

普星能量有限公司

PUXING ENERGY LIMITED

(Incorporated in the Cayman Islands with limited liability 於開曼群島註冊成立的有限公司)

Stock Code 股份代號 : 00090

Environmental, Social
and Governance Report

2021 環境、社會
及管治報告

CONTENTS

目錄

02	About the Group 關於本集團	28	Environmental Protection 環境保護
04	About this Report 關於本報告	54	Employee Care 員工關懷
07	Message from the Directors 董事寄語	69	Operation Responsibility 營運責任
09	ESG Statement of the Board 董事會ESG聲明	80	Co-Building the Community 社區共建
11	Corporate Governance 企業管治	83	Overview of Key Performance Indicators (KPIs) 關鍵績效指標總覽
12	ESG Governance ESG管治	91	Appendix 附錄

ABOUT THE GROUP

關於本集團

Puxing Energy Limited (hereinafter referred to as the “Company” or “Puxing Energy”, together with its subsidiaries, collectively, “we,” “us,” “our” or the “Group”) is mainly engaged in the development, operation and management of natural gas-fired power plants in the People’s Republic of China (hereinafter referred to as the “PRC” or “China”). The five gas-fired power plants wholly owned by the Group in Zhejiang Province, the PRC, include Puxing (Anji) Gas Turbine Thermal Power Co., Ltd. (“Anji Power Plant”), Zhejiang Puxing Jingxing Natural Gas Power Co., Ltd. (“Jingxing Power Plant”), Zhejiang Puxing Deneng Natural Gas Power Co., Ltd. (“Deneng Power Plant”), Zhejiang Puxing Bluesky Natural Gas Power Co., Ltd. (“Bluesky Power Plant”) and Quzhou Puxing Gas Turbine Thermal Power Co., Ltd. (“Quzhou Power Plant”). These five power plants (collectively referred to as the “Operating Stations”, each an “Operating Station”, in this Report) are operated as peaking power plants, which are mainly responsible for arranging generation units for power generation to meet the peak demand of the power grid in accordance with the requirements of the relevant government authorities in Zhejiang Province. In addition, apart from power generation business, Anji Power Plant and Quzhou Power Plant under the Group carry out heating business that provide steam to nearby manufacturers through heating pipes. Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant under the Group have established photovoltaic power generation units, which are mainly used to supplement the self-consumption electricity of the power plants, and the remainder will be sold to the power grid.

The aggregate installed capacity of these five power plants of the Group amounted to 687.73 megawatts (MW) (2020: 687.73MW), including 731 kilowatts (kW) in aggregate (2020: 731kW) of photovoltaic power generating units of Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant. The total amount of electricity generated by photovoltaic power generation for the financial year from 1 January 2021 to 31 December 2021 (hereinafter referred to as the “Year”) was equivalent to a reduction of carbon dioxide (CO₂) emissions of 532 tonnes (2020: 471 tonnes), representing an increase of approximately 13.0% over the reduction in CO₂ emissions due to photovoltaic power generation last year.

普星能量有限公司 (簡稱「本公司」或「普星能量」, 連同其附屬公司統稱「我們」或「本集團」) 主要在中華人民共和國 (簡稱「中國」) 從事以天然氣為燃料的電廠建設、經營及管理。本集團於中國浙江省內全資擁有五家燃氣電廠, 包括: 普星(安吉)燃機熱電有限公司 (簡稱「安吉電廠」)、浙江普星京興然氣發電有限公司 (簡稱「京興電廠」)、浙江普星德能然氣發電有限公司 (簡稱「德能電廠」)、浙江普星藍天然氣發電有限公司 (簡稱「藍天電廠」) 及衢州普星燃機熱電有限公司 (簡稱「衢州電廠」)。五家燃氣電廠 (於本報告內統稱「各營運點」) 皆為調峰電廠, 主要負責按照浙江省相關政府部門電網頂峰要求安排發電機組發電。此外, 除了發電業務, 本集團的安吉電廠及衢州電廠設有供熱業務, 透過供熱管道向附近廠家提供蒸汽。本集團的京興電廠、安吉電廠及衢州電廠設有光伏發電機組, 主要用作補充電廠自用電量, 剩餘部份出售予電網。

本集團五家電廠總裝機容量達687.73兆瓦 (二零二零年: 687.73兆瓦), 當中包括京興電廠、安吉電廠及衢州電廠合共731千瓦 (二零二零年: 731千瓦) 的光伏發電機組。於二零二一年一月一日至二零二一年十二月三十一日之財政年度 (簡稱「本年度」或「年內」) 由光伏發電產生的總發電量相當於減少了532公噸 (二零二零年: 471公噸) 的二氧化碳排放, 較去年光伏發電所減少的二氧化碳排放量增加約13.0%。

ABOUT THE GROUP

關於本集團

Energy supply of the Group for the Year 本集團年度供能	2021 2021年	2020 2020年	Unit 單位
Natural gas power generation 天然氣發電量	383,230	326,394	MWh 兆瓦時
Electricity generated by natural gas power sold 天然氣發電出售電量	372,589	315,521	MWh 兆瓦時
Heat generated by natural gas ¹ 天然氣發熱量 ¹	196,225	133,491	ton 噸
Heat generated by natural gas sold 天然氣售熱量	173,791	120,494	ton 噸
Photovoltaic power generation ² 光伏發電量 ²	791	771	MWh 兆瓦時
Electricity generated by photovoltaic power sold ³ 光伏發電出售電量 ³	100	82	MWh 兆瓦時

Based on the beginning year of the “14th Five-Year Plan” and the year for convergence and transformation of the “Two Centenaries” goal, as one of our key missions in 2021, the proper carrying out of carbon emission peaking and carbon neutrality has profound meaning in terms of achieving stable and sustainable economic development and green and high-quality development. Against this background, the Group adheres to the development of energy business as its core, helps maintain the resilience, safety, and stability of the energy system while identifying opportunities from the implementation of the national new energy policies, aims to provide support in achieving the scale development of clean energy, hence creating value to the Group’s shareholders and stakeholders in the long run.

立足於「十四五」規劃的開局之年和「兩個百年」目標交匯與轉換之年，作為二零二一年的重點任務之一，做好碳達峰、碳中和工作對實現經濟行穩致遠、實現綠色高品質發展均具有深遠意義。在此背景下，本集團將堅持以能源為發展核心，在協助保持能源系統韌性、安全性和穩定性的同時，在國家新能源政策下尋找機遇，為清潔能源實現規模化發展提供助力，並長遠為本集團的股東及持份者創造價值。

¹ Only Anji Power Plant and Quzhou Power Plant are engaged in natural gas heating.

² Only Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant are equipped with photovoltaic power generating units.

³ Jingxing Power Plant sells the electricity from photovoltaic power generation, while the electricity from photovoltaic power generation at Anji Power Plant and Quzhou Power Plant is for self-consumption only.

¹ 僅安吉電廠及衢州電廠涉及天然氣發熱。

² 僅京興電廠、安吉電廠及衢州電廠設有光伏發電機組。

³ 京興電廠有外售光伏發電的電力，而安吉電廠及衢州電廠的光伏發電電力僅供自用。

ABOUT THIS REPORT

關於本報告

This is the sixth Environmental, Social and Governance Report (hereinafter referred to as the “Report”) published by the Group. This Report details the Group’s philosophy on sustainable development, presents the stakeholders with the policies and initiatives on sustainable development implemented by the Group and its progress and performance during the Year to improve stakeholders’ understanding and confidence on the Group.

REPORTING SCOPE

Time Frame

This Report is complementary to the Group’s 2021 Annual Report, and it reports the Group’s Environmental, Social and Governance (ESG) performance during the Year, of which part of the content can be traced back to the previous year or extended to the disclosure date of the Report. For details of corporate governance, please refer to the “Corporate Governance Report” contained in the 2021 Annual Report of the Group.

Geographical Scope

During the Year, this Report reports the annual performance related to power generation and heating business of the Group’s Operating Stations in Zhejiang Province. The operating income from the Operating Stations accounted for all the total revenue of the Group. This Report does not include other operations of the Group (such as its principal place of business in Hong Kong and its subsidiary namely Wenling Juneng Wind Power Generation Co., Ltd.). The Group will regularly review the reporting scope to provide investors and other stakeholders with more accurate and comprehensive information.

本報告為本集團發佈的第六份《環境、社會及管治報告》(簡稱「本報告」)。本報告詳述本集團於可持續發展的理念，向持份者呈現本集團所落實的可持續發展政策及措施，以及年內的進展及表現，以增強持份者對本集團的了解與信心。

報告範圍

時間範圍

本報告與本集團二零二一年年度報告相輔相成，匯報本集團於本年度的環境、社會及管治(簡稱「ESG」)表現(部分內容追溯至以前年度或延伸至報告披露日)。有關企業管治的詳細內容，請參閱本集團二零二一年年度報告的《企業管治報告》。

地理範圍

本年度，本報告匯報本集團於浙江省各營運點的發電及供熱業務全年之表現。各營運點的營運收益佔本集團的全部收益。本報告尚未涵蓋本集團其他營運(如：位於香港的主要營業地點及附屬公司溫嶺聚能風力發電有限公司)。本集團將定期檢視報告範圍，為投資者及其他持份者提供更準確及全面的資訊。

ABOUT THIS REPORT

關於本報告

REPORTING GUIDELINES

This Report is prepared in accordance with the “Environmental, Social and Governance Reporting Guide” (the “ESG Guide”) in Appendix 27 of the Main Board Listing Rules (the “Listing Rules”) issued by The Stock Exchange of Hong Kong Limited (the “Stock Exchange”) and has been prepared on the basis of the four reporting principles set out therein, namely materiality, quantitative, balance and consistency. A complete content index is attached to the last chapter of this Report for easy reference by readers to the ESG Guide when reading this Report. Unless otherwise stated, the currencies involved in this Report are all measured in Renminbi (RMB).

報告準則

本報告依循香港聯合交易所有限公司（簡稱「聯交所」）發佈的《主板上市規則》（簡稱「《上市規則》」）附錄二十七《環境、社會及管治報告指引》（簡稱「《ESG指引》」），並以其載列的四項匯報原則，包括：重要性、量化、平衡及一致性作為本報告的編寫基礎。本報告最後一章附有完整索引，以便讀者按《ESG指引》閱讀本報告。如無特別說明，本報告中涉及的貨幣均以人民幣為計量單位。

Reporting principle 匯報原則

Application in this Report 在本報告中的應用

Materiality 重要性

The Group determined the major ESG issues through stakeholders’ survey and materiality assessment, and the relevant process and results were disclosed in the section headed “Materiality Assessment” in the “ESG Governance” of this Report.

本集團透過持份者調研問卷和重要性評估確定主要ESG議題，相關過程與結果已經在本報告「ESG管治」中的「重要性評估」一節披露。

Quantitative 量化

Quantitative information is recorded, estimated and disclosed by the Group and compared with previous performance where applicable. The Group has engaged a professional external consultant to conduct a carbon assessment and other environmental KPIs estimates in accordance with the Chinese national standard of “Guidelines for Accounting and Reporting the Greenhouse Gas Emission — Part I: Power Plants” and international standards, such as ISO 14064-1 and Greenhouse Gas Protocol. The information on the social KPIs in this Report was sourced from the statistical records of the relevant departments of the Group. 本集團對量化資料作出紀錄、估算及披露，並在可行情況下，與過往績效進行比較。本集團已委託專業獨立顧問進行碳評估及其他環境關鍵績效估算，碳評估乃根據中國國家標準《溫室氣體排放核算與報告要求第1部分：發電企業》以及ISO 14064-1和溫室氣體盤查議定書等國際標準進行。本報告的社會關鍵績效指標則來自本集團相關部門的統計紀錄。

ABOUT THIS REPORT

關於本報告

Reporting principle 匯報原則

Application in this Report 在本報告中的應用

Balance 平衡

This Report is reported in an impartial manner to ensure that information disclosed faithfully reflects the results, challenges and solutions of the Group in ESG aspects.

本報告以不偏不倚的方式進行匯報，確保披露的資訊如實反映本集團於ESG方面的成果、挑戰以及解決方案。

Consistency 一致性

Where feasible, the Group uses consistent statistical methods to allow meaningful comparisons of ESG data over time. If there are any changes that may affect the comparison with previous reports, the Group will include annotations to the corresponding contents in this Report to explain the reasons for corresponding changes.

本集團在可行情況下使用一致的統計方法，讓ESG數據可於日後作有意義的比較。如有任何可能影響與過往報告作比較的變更，本集團將於本報告相應內容加入註解，以解釋作相應變更的原因。

CONFIRMATION AND APPROVAL

All information referred to in this Report is derived from the official internal files and statistics of the Group, as well as the management and operation information collected according to the policies of the Group. This Report has been confirmed and approved by the Board on 30 May 2022.

PUBLICATION CYCLE

The publication cycle of this Report is once per year.

PUBLICATION FORM

This Report is prepared in both Chinese and English. In case of discrepancies between the Chinese and English version, the Chinese version shall prevail. This Report is published on the websites of the Stock Exchange (www.hkexnews.hk) and the Company (www.puxing-energy.com).

FEEDBACK

The feedback from stakeholders will help the Group to establish a better governance and strategy for sustainable development in the future. Should you have any enquiries or suggestions on the contents of this Report, please feel free to contact the Group by email at info@puxing-energy.com.

確認及批准

本報告所引用的資料均來自本集團的正式內部檔案、統計數據，以及根據本集團制度所收集的管理和營運資料。本報告已於二零二二年五月三十日獲董事會確認及批准。

發佈週期

本報告發佈週期為每年一次。

發佈形式

本報告以中、英文編寫，如中文版與英文版存在歧義，概以中文版版本為準。本報告已刊載於聯交所網站(www.hkexnews.hk)及本公司網站(www.puxing-energy.com)。

意見反饋

持份者的意見有助本集團未來建立更完善的可持續發展管治及策略，如閣下對本報告的內容有任何意見或建議，歡迎透過電郵(info@puxing-energy.com)與本集團聯絡。

MESSAGE FROM THE DIRECTORS

董事寄語

2021 was a year full of changes and challenges, with the overlap of the pandemic of the century and the issue of addressing climate change bringing new challenges to the world. Facing such difficulties, the Group was deeply aware of the significance of continuously promoting sustainable development, strived to explore a new development path under the normalised pandemic prevention condition through solid corporate governance capabilities, and constantly fulfilled its social corporate responsibility along the process.

In recent years, extreme weather events have been rampant around the world, causing a large number of casualties and economic losses. With challenges brought by escalating climate change, governments around the world have intensified measures in tackling climate change and their commitments to this end will promote the transformation of enterprise business in the years ahead, making it a crucial moment to address climate change. As one of the first enterprises entering the natural gas power generation sector in China, the Group is well aware of its important responsibilities shouldered in accelerating the transformation of the energy system to a cleaner, lower-carbon and more diversified one. We thoroughly exert our bridging role of natural gas power generation in assisting the low-carbon energy transformation, grasp the attribute advantages of natural gas for environmental protection and power peaking regulation and carry out the work of ensuring supply in an orderly manner so as to respond to the national strategy actively. Through the development of clean energy with the assistance of the ultimate energy structure adjustments and the achievement of the goal of carbon neutrality, we aim to solve the most urgent problems and challenges facing by the society and the world.

