索引

General Disclosures and KPIs 一般披露及關鍵績效指標		
General Disclosures and KPIs 一般披露及關鍵績效指標	Description 描述	Relevant Section 相關章節
Environmental 環境		
Aspect A1: Emissions 層面A1：排放		
General disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste. 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無害廢棄物的產生等的：(a) 政策；及(b) 遵守對發行人有重大影響的相關法律及規例的資料。	Emissions 排放物
KPI A1.1 關鍵績效指標A1.1	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	Emissions - Types of Emissions 排放物－排放物的種類
KPI A1.2 關鍵績效指標A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions and, where appropriate, intensity. 直接(範圍1)及能源間接(範圍2)溫室氣體排放量及(如適用)密度。	Emissions – Greenhouse Gas Emissions 排放物－溫室氣體排放量
KPI A1.3 關鍵績效指標A1.3	Total hazardous waste produced and, where appropriate, intensity. 所產生有害廢棄物總量及(如適用)密度。	Hazardous Waste Produced 所產生危險廢物
KPI A1.4 關鍵績效指標A1.4	Total non-hazardous waste produced and, where appropriate, intensity. 所產生無害廢棄物總量及(如適用)密度。	Non-hazardous Waste Produced 所產生非危險廢物
KPI A1.5 關鍵績效指標A1.5	Description of emission target(s) set and steps taken to achieve them. 描述所訂立的排放量目標及為達到這些目標所採取的步驟。	Emission Reduction 減排
KPI A1.6 關鍵績效指標A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them. 排放物種類及相關排放數據。	Waste Handling and Reduction 廢物處理及減排

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

General Disclosures and KPIs		
一般披露及關鍵績效指標	Description 描述	Relevant Section 相關章節
Aspect A2: Use of Resources 層面A2：資源使用		
General disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源(包括能源、水及其他原材料)的政策。	Use of Resources 資源使用
KPI A2.1 關鍵績效指標A2.1	Direct and/or indirect energy consumption by type in total and intensity. 按類型劃分的直接及/或間接能源(如電、氣或油)總耗量及密度。	Energy Consumption – Energy Powered by Consumption of Fuel Indirect Energy Consumption – Purchased Electricity and Recovered Steam 能源消耗—燃燒燃料發電 間接能源消耗—外購電力及回收蒸汽
KPI A2.2 關鍵績效指標A2.2	Water consumption in total and intensity. 總耗水量及密度。	Water consumption 水資源消耗量
KPI A2.3 關鍵績效指標A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them. 描述所訂立的能源使用效益目標及為達到這些目標所採取的步驟。	Energy Use Efficiency 能源使用效率
KPI A2.4 關鍵績效指標A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency target(s) set and steps taken to achieve them. 描述求取適用水源上可有任何問題，以及所訂立的用水效益目標及為達到這些目標所採取的步驟。	Water Use Efficiency 水資源使用效率
KPI A2.5 關鍵績效指標A2.5	Total packaging material used for finished products and, if applicable, with reference to per unit produced. 製成品所用包裝材料的總量及(如適用)每生產單位佔量。	Packaging Material 包裝材料
Aspect A3: The Environment and Natural Resources 層面A3：環境及天然資源		
General Disclosure 一般披露	Policies on minimising the issuer's significant impact on the environment and natural resources. 減低發行人對環境及天然資源造成重大影響的政策。	Pursuing Environmental Excellence 追求卓越環境
KPI A3.1 關鍵績效指標A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them. 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動。	Pursuing Environmental Excellence 追求卓越環境