Meanwhile, we were fully aware of the potential impact of the energy industry on the environment. In addition to providing clean energy and promoting green development, we also adhered to a green and low-carbon strategy during our operation and were committed to continuously reducing the impact of our operations on the surrounding environment through various measures such as equipment renovation, striving to build our green and low-carbon competitiveness.

二零二一年是富有變化且充滿挑戰的一年：世紀疫情和應對氣候變化議題相互疊加，為全球帶來全新挑戰。面對困難，本集團深刻意識到不斷推動可持續發展的重大意義，通過堅實的企業治理能力，探索常態化疫情防條件下的發展新道路，並在此過程中，持續深入踐行企業社會責任。

近年來，世界各地極端天氣事件頻發，造成大量人員傷亡和經濟損失。面對氣候變化加劇所造成的難題，各國政府均在加大應對氣候變化力度，為此所做出的承諾會在未來數年推動企業業務的轉型，應對氣候變化的關鍵時刻已經到來。作為最早進入中國天然氣發電領域的企業之一，本集團深知我們在能源系統加快向清潔化、低碳化、多元化轉型中所肩負的重要責任，深入發揮天然氣發電在助力能源低碳轉型中的橋樑紐帶作用，把握天然氣環保調峰的屬性優勢，有序開展保供工作，積極回應國家戰略，通過發展清潔能源，助力最終能源結構的調整和碳中和目標的實現，解決社會和全世界面臨的最為迫切的問題和挑戰。

與此同時，我們充分認識到能源產業對環境帶來的潛在影響，除做好清潔能源供應者、綠色發展推動者外，我們在營運中亦堅持綠色低碳戰略，致力通過設備改造等多種方式不斷減低在營運當中對周邊環境的影響，著力打造綠色低碳競爭力。

MESSAGE FROM THE DIRECTORS

董事寄語

Besides, the Group continued to enhance the communication and exchange with stakeholders including government regulatory authorities, business partners, staff and suppliers in 2021 and re-examined its focus on sustainable development management. By carrying out online stakeholder survey, we have fully understood the concerns and expectations from respective stakeholders on Puxing Energy's sustainable development. Taking into the work we performed, we have identified ESG issues that have a significant impact on Puxing Energy, including stability of power supply, opportunities for green energy, anti-corruption and human resource management, which helped us focus on work related to sustainable development and carry out targeted review and response.

In the critical period in which green and low-carbon energy transformation and the transition between old and new energy sources are accelerated in China, the environmental benefits of natural gas power generation and its important role in the energy development landscape have gained more and more attention. In achieving the goal of "dual carbon", the energy industry bears crucial responsibility, and the Group will continue to explore as a pioneer and pathfinder. Based on the provision of safer, more reliable and environmental-friendly power supply services and by focusing on clean energy and integrated energy development, the Group will grasp the opportunities from "dual carbon" before eliminating old energy sources, promote the realisation of sustainable development goals in a scientific and orderly manner, hence fulfilling our responsibility in the national energy structure upgrading and constantly creating sustainable value for respective stakeholders.

Xu Anliang
Chairman

Puxing Energy Limited
Zhejiang Province, the PRC, 30 May 2022

此外，在二零二一年，本集團持續強化與政府監管機構、業務夥伴、員工以及供應商等各持份者的溝通交流，並重新審視了我們可持續發展管理的工作重點，以開展線上利益相關方問卷調研的模式，深入了解各利益相關方對於普星能量可持續發展的關注點和期望，結合我們的工作實踐，明確了包括供電穩定性、綠色能源機遇、反貪污、人力資源管理等內的對普星能量有重大影響的ESG議題，以幫助我們有針對性地開展可持續發展相關工作，進行重點檢視及回應。

在我國能源綠色低碳轉型加快推進、新舊能源加速轉換的關鍵時期，天然氣發電的環境效益及其在能源發展格局中的重要作用越來越受到關注。面對「雙碳」目標，能源行業任務艱巨，本集團必將以先鋒探路者的姿態不斷探索，以提供更安全、更可靠及環保的電力服務為基礎，以清潔能源和綜合能源發展作為主要發展方向，先立後破把握「雙碳」契機，堅定不移、科學有序地推進可持續發展目標實現，為國家能源結構的升級盡自己的責任，並繼續為各持份者創造可持續價值。

徐安良
董事長

普星能量有限公司
中國浙江省，二零二二年五月三十日

ESG STATEMENT OF THE BOARD

董事會ESG聲明

The Board of the Group hereby makes the following statement in accordance with the requirements of the ESG Guide:

Puxing Energy is aware of the significant meaning of sound corporate governance, and has always insisted on adhering to the various requirements of the ESG Guide to build an ESG governance structure with the Board and the ESG working group as the core, continuously promote the improvement of its own ESG governance structure and implementation system, and incorporate ESG governance factors into all aspects of the Group's major decision-making and operational practices.

THE BOARD'S ROLE ON ESG GOVERNANCE

The Board of the Group is the highest responsible and decision-making body for the ESG matters, assuming ultimate and full responsibility for ESG matters of the Group. It is responsible for monitoring commitments, performance and achievements in relation to ESG matters with the assistance of the ESG working group and relevant departments, identifying and managing significant ESG risks and opportunities, authorising each Operating Station to implement relevant policies and measures, and convening meetings as and when appropriate to communicate and discuss relevant ESG issues.

THE BOARD'S ESG MANAGEMENT APPROACHES AND STRATEGIES

The Group attaches great importance to ESG risks that may have a significant impact on the Group. Based on the changes in external environment, policies, industry hotspots, capital market views and the Group's development strategies, the Group updates and replaces its ESG issues database every year by incorporating the identified ESG risks and opportunities, and invites external experts to evaluate the importance of the issues by conducting stakeholder surveys and in-depth assessments, so as to obtain the priority of ESG issues and clarify the focus of the Group's ESG governance efforts.

本集團董事會按照《ESG指引》要求，作出如下聲明：

普星能量深知良好公司治理的重要意義，始終堅持遵循《ESG指引》的各項要求，搭建以董事會及ESG工作組為核心的ESG管治架構，並不斷推動自身ESG治理架構與執行體系的完善，將ESG治理因素納入本集團重大決策及營運實踐的方方面面。

董事會ESG治理角色

本集團董事會是ESG事宜的最高負責及決策機構，對本集團ESG事宜承擔最終和全部責任，在ESG工作組及各相關部門的協助下負責對與ESG事宜有關的承諾、表現與績效進行監管，負責識別及管理重大ESG風險與機遇，授權各營運點落實相關政策及措施，並適時召開會議就相關ESG議題進行溝通和討論。

董事會的ESG管理方針及策略

本集團高度重視ESG風險可能對本集團產生的重大影響，基於外部環境變化、政策影響、行業熱點、資本市場觀點、本集團發展戰略，結合所識別的自身ESG風險與機遇每年對ESG議題庫進行更新與替換，並邀請外部專家通過開展持份者調研和深度評估的方式對議題開展重要性評估，以獲取ESG議題優先順序，明確本集團ESG治理的工作重點。

ESG STATEMENT OF THE BOARD

董事會ESG聲明

OBJECTIVES, INDICATORS AND REVIEW PROGRESS

The Group has established an ESG objective management mechanism, and regularly reviews and reports on the progress of relevant objectives through various forms, such as meetings, ESG report disclosure, etc. The progress and results of the ESG-related efforts of Puxing Energy for the Year have been disclosed in this Report, which has been confirmed and approved by the Board on 30 May 2022.

目標、指標與檢討進度

本集團已建立了ESG目標管理機制，並通過會議、ESG報告披露等諸多形式定期檢討與匯報相關目標的進展情況。普星能量本年度與ESG有關工作的進展與成效皆已披露於本報告中，且本報告已於二零二二年五月三十日經董事會確認和批准。

CORPORATE GOVERNANCE⁴

企業管治⁴

The Group has always regarded a good governance mechanism as an important foundation for an enterprise to enhance its own value, safeguard shareholders' interests and achieve sustainable development. In our long-standing corporate governance practices, we are committed to improving the governance system and optimising management standards, and have adopted and applied the code provisions and, where appropriate, recommended best practices set out in the "Corporate Governance Code" in Appendix 14 to the Listing Rules, in an attempt to continuously consolidate the construction of internal control system to enhance the Group's risk control management capabilities.

The Board of the Group is responsible for leading and overseeing the overall management of the businesses, including the establishment and monitoring of the Group's strategic development, business plans, financial objectives and capital investment proposals, and is also responsible for the corporate governance of the Group. The authority and responsibility for executing the business strategies and managing the day-to-day business operations of the Group are delegated by the Board to the executive Directors and the management of the Group (the "Management"), who are responsible for the day-to-day operations, management and administration of the Group under the leadership of the executive Directors, as well as the execution and implementation of the strategies and approaches determined by the Board with clear and efficient authority and responsibility.

本集團一直將良好的治理機制視為企業提升自身價值、維護股東權益，實現可持續發展的重要基礎。在長期的公司治理實踐中，我們致力於完善治理制度，優化管理水準，並已採納及應用《上市規則》附錄十四《企業管治守則》所載的守則條文及（若適合）建議最佳常規，不斷鞏固內控體系建設以加強本集團的風險控制管理能力。

本集團董事會負責領導以及監督業務的整體管理，包括設立及監察本集團的策略發展、業務計劃、財務目標與資本投資建議，亦須負責本集團的企業管治；執行業務策略及管理本集團日常業務營運的權力與責任則由董事會授予執行董事及本集團管理層（簡稱「管理層」），管理層在執行董事的領導下負責本集團的日常營運、管理及行政，亦執行及實施董事會釐定的戰略及方針，權責明確、富有效率。

⁴ For details of the specific corporate governance information, please refer to the "Corporate Governance Report" set out in Puxing Energy's 2021 Annual Report.

⁴ 具體企業管治資訊可詳見普星能量二零二一年度報告內的《企業管治報告》。

ESG GOVERNANCE

ESG管治

ESG GOVERNANCE STRUCTURE

With respect to the sustainable development, the Group has now established an ESG governance system with the Board and the ESG working group as the core.

The Board of the Group is the highest responsible and decision-making body for the ESG matters, assuming full responsibility for the Group's ESG strategies and reporting. The main responsibilities of the Board are as follows:

- approving and monitoring the policies and mechanisms for managing ESG-related issues and ensuring the adequacy of resources;
- reviewing and approving the Group's ESG vision, objectives, strategies, management policies and work plans;
- overseeing the work of the ESG working group;
- adopting and updating the Group's ESG policies as necessary based on the recommendations of the ESG working group;
- supervising the corresponding implementation, planning and effectiveness of the Group's ESG goals;
- reviewing and approving the ESG reports prepared by the ESG working group; and
- reviewing and approving the Group's ESG budget proposed by the ESG working group.

ESG管治架構

在可持續發展方面，本集團現已建立了以董事會及ESG工作組為核心的ESG管治體系。

本集團董事會是ESG事宜的最高負責及決策機構，對本集團的ESG策略及匯報承擔全部責任。董事會的主要職責為：

- 批准和監督管理ESG相關問題的政策和機制，並確保資源充足；
- 審閱及批准本集團的ESG願景、目標、策略、管理政策及工作計劃；
- 監督ESG工作組的工作；
- 根據ESG工作組的建議，在必要時採用和更新本集團的ESG政策；
- 監督本集團ESG目標的相應實施、規劃和有效性；
- 審閱及批准由ESG工作組準備的ESG報告；及
- 審閱及批准由ESG工作組提出的本集團的ESG預算。

ESG GOVERNANCE

ESG管治

The ESG working group, a team comprised of the Management under the leadership of the executive Directors, is responsible for implementing the ESG policies and mechanisms set by the Board and for preparing works for the Board's decision-making. The ESG working group reports to the Board by provision of written information regarding the Group, and shall report to the Board at least semi-annually on its work concerning the Group's ESG matters. The main responsibilities of the ESG working group are as follows:

- formulating and reviewing the Group's ESG vision, objectives, strategies and management policies for the Board's approval;
- formulating and implementing ESG work plans in accordance with the Group's ESG management policies, strategies and objectives approved by the Board;
- reviewing and supervising the Group's management structure, policies and operational management in relation to ESG and making recommendations to the Board on relevant ESG work to ensure continuous compliance with legal and regulatory requirements;
- reviewing the key trends of ESG, identifying the risks and opportunities associated with ESG and assessing the adequacy and effectiveness of the Group's ESG-related structure accordingly;
- providing the Board with recommendations to update the Group's ESG policies as necessary and ensuring such policies are up-to-date and comply with applicable laws, regulations and regulatory requirements;
- monitoring communication with the Group's stakeholders and identifying ESG-related matters that have significant impact on the Group's operations and/or the interests of other key stakeholders;
- 制定及檢討本集團的ESG願景、目標、策略及管理政策，供董事會審批；
- 根據董事會批准的本集團ESG管理政策、策略及目標，制定及實施ESG工作計劃；
- 檢討及監督本集團ESG的管理架構、政策及營運管理，並就相關ESG工作向董事會提出建議，以確保持續符合法律及監管要求；
- 檢討ESG的主要趨勢，識別與ESG相關的風險和機遇，並相應評估本集團ESG的相關結構是否充分有效；
- 在必要時向董事會提供更新本集團ESG政策的建議，並確保該等政策與時俱進並遵守適用的法律、法規和監管要求；
- 監察與本集團持份者的溝通，並識別對本集團營運及／或其他關鍵持份者的利益有重大影響的ESG相關事項；

ESG GOVERNANCE

ESG管治

- regularly reviewing the progress towards achieving ESG goals and making recommendations to the Board on the actions required to improve performance;
 - identifying the ESG-related matters caused by external factors, evaluating the impact of the ESG work on the Group both internally and externally, listening to the feedback on the ESG work from outside and within the Group, and making recommendations to the Board on the next steps for improvement of the ESG work;
 - ensuring that the Company prepares and discloses the ESG report in accordance with the requirements of the Listing Rules from time to time and making recommendations to the Board on any specific actions or decisions required to be taken to maintain the integrity of the ESG report;
 - monitoring staff training on ESG matters;
 - monitoring the budget and expenditure of the Group's ESG work;
 - reporting to the Board on any update regarding the ESG matters as necessary;
 - reporting the findings on the ESG matters and making recommendations to the Board as necessary; and
 - other ESG-related matters as authorised by the Board.
- 定期審查實現ESG目標的進展，並就改善績效所需的行動向董事會提出建議；
 - 識別外部因素導致的ESG相關事項，評估ESG工作對本集團內部和外部的影響，聽取本集團外部和內部對ESG工作的反饋，並向董事會提出下一步ESG工作的改進建議；
 - 確保本公司不時按照《上市規則》的規定編製及披露ESG報告，並就為保持ESG報告的完整性而需要採取的任何具體行動或決定向董事會提出建議；
 - 監督有關ESG事宜的員工培訓；
 - 監察本集團ESG工作的預算及開支；
 - 必要時向董事會報告ESG事宜的任何新進展；
 - 必要時向董事會報告ESG事宜的調查結果並提出建議；及
 - 董事會授權的其他與ESG相關的事項。

ESG RISKS IDENTIFICATION AND MANAGEMENT

In order to further identify possible risks and ensure effective implementation of measures, the Group establishes a dedicated risk management structure and conducts risk identification and assessment on a regular basis.