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

General Disclosures and KPIs 一般披露及關鍵績效指標		
	Description 描述	Relevant Section 相關章節
Aspect A4: Climate Change 層面A4：氣候變化		
General Disclosure 一般披露	Policies on identification and mitigation of significant climate-related issues which have impacted, and those which may impact, the issuer. 識別及應對已經及可能會對發行人產生影響的重大氣候相關事宜的政策。	Combating Climate Change 抵抗氣候變化
KPI A4.1 關鍵績效指標A4.1	Description of the significant impacts of climate-related issues which have impacted, and those which may impact, the issuer, and actions taken to manage them. 描述已經及可能會對發行人產生影響的重大氣候相關事宜，及應對行動。	Combating Climate Change 抵抗氣候變化
Social 社會		
Employment and Labour Practices 僱傭及勞工常規		
Aspect B1: Employment 層面B1：僱傭		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare. 有關薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利的：(a) 政策；及(b) 遵守對發行人有重大影響的相關法律及規例的資料。	Employment 僱傭
KPI B1.1 關鍵績效指標B1.1	Total workforce by gender, employment type, age group and geographical region. 按性別、僱傭類型、年齡組別及地區劃分的僱員總數。	Total Workforce Key Performance Indicators 僱員總數 關鍵績效指標
KPI B1.2 關鍵績效指標B1.2	Employee turnover rate by gender, age group and geographical region. 按性別、年齡組別及地區劃分的僱員流失比率。	Employee Turnover Key Performance Indicators 僱員流失情況 關鍵績效指標

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

General Disclosures and KPIs 一般披露及關鍵績效指標		
	Description 描述	Relevant Section 相關章節
Aspect B2: Health and Safety 層面B2：健康與安全		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards. 有關提供安全工作環境及保障僱員避免職業性危害的：(a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Employee Health and Safety 僱員健康及安全
KPI B2.1 關鍵績效指標B2.1	Number and rate of work-related fatalities occurred in each of the past three years including the reporting year. 過去三年（包括匯報年度）每年因工亡故的人數及比率。	Work-related Fatality Key Performance Indicators 與工作有關的死亡事故關鍵績效指標
KPI B2.2 關鍵績效指標B2.2	Lost days due to work injury. 因工傷損失工作日數。	Lost Days Due to Work Injury Key Performance Indicators 因工傷損失工作日數關鍵績效指標
KPI B2.3 關鍵績效指標B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored. 描述所採納的職業健康與安全措施，以及相關執行及監察方法。	Group's Health and Safety Policy 本集團的健康及安全政策
Aspect B3: Development and Training 層面B3：發展及培訓		
General Disclosure 一般披露	Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities. 有關提升僱員履行工作職責的知識及技能的政策。描述培訓活動。	Development and Training 發展及培訓
KPI B3.1 關鍵績效指標B3.1	The percentage of employees trained by gender and employee category. 按性別及僱員類別劃分的受訓僱員百分比。	Percentage of Employees Trained Key Performance Indicators 已接受培訓的僱員佔比 關鍵績效指標
KPI B3.2 關鍵績效指標B3.2	The average training hours completed per employee by gender and employee category. 按性別及僱員類別劃分，每名僱員完成受訓的平均時數。	Average Training Hours Completed Key Performance Indicators 平均已完成培訓時數 關鍵績效指標

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

General Disclosures and KPIs 一般披露及關鍵績效指標		
	Description 描述	Relevant Section 相關章節
Aspect B4: Labour Standards 層面B4：勞工準則		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child or forced labour. 有關防止童工或強制勞工的：(a) 政策；及(b) 遵守對發行人有重大影響的相關法律及規例的資料。	Labour Standards 勞工準則
KPI B4.1 關鍵績效指標B4.1	Description of measures to review employment practices to avoid child and forced labour. 描述檢討招聘慣例的措施以避免童工或強制勞工。	Measures Taken to Avoid Child and Forced Labour 已採取防止童工及強制勞工的措施
KPI B4.2 關鍵績效指標B4.2	Description of steps taken to eliminate such practices when discovered. 描述在發現違規情況時消除有關情況所採取的步驟。	Steps Taken When Such Practices Are Discovered 如發現有關行為時採取的步驟
Operating Practices 營運慣例		
Aspect B5: Supply Chain Management 層面B5：供應鏈管理		
General Disclosure 一般披露	Policies on managing environmental and social risks of the supply chain. 管理供應鏈的環境及社會風險政策。	Supply Chain Management 供應鏈管理
KPI B5.1 關鍵績效指標B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目。	Suppliers of the Group 本集團的供應商
KPI B5.2 關鍵績效指標B5.2	Description of practices relating to engaging supplies, number of supplies where the practices are being implemented, and how they are implemented and monitored. 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目，以及相關執行及監察方法。	Practices of Engaging Suppliers 聘請供應商的慣例
KPI B5.3 關鍵績效指標B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored. 描述有關識別供應鏈每個環節的環境及社會風險的慣例，以及相關執行及監察方法。	Practices Used to Identify ESG Risks 識別環境、社會及管治風險所採用的慣例
KPI B5.4 關鍵績效指標B5.4	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored. 描述在揀選供應商時促使多用環保產品及服務的慣例，以及相關執行及監察方法。	Practices Used to Promote Environmentally Preferable Products and Services 推廣環保產品及服務所採用的慣例