ESG風險識別與管理

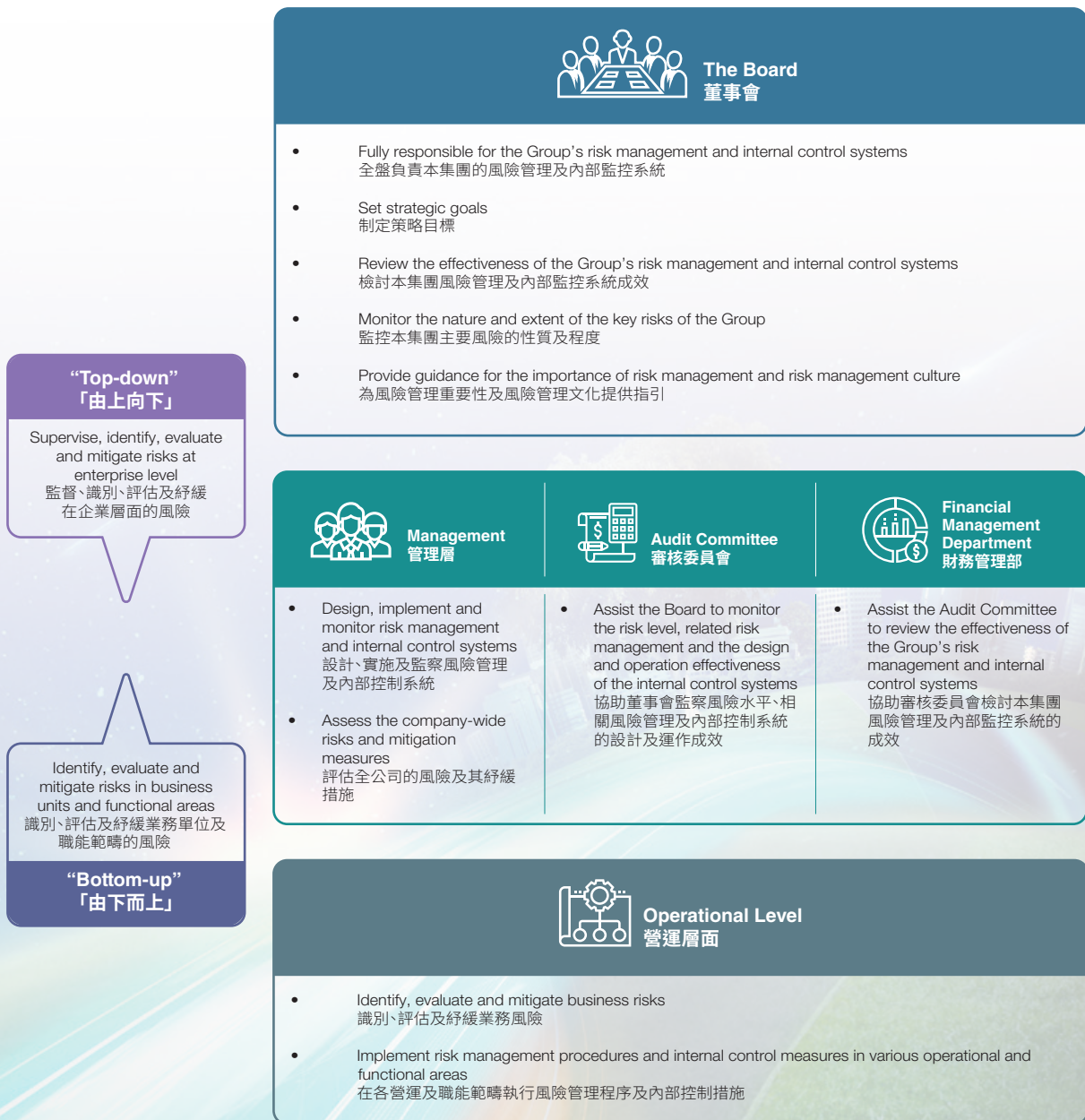
為進一步識別可能的風險並保障措施的有效實施，本集團搭建專門的風險管理架構，並定期開展風險識別與評估工作。

ESG GOVERNANCE

ESG管治

Risk Management Framework of the Group

本集團風險管理架構圖



ESG GOVERNANCE

ESG管治

During the Year, in addition to the risks and uncertainties involved in the business operations of the Group as disclosed in the section headed “Principal Risks and Uncertainties” in the “Directors’ Report” of the Group’s 2021 Annual Report, the Group has also identified the following ESG-related risks and developed response and control measures:

本年度，除已於本集團二零二一年年度報告《董事會報告》中「主要風險及不確定因素」一節內所披露有關本集團業務營運所涉及的風險及不確定因素外，本集團亦已識別下列與ESG相關的風險，並制定應對及控制措施：

ESG Risks ESG風險	Potential Impact 潛在影響	Risk Response and Control Measures 風險應對及控制措施
Emissions 排放物	<ul style="list-style-type: none"> Failure to discharge waste gas, wastewater and solid waste in accordance with the national requirements may cause pollution to the water and atmosphere and health hazards to the human body. This will expose the Group to fines and suspension of operations, which will affect the reputation of the Group. 廢氣、廢水、固體廢棄物如未能按照國家要求排放，可能導致對水體和大氣造成污染，並對人體產生健康危害。這將使本集團面臨罰款及暫停營運，影響本集團聲譽。 	<ul style="list-style-type: none"> The Group engages dedicated environmental protection technicians to regularly upgrade the equipment in accordance with the industry’s latest environmental requirements, and monitor the operational adjustments to ensure that the emissions from the production using the equipment meet the standards and reduce the risk of non-compliance. 本集團聘用專責環保技術人員，按照行業最新環保要求，定期為設備進行升級改造，並對運行調整進行監察，確保設備生產時排放達標，減低違規風險。
Use of resources 資源使用	<ul style="list-style-type: none"> Any waste of resources will increase Group’s economic costs. At the same time, disruptions in the supply of natural gas or water may also result in the shutdown of the units and the loss of operating income. 浪費資源將增加本集團經濟成本。同時，天然氣或用水供應中斷，亦會導致機組停運，對營運收入造成損失。 	<ul style="list-style-type: none"> The Group strengthens the publicity and education of employees on energy conservation and emission reduction, and conducts equipment upgrade and technical analysis to improve energy efficiency and reduce fuel consumption. 本集團加強員工節能減排的宣傳教育，並進行設備升級及技術分析提高能源效益，減少燃料消耗。 The Group is committed to ensuring stable gas and water supply, and has formulated emergency plans as well as conducted regular drills to mitigate the impact of incidents on day-to-day operations. 本集團致力確保供氣供水穩定，並制定應急預案及定期進行演練，減輕事故發生對日常營運的影響。

ESG GOVERNANCE

ESG管治

ESG Risks ESG風險

Potential Impact 潛在影響

Risk Response and Control Measures 風險應對及控制措施

Health and safety 健康與安全

- The health and safety of employees is an important part of the Group's business operations. Any casualties resulting from the occurrence of work safety accidents during the course of the Group's operations will affect the normal operations of the Group and expose the Group to economic loss. Under the strict production safety requirements, the Group may be also exposed to relevant legal risks and liabilities.

員工的健康與安全是本集團業務營運重要部分。倘若本集團在營運期間發生安全生產事故而導致人員傷亡，將影響本集團正常營運，令本集團蒙受經濟損失。面對嚴格的安全生產要求，本集團亦須承擔相關法律風險及責任。

- The Group is committed to incorporating safety management into the production sites at all operational levels of "human, equipment, materials, laws, and environment". Each Operating Station has established a "Production Safety Committee", and manages the occupational health and safety risks identified. The Group also regularly organises safety and health trainings for employees and supervises the strict implementation of the Group's rules and regulations by its employees, as well as conducts regular safety inspections and strengthens the health management of employees to reduce the risks caused by related safety accidents.

本集團致力將生產現場的安全管理加入「人、機、料、法、環」各個營運層面。各營運點已設立「安全生產委員會」，並管理所識別的職業健康與安全風險。本集團亦定期為員工舉辦安全及健康培訓，並監督員工嚴格執行集團規章制度及規程，定期進行安全巡查，以及加強員工健康管理，減少相關安全事故帶來的風險。

ESG GOVERNANCE

ESG管治

ESG Risks ESG風險	Potential Impact 潛在影響	Risk Response and Control Measures 風險應對及控制措施
--------------------	--------------------------	---

Health and safety (Continued) 健康與安全(續)

- The Group formulates emergency plans and organises regular drills and corresponding safety training for its employees to enhance their safety awareness and reduce the possible safety risks caused by unexpected events.

本集團制定應急預案，並定期組織員工進行演練及相應安全培訓，以提高員工安全意識，減低突發事件可能造成的安全風險。

- In respect of occupational disease protection, the Group attaches great importance to comprehensive occupational health and safety management, including occupational disease protection facilities, protective equipment management, promotion, education and training on prevention and control of occupational disease hazards, occupational health monitoring and occupational disease management, etc. The Group is committed to continuously improving working conditions and striving to create a safe, healthy and comfortable working environment for its employees.

在職業病防護方面，本集團重視職業病防護設施、防護用品管理、職業病危害防治宣傳教育培訓、職業健康監護與職業病管理等在全方面的職業健康安全管理內容，致力於持續改善工作條件，努力為職工打造一個安全、健康、舒適的工作環境。

ESG GOVERNANCE

ESG管治

ESG Risks ESG風險

Potential Impact 潛在影響

Risk Response and Control Measures 風險應對及控制措施

Product responsibility 產品責任

- The Group is required to maintain its electricity quality and production level in accordance with “The Implementation Details of the Grid Connection and Operation Management in Eastern China” and “The Implementation Details of the Auxiliary Service Management of Grid-connected Power Plants in Eastern China” (the “Two Rules”) and the requirements of the power grid at all times to ensure that the quality of electricity meets the requirements of users. Failure to operate in accordance with the requirements of the power grid may result in grid incidents and subject the Group to fines. In addition, failure to meet the requirements of external heating users will result in the Group’s financial compensation to those users who suffered economic losses.

本集團需時刻按照《華東區域發電廠併網運行管理實施細則》及《華東區域併網發電廠輔助服務管理實施細則》(簡稱「兩個細則」)及電網要求維持電力的質量及生產水準，以確保電力品質符合用戶要求。如沒有按照電網要求進行營運，可能造成電網事故，並面臨罰款。同時，如對外供熱未能滿足用戶要求，將導致本集團需向經濟受損的用戶作出經濟賠償。

- The Group has adopted the highest safety standards in the industry for its production, including strict implementation of the requirements of the Two Rules, strict control of the operating parameters of power generating units, equipping and updating power system automation equipment with regular maintenance, strengthening system security protection, enhancing personnel training and management, repairing system vulnerabilities, upgrading security systems, and enhancing the maintenance of heating-related equipment, etc.
本集團採納行業最高的安全標準進行生產，包括嚴格執行兩個細則規範要求；嚴格控制發電機組運行參數；配備更新電力系統自動化設備，定期維護保養；加強系統安全防護，加強人員培訓管理，修補系統漏洞，升級安防系統，加強供熱相關設備維護等。

ESG GOVERNANCE

ESG管治

ESG Risks ESG風險	Potential Impact 潛在影響	Risk Response and Control Measures 風險應對及控制措施
Product responsibility (Continued) 產品責任 (續)		<ul style="list-style-type: none"><li data-bbox="925 614 1399 1347">• In order to ensure the stability of electricity supply during periods of high electricity demand such as major national events or holidays, the Group has formulated a special power conservation plan to implement a series of measures and emergency plans to ensure the safety of electricity supply, and actively reported to the electricity regulatory bodies and the electricity dispatch and trading authority on the preparation of various tasks before entering the power conservation stage to ensure the stability of electricity supply during periods of high electricity demand. 為確保在國家重大活動或節假日等高電力需求的時期維持供電穩定性，本集團制定專項保電方案，落實一系列保障電力安全措施及應急方案，並在進入保電階段前積極向電力監管機構及電力調度交易機構報告各項工作準備情況，以確保在高電力需求時維持供電穩定。<li data-bbox="925 1369 1399 1985">• In order to prevent accidents such as forced shutdown of units due to natural gas leakage during the gas supply, the Group has authorised the Production Safety Committee to implement relevant safety measures for production activities, appointed natural gas suppliers to conduct regular inspection and maintenance of gas supply pipelines, and arranged emergency response training for employees to enhance their ability and awareness of emergency responses. 為防止在供氣過程中因發生天然氣洩漏所可能導致的機組被迫停運等事故，本集團授權安全生產委員會執行與此有關安全生產工作，並委託天然氣供應商對供氣管道定期進行檢查及維修，並為員工安排應急培訓，加強員工應變能力及意識。

ESG GOVERNANCE

ESG管治

ESG Risks ESG風險

Employment and training 僱傭與培訓

Potential Impact 潛在影響

- The Group's failure to comply with national requirements in the employment process may result in fines and reputational damage to the Group.
本集團在員工僱傭過程中若未能按照國家要求進行，可能會導致本集團面臨罰款及聲譽損失。
- Any dishonest behaviours and negligence of the employees will expose the Group to litigation risk and legal liability.
員工失信行為及過失將導致本集團面臨訴訟風險及法律責任。
- The Group's failure to conduct employee training in accordance with the employee training management rules to enhance their skills may lead to the risks arising from poor skills of employees and related mis-operation.
本集團若在員工培訓中沒有按照員工培訓管理辦法開展培訓以提升員工技能，可能會導致員工技能水準不高以及相關誤操作發生的風險。

Risk Response and Control Measures 風險應對及控制措施

- The Group manages all human resources matters in accordance with the "Labour Law of the People's Republic of China" and "Human Resources Management Policy" to ensure compliance with employment regulations.
本集團依照《中華人民共和國勞動法》及《人力資源管理制度》管理各項人力資源事宜，確保符合用人規範。

ESG GOVERNANCE

ESG管治

ESG Risks ESG風險	Potential Impact 潛在影響	Risk Response and Control Measures 風險應對及控制措施
Anti-corruption 反貪污	<ul style="list-style-type: none"> Possible corruption and fraud in the process of project tendering and bidding, material procurement and all other business activities will expose the Group to legal and financial risks. 工程招投標、物資採購過程及其他所有業務活動中可能出現的貪污及舞弊的行為，將導致本集團面臨法律及財務風險。 	<ul style="list-style-type: none"> The Group attaches great importance to the implementation of anti-corruption efforts, and formulates an “Anti-corruption Policy”, which incorporates the forms of bribery and corruption, gifts and hospitality, whistleblowing, investigation, protection and confidentiality and anti-corruption training into the system. Such system has been published on the Company’s website. 本集團高度重視反腐敗工作的落實，制定了《反貪污政策》，將賄賂和貪污的形式、禮品和款待、舉報、調查、保障及保密、反貪培訓均納入制度中進行明確，該制度現已發佈在本公司網站。 For employees, the Group governs the management processes through agreements, the creation of corporate integrity culture, and integrity education to prevent system vulnerabilities, strengthen the integrity of employees and provide them with case studies with the aim of enhancing their anti-corruption awareness. 對員工，本集團以協議約定、廉潔文化氛圍創建、廉潔教育等方式規範管理流程，防範制度漏洞，加強員工廉政建設，為員工提供案例學習，加強他們的反貪意識。

ESG GOVERNANCE

ESG管治

ESG Risks
ESG風險

Potential Impact
潛在影響

Risk Response and Control Measures
風險應對及控制措施

**Anti-corruption
(Continued)**
反貪污(續)

- The Group strictly implements the management rules on tendering and bidding at each Operating Station, and practices the principles of “fairness, openness and impartiality” in the process of project tendering and bidding and material procurement to maintain transparency and ensure compliance with regulatory requirements. The Group also requires suppliers to comply with the Group’s integrity and compliance requirements by signing the “Integrity Construction Guarantee” during the process of tendering.
本集團嚴格執行各營運點的招投標管理規定，在招投標、物資採購工作實踐「公平、公開、公正」的原則，維持透明度並確保符合法規要求，並會在招標時以簽署《廉政建設保證書》的形式要求供應商遵守本集團的廉潔合規要求。

ESG GOVERNANCE

ESG管治

COMMUNICATION WITH STAKEHOLDERS

Stakeholders⁵ represent the stakeholder groups that are most affected by corporate operations and have the most influence on corporate development. The Group maintains active, transparent and stable communication with stakeholders and receives feedback from them in a timely manner to continuously improve its understanding of stakeholders' expectations and aspirations, and to continuously improve the Group's sustainable development performance and operational strategies and measures.