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

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

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2023

二零二三年環境、社會及管治報告

General Disclosures and KPIs 一般披露及關鍵績效指標		
	Description 描述	Relevant Section 相關章節
Aspect B7: Anti-corruption 層面B7：反貪污		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering. 有關防止賄賂、勒索、欺詐及洗黑錢的：(a) 政策；及(b) 遵守對發行人有重大影響的相關法律及規例的資料。	Anti-corruption 反貪污
KPI B7.1 關鍵績效指標B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases. 於匯報期內對發行人或其僱員提出並已審結的貪污訴訟案件的數目及訴訟結果。	Concluded Legal Cases Regarding Corrupt Practices 有關腐敗行為的已裁決法律案件
KPI B7.2 關鍵績效指標B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored. 描述防範措施及舉報程序，以及相關執行及監察方法。	Preventive Measures and Whistle-Blowing Procedures 預防措施及舉報程序
KPI B7.3 關鍵績效指標B7.3	Description of anti-corruption training provided to directors and staff. 描述向董事及員工提供的反貪污培訓。	Anti-corruption Training 反貪污培訓
Aspect B8: Community Investment 層面B8：社區投資		
General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests. 有關以社區參與來了解營運所在社區需要和確保其業務活動會考慮社區利益的政策。	Community Investment 社區投資
KPI B8.1 關鍵績效指標B8.1	Focus areas of contribution. 專注貢獻範疇(如教育、環境事宜、勞工需求、健康、文化、體育)。	Focus Areas of Contribution 專注貢獻範疇
KPI B8.2 關鍵績效指標B8.2	Resources contributed to the focus area. 在專注範疇所動用資源(如金錢或時間)。	Resources Contributed 所貢獻資源



ASSURANCE STATEMENT

SGS HONG KONG'S REPORT ON SUSTAINABILITY ACTIVITIES IN THE NEW UNIVERSE ENVIRONMENTAL GROUP LIMITED'S ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT FOR 2023

NATURE OF THE ASSURANCE

SGS Hong Kong Limited (hereinafter referred to as SGS) was commissioned by the New Universe Environmental Group Limited (hereinafter referred to as New Universe) to conduct an independent assurance of the contents of the *Environmental, Social and Governance Report 2023 of the New Universe* (hereinafter referred to as the Report) presented from 1 January 2023 to 31 December 2023.

INTENDED USERS OF THIS ASSURANCE STATEMENT

This Assurance Statement is provided with the intention of informing all New Universe's Stakeholders.

RESPONSIBILITIES

The information in the Report and its presentation are the responsibility of the directors or governing body (as applicable) and the management of New Universe. SGS has not been involved in the preparation of any of the material included in the Report.

Our responsibility is to express an opinion on the text, data, graphs and statements within the scope of assurance with the intention to inform all New Universe's stakeholders.

ASSURANCE STANDARDS, TYPE AND LEVEL OF ASSURANCE

The SGS ESG & Sustainability Report Assurance protocols used to conduct assurance are based upon internationally recognized assurance guidance and standards.

The assurance of this report has been conducted according to the following Assurance Standards and has been conducted at a limited level of scrutiny.

Assurance Standard Options

SGS ESG & SRA Assurance Protocols (based on GRI Principles and guidance in AA1000)

SCOPE OF ASSURANCE AND REPORTING CRITERIA

The scope of the assurance included evaluation of quality, accuracy and reliability of specified performance information as detailed below and evaluation of adherence to the following reporting criteria:

Reporting Criteria Options

Stock Exchange of Hong Kong Limited, Environmental, Social and Governance Reporting Guide (HKEx ESG)

ASSURANCE METHODOLOGY

The assurance comprised a combination of pre-assurance research, interviews with relevant employees in HK; documentation and record review and validation with external bodies and/or stakeholders where relevant.

LIMITATIONS AND MITIGATION

Financial data drawn directly from independently audited financial accounts has not been checked back to

source as part of this assurance process. Note here any other specific limitations for the assurance engagement and actions taken to mitigate those limitations.