持份者溝通

持份者⁵代表了受企業營運影響最多且最能影響企業發展的利益相關方群體，本集團與持份者保持積極、透明、穩定的溝通以及時獲取持份者回饋，不斷加深對持份者期望與訴求的理解，並持續改善本集團的可持續發展績效表現和經營策略與措施。

List of Stakeholders Communication and Issues of Concern of Puxing Energy
普星能量持份者溝通及議題關注列表

Stakeholder Group 持份者組別	Issues of Concern 關注點	Communication Channels 溝通模式
Employees 員工	<ul style="list-style-type: none"> • Employment system 僱傭制度 • Employee rights and benefits 員工權益與福利 • Occupational health and safety 職業健康與安全 • Development and training 發展及培訓 • Diversity and equal opportunity 多元化與機會平等 	<ul style="list-style-type: none"> • Employee opinion survey 員工意見調查 • Intranet communication bulletin 內聯網通訊公告 • Company activities 公司活動 • Regular meetings and emails 定期會議及電郵 • Internal trainings 內部培訓
Shareholders/ Investors 股東／投資者	<ul style="list-style-type: none"> • Profitability of the Group 本集團盈利 • Risk and crisis management 風險及危機處理 • Green energy opportunities 綠色能源機遇 • Anti-corruption 反貪污 	<ul style="list-style-type: none"> • Annual general meeting 股東週年大會 • Company website and emails 公司網站及電郵 • Announcements, circulars, annual reports and interim reports 公告、通函、年度報告及中期報告

⁵ "Stakeholder(s)", also known as "interested party(ies)" or "equity holder(s)", refer(s) to any group or individual significantly influencing or affected by the business of the Group, including the Board, the Management and general staff at the internal level, as well as the shareholders/investors, business partners, customers, government and regulatory bodies, banks and community groups at the external level.

⁵ 「持份者」，又稱「利益相關方」或「權益人」，指對本集團業務有重大影響，或會受本集團業務影響的群體和個人，當中包括內部的董事會、管理層、一般員工，以及外部的股東／投資者、業務夥伴、客戶、政府及監管機構、銀行及社區團體等。

ESG GOVERNANCE

ESG管治

Stakeholder Group 持份者組別	Issues of Concern 關注點	Communication Channels 溝通模式
Customers 客戶	<ul style="list-style-type: none"> Product safety 產品安全 Power supply stability 供電穩定性 Customer service 客戶服務 	<ul style="list-style-type: none"> Regular visits 定期走訪 Phone calls 電話聯絡 Technical support 技術支持
Regulatory bodies 監管機構	<ul style="list-style-type: none"> Power supply stability 供電穩定性 Anti-corruption 反貪污 Green energy opportunities 綠色能源機會 Greenhouse gas emissions 溫室氣體排放 Climate change 氣候變化 	<ul style="list-style-type: none"> Government and industry conferences 政府與行業會議
Suppliers 供應商	<ul style="list-style-type: none"> Supply chain management 供應鏈管理 	<ul style="list-style-type: none"> Regular on-site visits 定期實地考察 Supplier meetings 供應商會議 Review and evaluation 審核及評估
Community 社區	<ul style="list-style-type: none"> Community investment 社區投資 	<ul style="list-style-type: none"> Community investment 社區投資項目 Volunteer charity activities 義工公益活動

ESG GOVERNANCE

ESG管治

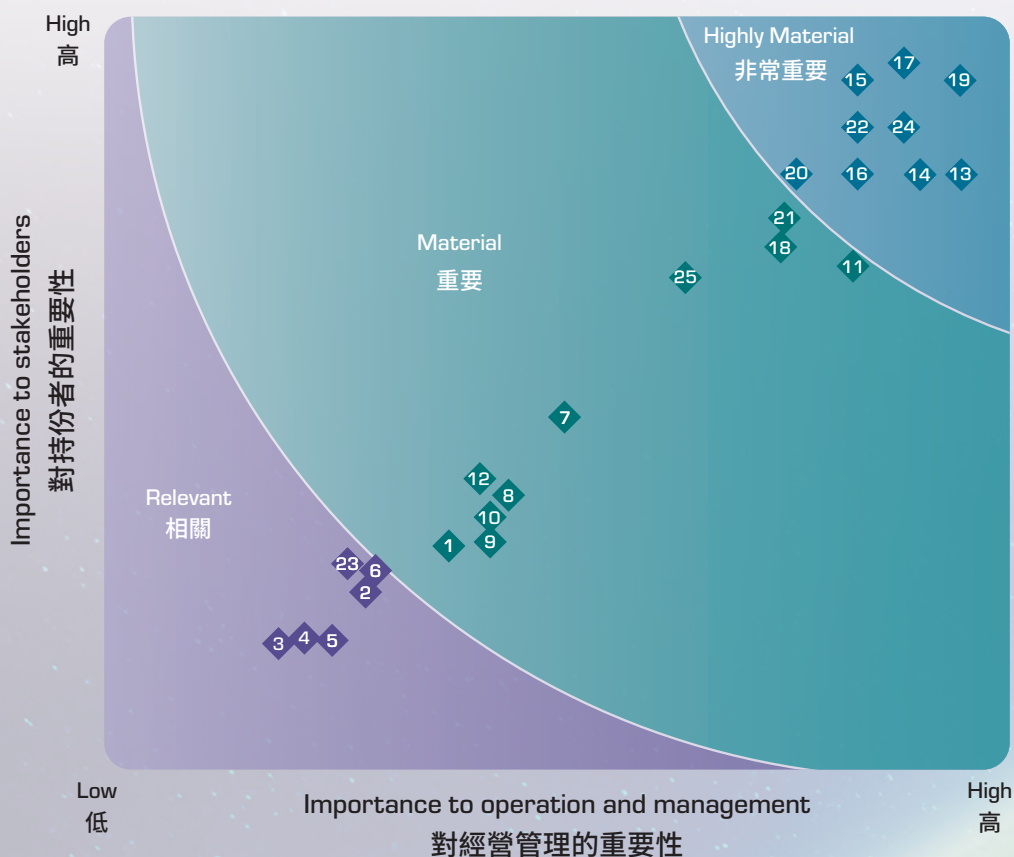
MATERIALITY ASSESSMENT

In 2021, after taking into account the development direction, industry features, feedback from various stakeholders and external expert opinions, the Group built a database of ESG issues, and sincerely invited internal stakeholders, including members of the governing body and employees of various departments to rate 25 ESG issues on two aspects concerning “importance to stakeholders” and “importance to operation and management” through an online questionnaire. Based on the results of the questionnaire together with the Group’s operational practices and aspects of the issues, the Group identified nine very important issues and the materiality matrix (as shown in the chart below) as focused subject areas of this Report and the basis for future strategy development.

重要性評估

二零二一年，本集團結合自身發展方向、行業特性、各利益相關方回饋及外部專家意見構建ESG議題庫，並通過線上問卷調研誠邀包含管治機構成員與各部門員工在內的內部利益相關方站在「對利益相關方的重要性」和「對經營管理的重要性」兩個維度對25項ESG議題進行打分。根據問卷調查評估結果結合本集團營運實踐及議題覆蓋維度，釐定九項非常重要議題及重要性矩陣（如下圖所示），並於本報告進行重點匯報以及作為日後制定策略的基礎。

Materiality Issues Matrix for Puxing Energy’s 2021 ESG Report
普星能量二零二一年ESG報告重要性議題矩陣



ESG GOVERNANCE

ESG管治

No. 編號	Highly Material 非常重要	No. 編號	Material 重要	No. 編號	Relevant 相關
13	Employment and labour management 僱傭與勞工管理	01	Greenhouse gas emissions 溫室氣體排放	02	Air emissions 廢氣排放
14	Employee rights and benefits 員工權益與福利	07	Direct energy 直接能源	03	Generation of hazardous waste 有害廢棄物產生
15	Occupational health and safety 職業健康與安全	08	Water resources 水資源	04	Generation of non-hazardous waste 無害廢棄物產生
16	Development and training 發展及培訓	09	Potential impacts of the environment and natural resources on the Company 環境和自然資源對公司的潛在影響	05	Wastewater discharge 廢水排放
17	Employee rights and labour standards 員工權利與勞工準則	10	Climate change 氣候變化	06	Indirect energy 間接能源
19	Product safety 產品安全	11	Risk and crisis management 風險及危機處理	23	Innovation management 創新管理
20	Power supply stability 供電穩定性	12	Diversity and equal opportunity 多元化與機會平等		
22	Green energy opportunities 綠色能源機遇	18	Supply chain management 供應鏈管理		
24	Anti-corruption 反貪腐	21	Customer service 客戶服務		
		25	Community investment 社區投資		

Looking forward, the Group will continue to strengthen its communication with stakeholders and collect their opinions on sustainability issues through various regular and irregular communication activities, such as stakeholder questionnaires and focus group sessions, to improve and update the Group's sustainability policies and initiatives in a timely manner.

展望未來，本集團將繼續加強與持份者溝通，並透過不同定期與不定期溝通活動（如：持份者問卷調查及焦點小組），收集他們對可持續發展事宜的意見，以完善及適時更新本集團的可持續發展政策及措施。

ENVIRONMENTAL PROTECTION

環境保護

It is the responsibility of every corporate citizen to protect the ecological environment. The Group fully recognises that natural gas power generation may have varying impacts on the environment, and is therefore always committed to practicing environmental protection in a responsible manner. According to the “Environmental Protection Law of the People’s Republic of China”, “Energy Conservation Law of the People’s Republic of China”, “Atmospheric Pollution Prevention and Control Law of the People’s Republic of China”, “Law of the People’s Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes”, “Water Pollution Prevention and Control Law of the People’s Republic of China”, and other laws and regulations, each Operating Station has established various systems and policies on resource management and emission management, including: “Environmental Protection Management Standards”, “Management System on Energy Conservation”, “Management Rules on Greenhouse Gas Emissions”, etc., according to its own needs, in an effort to reduce negative impacts on the natural environment. During the Year, the Group did not have any major violations of laws and regulations regarding the environment.

ENVIRONMENT AND NATURAL RESOURCES

The Group’s power generating units are fuelled by natural gas to generate power, which is supplied to the Group by natural gas suppliers using pipelines that meet safety standards. However, a stable gas supply from pipelines is critical to the business operations. In case of a natural gas leak occurred during the gas supply, in addition to the possible forced shutdown of the units and other incidents, there is likely to be dangers against and impacts on the surrounding areas and communities, including fires, explosions and toxic fumes, which may lead to environmental pollution and casualties.

保護生態環境是每個企業公民應盡的責任，本集團深知天然氣發電過程對環境可能造成的不同影響，始終致力以負責任的態度實踐環境保護，各營運點依據《中華人民共和國環境保護法》、《中華人民共和國節約能源法》、《中華人民共和國大氣污染防治法》、《中華人民共和國固體廢物污染環境防治法》及《中華人民共和國水污染防治法》等法律法規，根據自身需要，訂立各種有關資源管理及排放物管理的制度及政策，包括：《環境保護管理標準》、《節能管理制度》及《溫室氣體排放管理規定》等，以努力減少對自然環境的負面影響。年內，本集團在環境方面未發生重大違法違規事件。

環境及天然資源

本集團的發電機組以天然氣作為燃料進行發電，而天然氣則由天然氣供應商透過符合安全標準的管道向本集團供氣。然而，維持管道供氣穩定對業務營運至關重要。若在供氣過程中發生天然氣洩漏事故，除有可能造成機組被迫停運等事故外，亦有可能造成如火災、爆炸、產生有毒煙霧等污染環境及造成人員傷亡的危害，對周邊環境及社區產生危險及影響。

ENVIRONMENTAL PROTECTION

環境保護

To this end, the Group has authorised the Production Safety Committee to implement relevant safety measures for production activities, and appointed natural gas suppliers to conduct regular inspection and maintenance of gas supply pipelines, address pipeline issues in a timely manner, carry out regular comprehensive leak detection of the natural gas system, and inspect the natural gas pipelines every shift so as to ensure that the process of gas supply complies with safety standards. Each Operation Station has also formulated an “Emergency Plans for Natural Gas Leak from Equipment” or “Emergency Plans for Environmental Pollution Incidents”, and has established a leading emergency management system with clear authority and responsibilities. The leading emergency group and the emergency office oversee and coordinate the emergency management of natural gas leakage incidents. The general manager serves as the head of the leading emergency group, and the members include the manager of the production technology department, office manager, manager of the finance department, supervisor of material resources, dedicated staff of safety supervision, chief shift officer, shift supervisor and other employees. In addition, whenever required, each Operation Station regularly provides emergency trainings to its employees to enhance their ability and awareness of emergency responses so as to reduce casualties and losses in the event of an incident.