STATEMENT OF INDEPENDENCE AND COMPETENCE

The SGS Group of companies is the world leader in inspection, testing and verification, operating in more than 140 countries and providing services including management systems and service certification; quality, environmental, social and ethical auditing and training; environmental, social and sustainability report assurance. SGS affirm our independence from New Universe, being free from bias and conflicts of interest with the organisation, its subsidiaries and stakeholders.

The assurance team was assembled based on their knowledge, experience and qualifications for this assignment, and comprised auditors registered with IRCA EMS Principal Auditor, ISO 26000, nominated tutor of GRI Standards and experience on the SRA assurance service provisions.

ASSURANCE OPINION

On the basis of the methodology described and the verification work performed, we are satisfied that the specified performance information included in the scope of assurance is accurate, reliable, has been fairly stated and has been prepared, in all material respects, in accordance with the reporting criteria.

In our opinion, the contents of the report meet the requirements of HKEx ESG.

Signed:

For and on behalf of SGS Hong Kong Limited



Miranda Kwan
Director
Business Assurance
5 April 2024

WWW.SGS.COM



驗證聲明

香港通用檢測認證有限公司對新宇環保集團有限公司 於2023年環境、社會及管治報告之驗證聲明

驗證的性質

香港通用檢測認證有限公司獲新宇環保集團有限公司(以下簡稱「新宇」)委託，對《新宇環保集團有限公司的環境、社會及管理報告 2023》(以下簡稱「報告」)於 2023 年 1 月 1 日至 2023 年 12 月 31 日有關可持續發展的內容進行獨立驗證。

本驗證的使用者

本驗證聲明旨在告知新宇的所有持份者。

職責

報告中的資訊及匯報由新宇的董事或管治機構(如適用)及其管理層負責。香港通用檢測認證有限公司並未參與其報告任何材料的準備工作。

我們的責任是對驗證範圍內的文本、數據、圖表和聲明表達意見，旨在告知新宇的所有持份者。

驗證標準、驗證類型及級別

SGS 用於執行驗證工作引用之 ESG 及可持續發展報告驗證規章，是依據國際認可之驗證指引及標準為基礎。

該報告的驗證乃根據以下的驗證標準進行，並以有限責任的級別進行：

驗證標準項目

SGS ESG 及可持續發展報告驗證規章(以 GRI 原則及 AA1000 為基礎)

驗證及報告要求範圍

驗證的範圍包括評估特定績效資訊的品質、準確性及可靠性，此評估依據之報告準則如下：

報告準則項目

香港聯合交易所有限公司《環境、社會及管治報告指引》(HKEx ESG)

驗證方法

驗證包括驗證活動前調研、相關員工訪談，文件和紀錄的審查以及與相關之外部機構和/或持份者的確認。

使用限制及措施

獨立審計的財務帳目中的財務數據，並未作為本驗證過程的組成部份與來源資訊進行核對。請垂注本文有關驗證委託的任何局限以及緩減有關局限而採取的行動。

獨立性與能力聲明

SGS 集團在檢驗、測試和鑒定的領域在世界上具有領先地位，我們在超過 140 多個國家營運和提供服務，服務包括管理體系及服務認證；品質、環境、社會和道德審核和培訓以及環境、社會及可持續發展報告驗證。SGS 香港申明我們對新宇、其附屬公司和持份者的獨立性上沒有任何的偏見和利益衝突。

驗證團隊是由具備與此項任務相關的知識、經驗和資歷的人員組成，當中包括 IRCA 註冊的 EMS 首席審核員、ISO 26000 審核員、GRI 標準委任培訓導師及具備可持續發展報告驗證服務經驗的人員。

驗證意見

基於上述的驗證方法和已完成的驗證工作，在驗證範圍內的特定績效資訊是準確及可靠，並已作出中肯的陳述，而且在所有重大方面已符合報告標準的編制準則，因此使我們感到滿意。

驗證團隊認為，報告內容符合香港聯合交易所有限公司《環境、社會及管治報告指引》的要求。

簽字：

代表香港通用檢測認證有限公司



關靜儀
總監
管理與保證

2024 年 4 月 5 日
www.sgs.com



NEW UNIVERSE

ENVIRONMENTAL GROUP LIMITED

新宇環保集團有限公司