為此，本集團授權轄下的安全生產委員會執行有關安全生產工作，並委託天然氣供應商對供氣管道定期進行檢查及維修，對管道問題及時進行處理，同時定期對天然氣系統進行全面檢漏，每班對天然氣管道進行巡檢，確保供氣過程符合安全標準。各營運點亦已制定《天然氣管道設備洩漏事故應急預案》或《突發環境污染事件應急預案》，並建立了權責分明的應急領導管理體系，由應急領導小組及應急辦公室監督及統籌應對天然氣洩漏事故的應急管理工作，由總經理擔任應急領導小組組長，成員為生產技術部經理、辦公室主任、財務部經理、物資主管、安全監察專職、總值長、當班值長等員工。此外，各營運點按需要定期為員工提供應急培訓，加強員工應變能力及意識，在發生事故時減輕傷亡事故及損失。

ENVIRONMENTAL PROTECTION

環境保護

With respect to chemical management, the Group attaches great importance to the management of chemical safety and the promotion of chemical hazard information in compliance with the “Regulations on the Safe Administration of Dangerous Chemicals” and “Interim Provisions on the Supervision and Management of Major Hazard Sources of Dangerous Chemicals”. The Group has formulated systems including “Safety Management System of Hazardous Chemicals”, “Level Management of Precursor Chemicals” or “Management Standard of Toxic Drugs” based on the needs of each Operating Station, organised the establishment of a leading taskforce for the safety management of precursor chemicals, arranged designated personnel, warehouse personnel and supply and sales staff to acquire the knowledge of relevant laws, regulations, rules, safety knowledge, protection and emergency rescue, as well as regularly inspected the use, storage, deposit in and withdrawal from warehouse, flow of goods and anti-theft facilities of precursor chemicals. For possible chemical leaks, we have formulated an emergency plan such as the “Plan for Hazardous Chemicals Leak Incident”, established an emergency rescue taskforce, clarified the division of authority and responsibility, specified the rules for on-site emergency procedures, measures and incident reporting, as well as conducted emergency drills and training covering chemical leak drills, with the aim of avoiding or minimising the loss caused by hazardous chemicals leak incident.

In addition, certain of the Group’s power plants, such as Deneng Power Plant, extract water from nearby rivers for production purposes. In order to minimise the ecological impact on the rivers when power plants pump water, the Group also carries out dredging and landscaping procedures at the river intake regularly.

在化學品管理方面，本集團重視對化學品安全的管理和化學品危害資訊的傳遞，並遵循《危險化學品安全管理條例》及《危險化學品重大危險源監督管理暫行規定》，根據各營運點自身需要制定了如《危險化學品安全管理制度》、《易製毒化學品等級管理》或《有毒藥品管理標準》等制度，組織建立了易製毒化學品安全管理領導小組，組織專管員、倉儲員、供銷員接受有關法律、法規、規章和安全知識、防護應急救援知識的學習，並定期檢查易製毒化學品使用、儲存、進庫、出庫、流向、防盜設施等情況。針對可能出現的化學品洩漏情況，我們制定了《化學危險品洩漏事故處置方案》等應急處置方案，成立應急救援指揮部，對權責劃分、現場應急處置程式、現場應急處置措施、事件報告均進行了明確規定，並結合化學品洩漏演練等應急演練與培訓，避免或最大程度地減輕化學危險品洩漏事故造成的損失。

此外，本集團部分電廠如德能電廠於鄰近的河流抽取用水作生產用途。為減低電廠抽水時對河流生態影響，本集團亦會定期對河流取水口進行清淤及美化工作。

ENVIRONMENTAL PROTECTION

環境保護

USE OF RESOURCES

The Group is committed to improving the efficiency of energy and resource utilisation, and has formulated a number of environmental protection and energy and water conservation policies at each Operation Site, including the “Environmental Protection Management Standards”, “Management System on Water Conservation”, “Environmental Protection Target Responsibility Assessment and Management Standard”, etc. based on system control, measures implementation and performance assessment with an effective approach of lean management so as to achieve an effective cycle of cost reduction and efficiency enhancement.

Energy Consumption

The types of the Group’s energy consumption are mainly natural gas, gasoline and electricity, etc. In order to ensure that the operation process of each Operation Station is in line with energy efficiency, the Group is responsible for supervising, inspecting, adjusting and evaluating the energy consumption of each Operation Station. Meanwhile, in order to strengthen the supervision of energy conservation, reduce the overall energy consumption of the Group and continuously improve the efficiency of comprehensive utilisation of resources, certain power plants, such as Jingxing Power Plant and Anji Power Plant, have formulated the “Management System on Energy Conservation”, as well as established and authorised the leading energy conservation group to perform daily energy conservation tasks, such as being responsible for leading daily energy conservation management, supervising the energy conservation group, collecting and reporting relevant information, conducting statistical analysis of normal operation energy consumption data, identifying energy utilisation anomalies, finding causes, formulating corrective measures and reporting them in a timely manner, guiding and educating employees to enhance their awareness of energy conservation.

資源使用

本集團致力於提升能源和資源使用效率，各營運點已制定多項環保節能節水政策，包括《環境保護管理標準》、《節水管理制度》及《環保目標責任制考核管理標準》等，並以制度控制、措施落實、績效考核為基礎，以精益管理為有效手段，以實現降本增效的有效迴圈。

能源消耗

本集團的能源消耗類型主要有天然氣、汽油、電力等。為確保各營運點的營運過程符合能源使用效益，本集團承擔監督、檢查、調整及評估各營運點的能源消耗的責任。同時，為加強節能監督，降低本集團整體能源消耗，不斷提高資源綜合利用效率，部分電廠如京興電廠及安吉電廠等已設立《節能管理制度》，成立並授權節能工作領導小組執行日常節能工作，如負責日常節能管理工作的領導，對節能工作小組進行監督、收集和上報相關資料，對正常運行能耗資料進行統計分析、發現用能異常情況、查找原因、制定整改措施並及時上報，指導和教育員工增強節約意識等工作。

ENVIRONMENTAL PROTECTION

環境保護

For example, in addition to establishing the leading energy conservation group, Anji Power Plant has formulated an “Energy-saving Assessment Reward and Punishment System” to encourage departments and workshops to put forward feasible energy conservation plans and offer corresponding rewards, so as to mobilise all employees to be active in energy conservation, vigorously carry out energy planning and energy conservation, and increase production and efficiency through energy conservation. At the same time, Anji Power Plant has formulated the “Energy-saving and Consumption-reduction Target Responsibility System” based on the principles of openness, fairness and impartiality. An energy conservation evaluation and consumption reduction assessment team is formed by the leading energy conservation group to assess each energy utilisation department, with the indicators of energy conservation and consumption reduction (including the indicators of comprehensive energy consumption per RMB10,000 output value (tons of standard coal/RMB10,000), electricity consumption, steam consumption, water consumption, etc.) and the indicators of energy conservation and consumption reduction measures (including the construction of the leading organisation, construction of the working organisation, designation of personnel for energy conservation, implementation of responsibility system, promotion and training, etc.). Such two indicators are the main assessment objectives. Units that complete and complete ahead of the progress are commended and rewarded, while departments that fail to complete are required to rectify the situation within a certain period of time, so as to strengthen the responsibility of staff and fully achieve the guiding and motivating effect of energy conservation policies to ensure the realisation of energy conservation and consumption reduction objectives.

以安吉電廠為例，安吉電廠在成立節能工作領導小組之外，另設有《節能考核獎懲制度》，鼓勵部門和車間提出可行的節能計劃，並給予相應的獎勵，以調動全體員工對節能的積極性，大力開展計劃用能、節約用能，以節能求增產、以節能增效益。同時，安吉電廠制定《節能降耗目標責任制》，以公開、公平、公正為原則，由節能工作領導小組組成節能降耗評價考核工作組，對各用能部門進行考核，以節能降耗指標（包括工業萬元產值綜合能耗（噸標煤／萬元）、電耗、汽耗、取水量等指標）和節能降耗措施指標（包括領導機構建設、工作機構建設、節能專管員落實、責任制落實、宣傳培訓等內容）兩項指標為主要考核目標，並對完成和超額完成等級的單位予以表彰獎勵，考核等級為未完成的部門，須限期整改，以強化工作人員責任，充分發揮節能政策的引導和激勵作用，確保完成節能降耗目標任務。

ENVIRONMENTAL PROTECTION

環境保護

The Group also insists on the full utilisation of energy. For example, the Operation Stations generate electricity from waste heat. Waste heat generated by gas turbines is used to heat boilers with water to produce steam, causing steam turbines to generate electricity. Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant also install solar panels on the rooftops of their buildings for photovoltaic power generation, with the electricity generated mainly for internal use and the surplus electricity being sold on the grid. The electricity generated from photovoltaic power for internal use is also equivalent to the offsetting of conventional energy consumption.

In the future, we will further set up an in-depth environmental objectives at each Operation Station to achieve more effective tracking.

The Group's Operating Stations continued to arrange the generation units to generate electricity in line with the peak demand of the power grid of the Zhejiang Provincial Government during the Year. Total energy consumption of each Operating Station amounted to 620,067 MWh (2020: 525,861 MWh), an increase of 17.9% compared to last year. Energy consumption intensity of each Operating Station amounted to 10.31 MWh/RMB10,000 (2020: 9.06 MWh/RMB10,000), with an overall upward trend of energy consumption intensity during the Year of approximately 13.8% compared to last year due to the increase in heating generated. The energy consumption intensity (calculated by power generation) was 1.51 MWh/MWh of electricity generated, and the energy consumption intensity (calculated by heat generation) was 0.21 MWh/tonne of heat generation⁶, by the heat generation and the electricity supply business.

⁶ Due to the gradual development of the Group's heating business, the energy consumption intensity indicators during the Year were adjusted to be calculated on the basis of revenue, power generation and heat generation respectively, in order to more reasonably reflect the relevant performance. Meanwhile, in the energy consumption intensity calculated by power generation and heat generation, we have separated the electricity purchased, natural gas consumption, electricity sold and steam sold according to the power generation and heat generation businesses, and the rest of the energy consumption is uniformly divided into the energy consumption intensity calculated by power generation. The amount of photovoltaic power generation is separately disclosed in the section headed "About the Group" of this Report.

本集團亦堅持能源的充分利用，如在各營運點進行餘熱發電，透過燃氣輪機所產生的餘熱，加熱鍋爐用水產生蒸汽，推動蒸汽輪機進行發電；京興電廠、安吉電廠及衢州電廠亦於電廠建築物屋頂加裝太陽能板進行光伏發電，所發電力主要作自用，剩餘電力會上網銷售。光伏發電電力自用部分亦相當於抵銷傳統能源消耗。

未來，我們還將進一步在各營運點深化環境目標的設定，以實現更有效的追蹤。

本年度，本集團各營運點繼續配合浙江省政府的電網頂峰需求安排發電機組發電。各營運點共消耗能源620,067兆瓦時（二零二零年：525,861兆瓦時），較去年增加17.9%。各營運點消耗能源密度為10.31兆瓦時／萬元人民幣（二零二零年：9.06兆瓦時／萬元人民幣），因供熱量增長，本年度的能源消耗密度整體呈現上升趨勢，較去年上升約13.8%。按照發熱及供電業務劃分，能源消耗密度（以發電量計算）為1.51兆瓦時／兆瓦時發電量，能源消耗密度（以發熱量計算）為0.21兆瓦時／公噸發熱量⁶。

⁶ 因本集團供熱業務逐步發展，故本年度將能源消耗密度指標分別調整至以收益、以發電量、以發熱量計算，以更合理地體現相關績效。同時，在以發電量及發熱量計算的能源消耗密度中，我們將外購電量、天然氣使用量、外售電力、外售蒸汽按照發電及供熱業務拆分，其餘能耗均統一劃分至以發電量計算的能源消耗密度中。光伏發電量單獨披露於本報告「關於本集團」一節。

ENVIRONMENTAL PROTECTION

環境保護

Energy classification 能源分類	2021 2021年	2020 2020年	Unit 單位
Direct energy 直接能源	612,450	520,787	MWh 兆瓦時
Gasoline 汽油	157	112	MWh 兆瓦時
Diesel Fuel 柴油	19	–	MWh 兆瓦時
Natural gas 天然氣	1,117,975	928,581	MWh 兆瓦時
Acetylene ⁷ 乙炔 ⁷	7.11	0.05	MWh 兆瓦時
Sold electricity (natural gas) 外售電力(天然氣)	(372,589)	(315,521)	MWh 兆瓦時
Sold steam (thermodynamics) 外售蒸汽(熱力)	(133,119)	(92,385)	MWh 兆瓦時
Indirect energy 間接能源	7,617	5,074	MWh 兆瓦時
Purchased electricity 外購電力	7,617	5,074	MWh 兆瓦時
Total energy consumption⁸ 能源總耗量⁸	620,067	525,861	MWh 兆瓦時
Intensity of energy consumption (on revenue basis) 能源消耗密度(以收益計算)	10.31	9.06	MWh/ RMB10,000 兆瓦時/ 萬元人民幣

Specific energy consumption by type can be referred to the “Overview of Key Performance Indicators (KPIs)” in this Report.

具體按類型劃分的能源消耗量請見本報告「關鍵績效指標總覽」。

⁷ The increase in equipment repair and maintenance resulted in an increase in the amount of acetylene.

⁷ 由於設備檢修工作量增大，導致乙炔用量上升。

⁸ The total energy consumption is calculated according to the conversion factors in the “National Standard of the People’s Republic of China General Principles for the Calculation of Comprehensive Energy Consumption (GB/T2589-2020)”.

⁸ 能源總耗量根據中華人民共和國國家標準《綜合能耗計算通則(GB/T2589-2020)》中的換算因數計算所得。

ENVIRONMENTAL PROTECTION

環境保護

Use of Water Resources

The Group is committed to practicing water conservation and improving water efficiency in the production process. Each Operating Station is in strict compliance with the “Water Law of the People’s Republic of China”, “Regulations on Water Conservation Management of Thermal Power Plants of the State Power Corporation” and other relevant regulations, and has formulated a “Management System on Water Conservation” and other relevant systems at each Operating Station. Some power plants, such as Jingxing Power Plant, Anji Power Plant and Bluesky Power Plant, have set up the leading taskforce for water conservation, production departments and relevant management units to coordinate water conservation.

At the power plant level, the leading taskforce for water conservation assumes responsibility for plant-wide water conservation management by implementing guidelines and policies, as well as promoting water conservation training programs and promotion campaigns, while the production department implements water conservation improvement projects and sets water conservation targets, under which, the water conservation engineers will be responsible for preparing the annual plan on water conservation, implementing and supervising water-saving measures, and assessing, inspecting and accepting water conservation proposals.

水資源使用

本集團致力實踐節約用水，在生產過程中提高用水效益。各營運點嚴格遵循《中華人民共和國水法》及《國家電力公司火電廠節約用水管理辦法》等有關規定，在各營運點制定《節水管理制度》等相關制度。部分電廠如：京興電廠、安吉電廠及藍天電廠等則設有節水工作領導小組、生產部門及相關管理單位統籌節水工作。

在電廠層面，節水工作領導小組承擔全廠節水管理責任，落實各項方針及政策，並推動節水培訓及宣傳工作，而生產部門則落實節水改造項目及制定節水目標，並由節水管理工程師負責制定節水年度計劃、落實及監督節水措施，以及評估及驗收節水工程方案。

ENVIRONMENTAL PROTECTION

環境保護

The main responsibilities of the leading taskforce for water conservation:

- Organising and arranging the implementation of water and electricity conservation work, and carrying out promotion and education on water and electricity conservation;
- Responsible for the management of water conservation and to achieve the “four in place” of water conservation, i.e. water consumption plan in place, water conservation objective in place, water conservation measures in place and water conservation system in place; consistently implementing water conservation guidelines, policies, laws and regulations, and strengthening daily water conservation promotion, so that the promotion work can reach all parts and work groups;
- Responsible for water conservation plan and statistics, business training of staff in the water consumption department, and preparation for a water conservation system; responsible for organising and promoting advanced experience, technology and exchanges in water conservation; and
- Responsible for the specific organisation and coordination of water conservation work, responsible for the various tasks assigned by higher-level of leading group.

節水工作領導小組主要職責：

- 組織安排節水節電工作的實施，開展節約用水、用電宣傳教育工作；
- 負責節約用水的管理，做到節水工作「四到位」，即用水計劃到位、節水目標到位、節水措施到位、節水制度到位。貫徹執行有關節水工作的方針、政策和法律法規，加強日常性的節水宣傳，使宣傳工作深入到各部分及班組；
- 負責節約用水計劃和統計工作，負責用水部門人員的業務培訓，編製節水工作制度；負責組織推動節約用水先進經驗、技術和交流；及
- 負責節水工作的具體組織協調工作，負責上級工作領導小組交辦的各項工作。

ENVIRONMENTAL PROTECTION

環境保護

Each Operating Station also adopts different water-saving measures to reduce water wastage and increase reuse rate, such as using water-saving faucets, applying insulation materials to prevent pipe breakage, regularly monitoring the water consumption, and inspecting faucets and pipes. Repair will be arranged as soon as possible once leaks are found, sticking water conservation signs and promotion materials, etc. During the Year, Quzhou Power Plant carried out process control of the cooling water of the steam engine cooler, which was changed from manual to automatic adjustment according to the parameters, optimising the accuracy of parameter adjustment, saving the corresponding loss and reducing the amount of cooling water, and reducing the labour of employees by automatic adjustment. The project was completed during the Year with a total cost of RMB53,000. The sound performance upon operation achieved remote automatic adjustment of the cooling water of a total of four oil coolers of units. In addition, Anji Power Plant has passed the reassessment of a water-saving enterprise at a provincial level in 2021.

A total of 820,354 m³ (2020: 765,087 m³) of water was consumed by the Operating Stations during the Year, representing an increase of 7.2% as compared to last year. The water consumption intensity was approximately 13.6 m³/RMB10,000 (2020: 13.19 m³/RMB10,000) on a revenue basis, representing an increase of 3.1% as compared to last year.

The Group extracts water from the municipal network for domestic use, and the production water of each Operating Station is mainly obtained from the surface water of nearby rivers, such as the Grand Canal, Fuxi, the confluence of Huxi and Xitiaoxi, and Shengjiaqiao Port. Water abstraction permits have been obtained from the local water resources bureau for the relevant water abstraction methods. The Group does not have any problem in securing water sources.

各營運點亦採取不同節水措施減少用水浪費及提升重用率，例如：使用省水的水龍頭、為喉管鋪貼保溫物料防止管道破裂，定期監察用水量，以及檢查水龍頭及喉管，如發現任何洩漏則儘快安排維修、黏貼節水標識及宣傳品等。年內，衢州電廠對汽機冷油器的冷卻水進行了工藝性控制，從手動改為根據參數自動調整，優化參數調整精度，節省相應損耗，降低冷卻水用量，自動化的調節也能減輕員工的勞動量。該項目已於年內完成，共花費人民幣53,000元，開機運行後使用效果良好，共實現了對機組四台冷油器冷卻水的遠程自動調節。另外，安吉電廠已通過二零二一年省級節水型企業復評。

本年度各營運點共消耗用水820,354立方米（二零二零年：765,087立方米），較去年增加7.2%。而耗水密度按收益計算約13.6立方米每萬元人民幣（二零二零年：13.19立方米每萬元人民幣），較去年增加3.1%。

本集團從市政管網抽取生活用水，各營運點的生產用水主要取自鄰近河流，如：大運河、阜溪、滸溪與西苕溪匯流及盛家橋港的地表水。有關取水方法已獲當地水利局審批的取水許可證。本集團在求取水源上無任何問題。

ENVIRONMENTAL PROTECTION

環境保護

Green Office

The Group attaches great importance to green office management in the daily office process. In terms of office supplies, all Operating Stations have established the “Office Supplies Management System” to standardise and ensure the rational use of office supplies. Public office consumables (such as paper, ink cartridges, etc.) are included in the departmental office expense assessment, and cleaning supplies (such as brooms, towels, etc.) for each department also need to be included in the departmental office expenses, which saves costs and eliminates waste; in terms of water and electricity use, each Operating Station calls and reminds employees to save water and electricity by posting slogans in the office. In addition, all Operating Stations have implemented paperless offices and have taken various measures to reduce paper consumption, including using electronic communication devices, pre-setting printers and photocopiers for double-sided printing, recycling envelopes and folders for internal documents, and encouraging the use of electronic communication devices and electronic filing. Some power plants, such as Deneng Power Plant, also use WeChat for notification internally to reduce the use of paper.

EMISSIONS

The Group will cause waste gas emissions, greenhouse gas emissions, wastewater emissions and waste generation from its production processes. The Group strictly abides by the “Law of the People’s Republic of China on the Prevention and Control of Atmospheric Pollution”, “Atmospheric Pollution Prevention and Control Law of the People’s Republic of China”, “Law of the People’s Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes” and “Water Pollution Prevention and Control Law of the People’s Republic of China”, and has respectively formulated the “Management and Supervision System on Environmental Protection”, “Environmental Protection Management Standards”, “Management Rules on Greenhouse Gas Emissions”, “Management Rules on Waste” and “Management Standards on Online Monitoring Systems for Smoke and Fumes (Wastewater)” at each Operating Station, with an aim to ensure effective emission management and reduce negative environmental impacts caused by productions and operations.

綠色辦公

本集團重視在日常辦公過程中的綠色辦公管理。在辦公用品方面，各營運點建立《辦公用品管理制度》以規範並保障辦公用品的合理使用。公用的辦公耗材(如紙張、墨水匣等)會計入部門辦公費用考核，各部門清潔衛生用品(如掃帚、毛巾等)也需計入部門辦公費用，在節約成本的同時杜絕浪費；而在水電使用方面，各營運點通過在辦公場所張貼標語的方式，號召並提醒員工節水節電。此外，各營運點實行無紙化辦公，並採取不同措施減少紙張的使用，包括：使用電子通訊設備、將列印機及影印機預設為雙面印刷、循環使用信封及檔案夾發送內部檔案、以及鼓勵採用電子通訊設備及電子存檔。德能電廠等部分電廠亦會內部使用微信通知，減少紙張使用。

排放物

本集團在生產過程中會造成廢氣排放、溫室氣體排放、廢水排放及廢棄物產生。本集團嚴格遵循《中華人民共和國大氣污染防治法》、《中華人民共和國固體廢物污染環境防治法》及《中華人民共和國水污染防治法》，於各營運點分別制定《環境保護管理監督制度》、《環境保護管理標準》、《溫室氣體排放管理規定》、《廢棄物管理規定》及《煙氣(廢水)在線監測系統管理標準》，確保有效管理排放物，減低生產營運對環境的負面影響。

ENVIRONMENTAL PROTECTION

環境保護

Environmental targets

環境目標

All emissions of pollutants meeting the standards
各項污染物100%達標排放

An utilisation rate of 100% for environmental
protection treatment facilities
環保治理設施投入率100%

Achievements in 2021

2021年達成情況

Achieved
已達成

Achieved
已達成

Waste Gas Regulation

As an enterprise focused on natural gas power generation, air emissions from production activities of the Group comprise nitrogen oxides (NOx), sulphur oxides (SOx) and respirable suspended particulates (RSP) produce from combustion of natural gas in gas-fired boilers and consumption of fossil fuels by vehicles.

Each Operating Station has formulated various policies, including the “Three Wastes Environmental Protection Management System” and “Assessment and Management Standards for Excessive Pollutant Emission”, pursuant to which waste gas emissions are regulated, while detection and monitoring strategies are established. To reduce NOx emissions, different measures and technologies have been adopted at each Operating Station, such as water injection and low-NOx combustion technology at Jingxing Power Plant, and low-NOx combustion technology at Anji Power Plant, Deneng Power Plant, Bluesky Power Plant and Quzhou Power Plant. During the Year, Anji Power Plant invested RMB1.168 million to complete the low-NOx transformation of two gas-fired boilers, and the low-NOx transformation, test, trial operation and acceptance of the project have all completed at the end of December. After the transformation, the NOx emission value has been reduced from 80mg/m³ to 30mg/m³.

廢氣監管

作為天然氣發電企業，本集團於營運過程產生不同的空氣污染物，包括燃氣鍋爐燃燒天然氣及車輛消耗化石燃料所產生的氮氧化物、硫氧化物和可吸入懸浮粒子。

各營運點均已制定《三廢環保管理制度》及《污染物超標排放考核管理標準》等政策控制廢氣排放及制定監察工作。各營運點分別採取不同措施及技術，如京興電廠採用注水低氮燃燒技術，而安吉電廠、德能電廠、藍天電廠及衢州電廠則採用低氮燃燒技術減少氮氧化物排放。年內，安吉電廠投入人民幣116.8萬元對兩台燃氣爐完成了低氮改造工作，項目已於12月底完成了低氮改造、試驗、試運行及驗收，改造後，氮氧化物排放值已由每立方米80毫克降低至每立方米30毫克。

ENVIRONMENTAL PROTECTION

環境保護

For effective control over the intensity of waste gas emissions, waste gas emission monitoring also constitutes an important element as part of the control measures. Each Operating Station also appoints third-party monitoring agencies to monitor fume emission on a regular basis to ensure that the emissions are in compliance with the local regulations and requirements. Certain power plants, including Anji Power Plant and Deneng Power Plant, also established systems such as the “Management Standards on Online Monitoring Systems for Smoke and Fumes (Wastewater)” to regulate the procedures for monitoring waste gas so as to ensure the compliance with the “Emission Standard of Air Pollutants for Thermal Power Plants”.

In addition, each Operating Station encourages their employees to use green transportation, and, where practicable, to use video or teleconferencing instead of business travel to reduce the use of corporate vehicles.

Air emissions for the Year were higher than last year, among which, emissions of NO_x, SO_x and RSP were 37,117kg (2020: 28,061kg), 2,809kg (2020: 2,975kg) and 3,924kg (2020: 1,588kg)⁹, respectively.

為有效控制廢氣排放濃度，進行廢氣排放監測亦是其中一項重要控制措施。各營運點亦會定期委託協力廠商監測機構對煙氣進行監測，確保排放符合當地法規要求。部分電廠如安吉電廠及德能電廠等亦設有《煙氣（廢水）在線監測系統管理標準》等制度，規範廢氣監測流程，確保符合《火電廠大氣污染物排放標準》。

此外，各營運點亦鼓勵員工採用綠色交通出行，並在可行的情況下，使用視像或電話會議代替商務出行，以減少使用公司車輛。

本年度的廢氣排放量較去年均有所增加，其中氮氧化物、硫氧化物和可吸入懸浮粒子排放量分別為氮氧化物37,117千克（二零二零年：28,061千克），硫氧化物2,809千克（二零二零年：2,975千克），可吸入懸浮粒子3,924千克（二零二零年：1,588千克）⁹。

⁹ Among the waste gas emissions, only the decrease in sulfur dioxide emissions was due to the decrease in the sulfur content in natural gas, and since Anji Power Plant carried out the low-NO_x transformation project during the Year, the increase in NO_x emissions was relatively lesser than that of other waste gas emissions.

⁹ 廢氣排放中，僅有二氧化硫排放量降低是天然氣中含硫量下降所致，且由於安吉電廠年內進行了低氮改造項目，故而氮氧化物排放量相較於其他廢氣排放量的增加相對較少。

ENVIRONMENTAL PROTECTION

環境保護

Waste Treatment

The Group generates different types of hazardous and non-hazardous waste in the course of its operations, including waste chemicals, waste motor oil, domestic and construction waste, scrap metal, waste paper and waste packaging materials. Each Operating Station has established policies and procedures for waste disposal such as the “Solid Waste Management System”, “Management Plans for Hazardous Waste – Formulated Guidelines”, “Waste Oil Management System” and “Three Wastes Environmental Protection Management System”.

廢棄物處理

本集團在營運過程中產生不同類型的有害及無害廢棄物，包括廢化學危險物、廢機油、生活及建築垃圾、廢金屬、廢紙張及廢包裝材料。各營運點已制定《廢棄物管理制度》、《危險廢物管理計劃制定指南》、《廢油管理制度》或《三廢環保管理制度》等廢棄物處理的政策及流程。

Type of Waste 廢棄物類別	Waste 廢棄物	Treatment 處理方法
Recyclable waste 可回收廢棄物	Waste packaging, waste paper, scrap metals, and waste oil 廢包裝物、廢紙、廢金屬、廢油料	<ul style="list-style-type: none"> Waste packaging materials and waste paper are sorted for collection, and recyclers are appointed to recycling 分類收集廢包裝材料、廢紙，並委託回收商進行回收 Scrap metals are sorted by the types of metal for collection, and recyclers are appointed to recycling 廢金屬類，按金屬類別分類，並委託金屬回收商回收 Waste oil is collected and sorted into barrels, after sorting separately, is labeled obviously and piled up, it is managed by each department during the pile-up period, and recyclers are appointed to recycling 收集廢油料並將廢油分類桶裝，隔離後作明顯標識後堆放，堆放期間由各部門負責管理，並委託回收商回收

ENVIRONMENTAL PROTECTION

環境保護

Type of Waste 廢棄物類別	Waste 廢棄物	Treatment 處理方法
Non-recyclable and non-hazardous waste 不可回收無害廢棄物	Domestic waste and construction waste 生活垃圾、建築垃圾	<ul style="list-style-type: none"> Domestic waste, after sorting, is delivered to the garbage dump daily 生活垃圾經分類後，每天運送到垃圾堆放處 Qualified recyclers are appointed to collect construction waste regularly 委託有資質的回收商定期收集建築垃圾
Non-recyclable hazardous waste 不可回收有害廢棄物	Waste chemicals, waste motor oil, waste mineral oil, waste drugs, waste batteries, waste fluorescent tubes, waste paint, and waste ink cartridges 廢化學危險品、廢機油、廢礦物油、廢藥品、廢電池、廢日光燈管、廢油漆、廢墨水匣	<ul style="list-style-type: none"> Office and domestic waste (including oily rag, waste oil barrels, waste drugs, chemicals, etc.) are put into the fixed garbage dump for isolated storage, and recyclers are appointed to recycling 辦公、生活廢棄物(含油抹布、廢油桶、廢藥品、化學品等)放入固定堆放處進行隔離存放，並委託有資質的危廢處理商進行收集 Waste batteries, waste fluorescent tubes, waste glue, detergent, etc. are disposal of by the qualified disposal units that are contacted by each department 廢電池、廢日光燈管、廢膠水、清潔劑罐等，由各部負責聯繫有資質的處置單位處置 Remaining non-recyclable hazardous waste is stored separately after classification before appointing qualified hazardous waste processing providers for collection regularly 將其餘不可回收有害廢棄物分類存放，並委託有資質的危廢處理商定期進行收集

ENVIRONMENTAL PROTECTION

環境保護

To ensure the safety of waste treatment, each Operating Station not only separates waste for storage but also places fire-fighting equipment and anti-diffusion facilities at waste dumps. In addition, fire secret channels are maintained in sites to reduce the safety risk caused by the leakage of hazardous materials or fire, and the ground is also treated with anti-leakage to prevent secondary pollution. The waste treatment personnel at each Operating Station also regularly inspect the fire-fighting equipment and waste treatment processes to ensure that all equipment complies with local safety regulations and standards.

During the Year, a total of 2.2 tonnes (2020: 1.0 tonne) of hazardous waste was generated by the Operating Stations, mainly consisting of waste mineral oil and mineral oil-containing waste¹⁰. Each Operating Station has sorted hazardous waste for storage and appointed approved hazardous waste treatment companies for collection and processing. Meanwhile, the Operating Stations generated a total of 59.1 tonnes (2020: 57.6 tonnes) of non-hazardous waste during the Year, mainly including domestic waste, waste paper, waste plastics, scrap metals, kitchen waste, and sludge from water purifiers. For waste disposal, the Group recycled 2.9 tonnes of kitchen waste for composting, and the remaining waste was collected and transported by recyclers or waste processing providers during the Year.

Wastewater Reuse and Discharge

Wastewater of the Group mainly includes production wastewater and domestic wastewater. To effectively reduce the impact of wastewater on the surrounding environment, the Group has formulated the “Three Wastes Environmental Protection Management System” and “Administration of Automatic Monitoring of Pollution Sources” in accordance with the requirements of the “Integrated Wastewater Discharge Standard”, the drainage system of the plant area adopts the rain and sewage diversion system, so that various types of wastewater can be collected, reused, or filtered for discharge.

¹⁰ Due to the increase in equipment maintenance workload, the amount of waste mineral oil and waste containing mineral oil has increased.

為確保廢棄物處理安全，各營運點除將垃圾分類存放外，亦於垃圾堆放處擺設消防設備器材及防揚散設備，並於場地內設有消防秘密頻道，減低因危險品洩漏或火災而所帶來的安全風險，地面亦經防滲漏處理，防止二次污染。各營運點的廢棄物處理人員亦會定期檢查各項消防設備及廢棄物處理流程，確保所有設備符合當地安全法規及標準。

本年度，各營運點共產生2.2公噸（二零二零年：1.0公噸）有害廢棄物，主要包括廢礦物油及含礦物油廢物¹⁰。各營運點已將有關有害廢棄物分類存放，並委託認可的危廢處理公司進行收集及處理。同時，各營運點於年內共產生59.1公噸（二零二零年：57.6公噸）的無害廢棄物，主要包括：包括生活垃圾、廢紙、廢塑膠、廢金屬、廚餘，以及淨水器產生的淤泥等。垃圾處置方面，本集團於年內將2.9公噸的廚餘回收作堆肥之用，而其餘的廢棄物則由回收商或廢棄物處理商收集及運走。

廢水回用及排放

本集團的廢水主要包含生產廢水及生活污水。為了有效減輕廢水對周邊環境的影響，本集團按照《污水綜合排放標準》要求制定《三廢環保管理制度》及《污染源自動監控管理辦法》，廠區排水採用雨污分流制，從而將各種廢水分類收集、重用或過濾處理排出。

¹⁰ 由於設備檢修工作量增大，導致廢礦物油及含礦物油廢物量上升。

ENVIRONMENTAL PROTECTION

環境保護

In respect of production wastewater, the Group aims at zero discharge. As a non-high water-consuming enterprise, the wastewater generated by each of our Operation Station mainly comes from the neutralised water generated during water production, which is different from the wastewater generated by industrial production. The neutralised water generated by water production will be stored in the storage pool for unified and comprehensive treatment, and the recycling will be realised after reaching the reuse standards.

In respect of domestic sewage, domestic sewage treatment devices are placed at each Operating Station when the power plant is designed. After treatment, partial domestic sewage can be directly recycled for use, or directly incorporated into the municipal pipe network in accordance with the local discharge regulations and treated uniformly by the municipal government.

During the Year, a total of 54,085m³ (2020: 27,154m³) of wastewater was reused by each Operating Station for watering flowers, cleaning road surface and using in crafts etc.

RESPONDING TO CLIMATE CHANGE

With the PRC's goal and vision of peaking carbon dioxide emission and achieving carbon neutrality, the implementation of climate-related works will be an important task in corporate sustainable development. The Group implements the green and low-carbon strategy. As an integrated energy supplier, in addition to insisting on providing clean, low-carbon, safe and efficient power energy guarantee for the PRC, the Group also gradually improves its corporate governance, incorporates climate risks into the comprehensive risk management system, improves the indicators and targets setting and tracking mechanism, and actively strengthens disclosure of climate-related information to promote in-depth exploration and practice of the green and low-carbon transformation.

在生產廢水方面，本集團以零排放為目標。各營運點作為非高耗水企業，所產生的廢水主要來源於制水時候產生的中和水，與工業化生產所產生的廢水不同。制水所產生的中和水將存放到存儲池，進行統一的綜合處理，達到再利用標準後實現迴圈利用。

在生活污水方面，各營運點在電廠設計時即設置了生活污水處理裝置，生活污水處理後部分可直接實現迴圈使用，或按照地方排放規定直接納入市政管網，由市政統一處理。

本年度，各營運點已重用廢水54,085立方米（二零二零年：27,154立方米），主要用作澆花、清洗路面、利用於工藝中等。

應對氣候變化

隨著中國碳達峰目標和碳中和願景的提出，推進應對氣候變化相關工作，將成為企業可持續發展中的關鍵性任務。本集團明確綠色低碳戰略，作為一家綜合能源供應商，除堅持為國家提供清潔低碳、安全高效的電力能源保障外，亦逐步完善公司治理，將氣候風險納入全面風險管理體系，強化指標和目標的設定與追蹤，積極加強氣候相關資訊披露，促進綠色低碳轉型方面的深入探索和實踐。

ENVIRONMENTAL PROTECTION

環境保護

Governance

In terms of governance, the Group has established the ESG governance structure. The ESG governance structure covers the overall governance of ESG-related work to address climate change. The Board is responsible for monitoring climate-related risks and opportunities, authorising the ESG working group to carry out ESG management, jointly identifying and studying the impact of climate change on our business activities and supporting the Board to carry out monitoring in this regard, the details of which are as set out in the section headed “ESG Governance” of this Report. With reference to the framework set out in the Task Force on Climate-related Financial Disclosures (“TCFD”), the Group gradually carried out status review, strategy formulation, risk management, indicator and target identification and management on the risks and opportunities that the Group may face due to climate change.

Identify Risks and Green Energy Opportunities

Climate-related risks include risks in relation to the transition to a low-carbon economy (the “Transition Risks”) and risks in relation to the physical impact of climate changes (the “Physical Risks”). Transition Risks include political and legal risks, technical risks, market risks and reputational risks, while Physical Risks include acute risks (such as typhoons, floods and other extreme weather conditions) and chronic risks (persistent high temperatures and other changes in climate pattern). In order to address climate changes, in addition to preventing risks, the Group shall also put great efforts in identifying opportunities, including energy sources, products, markets and resilience.

管治

在管治方面，本集團已建立ESG管治架構，覆蓋對ESG相關工作的全面管治，其中包括應對氣候變化的管治。董事會負責對氣候相關風險和機遇的監督，授權ESG工作組開展ESG管理工作，共同識別與研究氣候變化對我們經營活動的影響，向董事會就此事宜的監督提供支援。（具體內容請見本報告「ESG管治」一節）。本集團參考氣候相關財務資訊披露（簡稱「TCFD」）框架，對本集團可能面臨的因氣候變化導致的風險和機遇逐步開展現狀審視、戰略制定、風險管理、指標和目標識別與管理。

風險識別與綠色能源機遇

氣候相關風險包括與低碳經濟轉型相關的風險（簡稱「轉型風險」）和與氣候變化的實體影響相關的風險（簡稱「實體風險」）。轉型風險可分為政策與法律風險、技術風險、市場風險和聲譽風險；實體風險包括急性風險（如颱風、洪水等極端天氣）和慢性風險（氣候模式轉變如持續性高溫）。本集團應對氣候變化，並非止於風險防範，更要主動辨識機遇，包括能源來源、產品、市場和適應力。

ENVIRONMENTAL PROTECTION

環境保護

Physical Risks 實體風險

ESG-related risks 氣候相關風險

Acute risks 急性風險

The unexpected rainstorms, typhoons, floods and other extreme weather conditions may cause measurement inaccuracy, control deviations, power equipment trips and other events, which may affect or interrupt the power supply. In addition, significant extreme weather disaster events highly cause damage to equipment and safety accidents, which would increase unfavourable factors and potential safety hazards.

暴雨、颱風、洪水等極端天氣事件的突發可能會引發如測量失準，控制偏差或設備跳閘等導致電力供應受影響乃至中斷的事件。重大極端天氣災害事件也極易引發設備徹底損壞和員工安全事故，增加不利因素及安全隱患。

Chronic risks 慢性風險

Long-term changes in climate patterns (e.g. persistent high temperatures, extremely cold weather, etc.) may cause increased operating costs due to increased cooling requirements in summer or increased equipment maintenance costs. Long-term changes in climate patterns may also tighten the power supply and demand in extremely cold seasons and high temperature seasons, bringing challenges to power guarantee.

較為長期的氣候模式轉變（例如持續高溫、嚴寒等）可能引發如夏季製冷需求增加所導致的營運成本增加或設備維護保養成本增加等情況。長期氣候模式轉變亦可能加劇嚴寒季節和高溫季節的電力供需緊張，為保電工作提出挑戰。

ENVIRONMENTAL PROTECTION

環境保護

Transition Risks 轉型風險

ESG-related risks 氣候相關風險

Political and legal risks 政策和法律風險

With the improvement and promulgation of the policies, the regulatory authorities will adopt more stringent measures to limit greenhouse gas emissions and strengthen the disclosure requirements of greenhouse gas emissions, which will increase the Group's operating costs and compliance expenses. Currently, the Operating Stations have completed the registrations on the domestic carbon market trading platform. As an emerging market, the carbon market may have a great impact on the operation and management of power companies with the gradual clarification of carbon trading and other rules. For example, companies may have to consider the carbon emission constraints, study development strategies and investment plans under the carbon market, and consider the impact of the carbon price, carbon asset management and other issues, while formulating development strategies. It may also have an impact on the development of power transactions and the formulation of power generation plans. In addition, the changes in the policies may cause high-energy-consuming equipment and other existing fixed assets to be retired early, and there may be the risk of legal liability, fines or property loss due to non-compliance with climate-related policies or laws.

隨著政策的完善和出臺，監管部門必將採取愈加嚴格的溫室氣體限排措施，並強化溫室氣體排放披露要求，增加本集團營運成本和合規開支。目前，各營運點已在全國碳市場交易平台完成註冊。碳市場作為一個新興的市場，後續隨著碳交易等規則的逐步明朗，對電力企業經營管理可能會產生較大影響，如企業在制定發展戰略時可能需考慮碳排放約束，需研究碳市場環境下的發展策略和投資規劃，需考慮碳價的影響及碳資產管理等問題，還可能對電力交易的開展、發電計劃的制定等方面產生影響。此外，政策的變動可能導致高耗能設備等現有固定資產需提前淘汰，亦可能出現由於未符合相關氣候政策或法律要求被依法追究法律責任或面臨罰款、出現財務損失等風險。

ENVIRONMENTAL PROTECTION

環境保護

Transition Risks 轉型風險

ESG-related risks 氣候相關風險

Technical risks 技術風險

With the escalation of environmental and low carbon requirements, production techniques may need to be innovated from time to time to meet environmental requirements. There is a possibility that the front-end costs for investing in or applying new techniques and deploying new operations and processes will increase accordingly.

隨著環保要求和低碳要求的逐步升級，生產技術可能需要隨之革新以應對環保要求，新技術的投資或採用、部署新操作和流程的前端成本存在因此增加的可能性。

Market risks 市場風險

With the guidance of policies and markets, as well as the society's focus on the issues caused by climate-related risks, as an integrated energy supplier, the Group's development in green and low-carbon energy may need to be accelerated to meet the expectations of stakeholders.

隨著政策和市場的引導，以及社會越來越聚焦氣候相關風險所帶來的問題，作為綜合能源供應商，本集團在綠色低碳能源方面的發展或需加速以滿足利益相關方的期望。

Reputational risks 聲譽風險

Any violation of laws and regulations related to responding to climate change at each Operating Station may cause damage to the Group's reputation.

若各營運點出現與應對氣候變化相關的違法違規行為，可能會造成本集團聲譽損害。

ENVIRONMENTAL PROTECTION

環境保護

For the acute Physical Risks, each Operating Station is a power plant with good facilities, and there are some pre-design to prevent natural disasters in the design phase, extreme weather such as typhoons, rainstorms and high temperature weather have an impact on labour management (such as safety, absence from work, etc.), with a minor impact on the business. Meanwhile, in order to prevent the adverse effects that may be caused by extreme weather, each Operating Station has formulated emergency plans and regularly organised employees to conduct drills, to ensure the effective deployment of emergency plans. In the event of natural disasters such as typhoons, floods or strong convective weather, timely and effective measures are taken to minimise casualties, equipment damage and property losses caused by disasters.

就急性實體風險而言，各營運點均為設施良好的電廠，且在設計時對抗自然災害就有一定的預設計，所以颱風、暴雨、高溫等極端天氣除對勞動力管理（如安全、缺勤等）有所影響外，對業務本身的影響較小；同時，為防止極端天氣可能造成的不良影響，各營運點均制定應急預案並定期組織員工進行演練，並確保應急預案有效部署，在發生颱風、汛情或強對流氣象等自然災害時，能及時有效地採取措施，最大限度地減少災害造成的人員傷亡、設備損壞、財產損失。

ENVIRONMENTAL PROTECTION

環境保護

For the chronic Physical Risks, our operating costs may increase due to long-term changes in climate patterns. Meanwhile, it is imperative to reduce carbon under the background of the “dual carbon” goal. Whether it is the pressure from energy conservation and emission reduction or the benefit from the transformation of the energy structure, it can be predicted that natural gas power generation will become the main form of clean and efficient energy utilisation. For a long period of time, natural gas power generation will become a bridge between conventional energy and power generation in the future, with its role will be more important in the future. Clean, efficient and advanced natural gas power generation will usher in wider prospects and more development opportunities in the PRC, and the rapid growth of the scale expansion of new energies including wind power and photovoltaics will also bring greater development potential to the new energy industry. The Group proactively captured the opportunities arising from green energy, leveraged the advantages of natural gas power generation and heating business with relatively low carbon emission intensity, strong dispatch-ability, clean, environmentally-friendly and less pollution, so as to cover the dispatchable power shortfall arising from the reduction of coal-fired power generation output due to carbon peaking, which can help build a clean, low-carbon, safe and efficient energy system and enhance energy supply guarantee capabilities. The Group has also vigorously developed photovoltaic power generation projects in combination with its own operations. During the Year, the electricity generated from photovoltaic power at Anji Power Plant and Quzhou Power Plant was used for internal use only, while the electricity generated from photovoltaic power at Jingxing Power Plant was used for external sales. In the future, with the goal of energy upgrading and transformation, the Group will actively promote the development of other clean energies and make contributions to energy conservation and emission reduction for the entire society.

就慢性實體風險而言，較為長期的氣候模式轉變可能會增加我們的營運成本。但同時，「雙碳」目標背景下減碳勢在必行，無論是節能減排帶來的壓力，還是能源結構轉型帶來的利好，都可以從中預見天然氣發電將成為清潔高效的主要能源利用形式，在相當長的一段時間內，天然氣發電將成為銜接傳統能源與未來能源發電的「橋樑」，且作用愈加突顯，清潔、高效、先進的天然氣發電在中國將迎來廣闊的前景和更大的發展機遇，而包括風電、光伏等新能源規模的快速增長，也將為新能源產業帶來更大的發展潛能。本集團積極把握綠色能源機遇，發揮天然氣發電和供熱業務所具備的碳排放強度相對較低、可調度能力強、清潔環保污染少的優勢，填補由於碳達峰削減燃煤發電量所產生的可調度電力缺口，為建設清潔低碳、安全高效的能源體系和提高能源供給保障能力提供助力。本集團亦結合自身營運大力佈局光伏發電項目，年內安吉電廠及衢州電廠的光伏發電電力已供內部使用，而京興電廠的部份光伏發電亦已外售。未來，本集團將以助力能源升級轉型為目標，積極推進其他清潔能源的發展，為全社會的節能減排做出應有貢獻。

ENVIRONMENTAL PROTECTION

環境保護

For the Transition Risks, with the deepening of the society's understanding of climate change and the implementation of relevant policies, it may lead to strict regulation. Meanwhile, participating in carbon trading has a positive effect on the promotion of energy structure optimisation, the promotion of energy conservation and emission reduction, and the improvement of quality and efficiency of electricity companies. The Group will continue to pay attention to the impact of climate changes on the business of the Group, comply with the government policies, actively participate in carbon trading (the Group's Operating Stations have been included in the national unified carbon market management, but the policy of natural gas power plants as the main body of carbon trading has not yet been clarified), and further improve the formulation of the strategies, risk management as well as indicators and targets identification and management. We will cooperate with other social sectors to address climate change in an effort to achieve a sustainable development.

Indicators and Targets

In addition to the establishment of the governance structure and the identification of risks and opportunities, the Group has identified the indicators related to monitoring environmental, social and climate risks with reference to the recommendations of the TCFD. Greenhouse gas emissions from the Operating Stations mainly come from fuel combustion of stationary equipment, and physical or chemical processes. For this purpose, the Group's Operating Stations have also formulated the "Management Rules on Greenhouse Gas Emissions" to regulate the management of greenhouse gas emissions based on its operational needs. In terms of greenhouse gas emissions, the Group has also calculated greenhouse gas emissions based on ISO14064, "Guidelines for Accounting and Reporting Greenhouse Gas Emissions Other Industrial Enterprises (Trial)" and other standards to clarify the establishment and tracking of relevant performance.

就轉型風險而言，隨著社會各界對於氣候變化的認知深入以及相關政策的推行落實，也可能帶來監管從嚴，同時，參與碳交易亦對推動能源結構優化、推動用電企業節能減排、提質增效有著積極的作用。本集團將持續關注氣候變化對本集團業務的影響，充分回應政策要求，積極參與碳交易（本集團各營運點已被納入全國統一碳市場管理，但天然氣電廠作為碳交易主體的政策尚未明確），並進一步完善戰略制定、風險管理、指標和目標識別與管理，攜手各界一起應對氣候變化，實現共同的可持續發展。

指標與目標

除管治架構搭建，開展風險與機遇識別外，本集團參考了TCFD的建議，識別了與監控環境、社會及氣候相關風險有關的指標，各營運點的溫室氣體排放主要來自靜止設備的燃料燃燒、在物理或化學工藝過程中所產生的工藝排放等。為此，本集團各營運點亦按營運需要制定了《溫室氣體排放管理規定》，對溫室氣體排放實施規範管理。在溫室氣體排放方面，本集團亦已依據ISO14064、《中國發電企業溫室氣體排放核算方法與報告指南（試行）》等標準開展溫室氣體排放核算工作，以明確相關績效的設立和追蹤。

ENVIRONMENTAL PROTECTION

環境保護

During the Year, the total greenhouse gas emissions generated by the Operating Stations were 231,700 tonnes of CO₂ equivalent (CO₂e) (2020: 188,887 tonnes of CO₂e), representing an increase of 22.7% over the total carbon emissions last year. The greenhouse gas intensity of 3.85 tonnes of CO₂e/RMB10,000 (2020: 3.26 tonnes of CO₂e/RMB10,000) at the Operating Stations, representing an increase of approximately 18.1% compared to last year, due to an increase in heat generation.

本年度，各營運點共產生的溫室氣體排放為231,700公噸二氧化碳當量(二零二零年：188,887公噸二氧化碳當量)，較去年碳排放總量增加22.7%。各營運點溫室氣體密度為3.85公噸二氧化碳當量／萬元人民幣(二零二零年：3.26公噸二氧化碳當量／萬元人民幣)，因供熱量增長，本年度的溫室氣體密度呈現上升趨勢，較去年上升約18.1%。

Greenhouse gas emissions 溫室氣體排放	Emissions 排放量		Unit 單位
	2021 2021年	2020 2020年	
Scope 1 Direct greenhouse gas emissions ¹¹ 範圍1直接溫室氣體排放 ¹¹	226,341	185,792	tonne of CO ₂ e 公噸二氧化碳當量
Scope 2 Energy indirect greenhouse gas emissions ¹² 範圍2能源間接溫室氣體排放 ¹²	5,359	3,095	tonne of CO ₂ e 公噸二氧化碳當量
Scope 3 Other indirect greenhouse gas emissions 範圍3其他間接溫室氣體排放	–	–	tonne of CO ₂ e 公噸二氧化碳當量
Total greenhouse gas emissions 溫室氣體總排放	231,700	188,887	tonne of CO₂e 公噸二氧化碳當量
Total greenhouse gas emissions intensity (in revenue)¹³ 總溫室氣體排放密度(以收益計算)¹³	3.85	3.26	tonne of CO₂e/ RMB10,000 公噸二氧化碳當量/ 萬元人民幣

¹¹ Direct greenhouse gas emissions were calculated based on Appendix 4 to “China Energy Statistical Yearbook 2020”, “Greenhouse Gas Protocol”, “IPCC, 2014: Climate Change 2014: Synthesis Report, Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change”, “Guidance for Compiling Provincial Greenhouse Gas Emission Inventory” (Trial, May 2011) and “Energy Statistics Manual” (Department of Energy Statistics, National Bureau of Statistics, 2010).

¹² The average CO₂ emission factors for regional power grids in China in 2012 used for calculating indirect greenhouse gas emissions were based on the “Average Carbon Dioxide Emission Factors for Regional Power Grids in China 2011 and 2012” issued by the National Development and Reform Commission of the People’s Republic of China.

¹³ Due to the gradual development of the Group’s heating business, the indicators of total greenhouse gas emissions intensity were adjusted from the power generation to the revenue, so as to reflect the relevant performance reasonably.

¹¹ 直接溫室氣體排放根據《中國能源統計年鑒2020》附錄4、《溫室氣體核算體系》、《IPCC, 2014：氣候變化2014：綜合報告，政府間氣候變化專門委員會第五次評估報告第一工作組、第二工作組和第三工作組報告》、《省級溫室氣體清單編製指南》(試行，2011年5月)和《能源統計工作手冊》(國家統計局能源司，2010)計算所得。

¹² 間接溫室氣體排放根據中華人民共和國國家發展和改革委員會《2011年和2012年中國區域電網平均二氧化碳碳排放因數》中2012年中國區域電網平均二氧化碳碳排放因數計算所得。

¹³ 因本集團供熱業務逐步發展，故將總溫室氣體排放密度指標由以發電量計算調整至以收益計算，以更合理地體現相關績效。

ENVIRONMENTAL PROTECTION

環境保護

Scope 1: includes the greenhouse gas emissions generated from fuel combustion of stationary sources and mobile sources, and greenhouse gas arising from the use of refrigerants¹⁴ and fire extinguishing agents.

Scope 2: includes the greenhouse gas emissions generated from consumption of purchased electricity.

Scope 3: includes the greenhouse gas emissions from the business air travel.

In line with the national goal of carbon neutrality by 2060, the Group will continue to assess, record and disclose its greenhouse gas emissions and other environmental data annually, to actively review the effectiveness of the current measures and to formulate its long-term targets and strategies on carbon reduction.

範圍1：包括固定源及移動源的燃料燃燒和因使用製冷劑¹⁴與滅火劑釋放所造成的溫室氣體排放等。

範圍2：包括外購電力產生的溫室氣體排放。

範圍3：包括因商務旅行搭乘飛機的溫室氣體排放。

為配合國家爭取於二零六零年前實現碳中和目標，本集團將繼續評估、紀錄每年披露其溫室氣體排放及相關環境數據，積極檢討現行措施績效，並制定長遠減碳目標及策略。

¹⁴ Emissions during 2021 included emissions from refrigerant types R-22 used at Deneng Power Plant; emissions during 2020 included emissions from refrigerant types R-22 used at Jingxing Power Plant and Deneng Power Plant.

¹⁴ 二零二一年包括德能電廠所使用的製冷劑種類R-22排放；二零二零年包括京興電廠及德能電廠所使用的製冷劑種類R-22排放。

EMPLOYEE CARE

員工關懷

The Group regards employees as the core resources of the Group's development. The Group respects its employees, adheres to labour standards as the bottom line, and provides employees with a healthy and safe working environment and comprehensive welfare and care measures. The Group attaches great importance to talents, makes greater efforts to nurture talents, provides diverse training opportunities, and develops a transparent promotion platform for employees. The Group has formulated personnel policies such as the "Employee Handbook" and "Human Resources Management Policy" and other measures to safeguard the Group's commitments to its employees in terms of employment, health and safety, training and development, and labour standards.

HEALTH AND SAFETY

Production safety is the greatest responsibility of an enterprise. The Group always regards the maintenance of health and safety as a top priority, continuously deepens a system of responsibility for the safety production for all employees, strengthens the management and control of the safety production process, implements safety inspection and supervision, and continuously improves the level of safety management. The Group complies with the "Production Safety Law of the People's Republic of China", "Law of the People's Republic of China on the Prevention and Control of Occupational Diseases", "Fire Control Law of the People's Republic of China" and other regulations, obligates to implement the policy where "safety comes first, and precautions serve as priorities with comprehensive treatment measures" in electricity production, with different employee safety policies introduced to each Operating Station, including "Safety Management Standards", "Production Safety Management Standards", "Administrative Standards for Safety Production Responsibility System", "Administrative Standards for Occupational Hygiene" or "Work Injury and Accident Management Standards" to introduce measures safeguarding the health and safety of the employees.

本集團以員工作為集團發展的核心資源。本集團尊重員工，以堅守勞動準則為底線，為員工提供健康安全的工作環境和完善的福利及關懷舉措；本集團重視人才，加大人才培養力度，提供多元化的培訓機會，為員工搭建透明的晉升平台。本集團已制定《員工手冊》及《人力資源管理制度》等人事政策，並結合多樣舉措，以保障本集團對員工在僱傭、健康與安全、培訓與發展及勞工準則層面的承諾。

健康與安全

生產安全是企業最大的責任，本集團始終把維護健康與安全作為首要任務，持續深化全員安全生產責任制，加強安全生產過程管控，落實安全檢查監管，不斷提升安全管理水準。本集團遵循《中華人民共和國安全生產法》、《中華人民共和國職業病防治法》、《中華人民共和國消防法》等法規，堅持貫徹電力生產「安全第一，預防為主，綜合治理」的方針，並於各營運點制定如《安全管理標準》、《安全生產工作管理標準》、《安全生產責任制管理標準》、《職業衛生管理標準》或《工傷事故管理標準》等不同的員工安全標準，落實對員工健康與安全的措施。

EMPLOYEE CARE 員工關懷

In order to effectively implement various health and safety measures, the Group has a production safety committee which is responsible for production safety at the Group level, including the implementation of the production safety responsibility system, and the formulation of budget plans and safety targets. At the same time, the Group also empowers the production safety supervisors of each Operating Station to implement and supervise the relevant safety management, which mainly includes the following tasks:

- Develop a production safety system and risk prevention and control system to identify production safety hazards and potential risks;
 - Develop safe production standards and safe production processes based on the identified potential hazards and risks;
 - Conduct regular safety inspections to ensure that production processes comply with safety standards;
 - Conduct safety hazard investigation and management assessments, and develop corrective measures and countermeasures;
 - Enhance employees' workplace safety awareness by holding daily safety meetings and organising various safety training and education events;
 - Develop contingency plans for safety incidents and conduct regular emergency drills; and
 - Investigate and develop follow-up measures following occurrence of safety incidents.
- 為有效落實各項健康安全措施，本集團設有安全生產委員會，負責集團層面的安全生產工作，包括落實安全生產責任制、制定預算計劃及安全目標。同時，本集團亦授權各營運點的安全生產主管負責執行及監督相關安全管理工作，主要包括：
- 制定安全生產制度及風險防控體系，識別安全生產隱患及潛在風險；
 - 根據已識別的隱患及風險制定安全生產標準以及安全生產流程；
 - 進行定期安全檢查，確保生產過程符合安全標準；
 - 進行安全隱患排查治理評估，制定糾正及應對措施；
 - 透過日常安全例會、各項安全培訓宣傳教育，加強員工對安全生產的意識；
 - 制定安全事故應急預案，定期進行應急演練；及
 - 在安全事故發生後進行調查及制定跟進措施。

EMPLOYEE CARE

員工關懷

In order to further optimise its safety management, the Operating Stations, such as Deneng Power Plant, Quzhou Power Plant and Anji Power Plant, have formulated a three-year plan for the special rectification of safety production. The Group has carried out the special rectification activities of power safety production to further implement the main responsibility for safe production comprehensively and review our weaknesses in power safety comprehensively. The Group standardised and strengthened the management of hazardous chemicals, construction, hazardous operations, special equipment, network and information, power equipment and facility operations, and work environment safety, conducted in-depth investigation and rectification of significant safety risks and potential accidents, improved the long-term mechanism of self-inspection and self-correction of power safety production risks and outstanding issues, prevented all types of accidents, guaranteed the long-term safety of production at each Operating Station, and ensured the continuous and stable situation of power production safety.

In 2021, Operating Stations have set up the safety production goals based on operating practices, such as non-occurrence of general and above accidents, including serious physical accidents, serious physical injury accidents, general physical accidents, minor physical injury accidents, significant equipment accidents and fire accidents, breakdown less than or equal to 1 time per year, unscheduled stoppage less than or equal to 2 times per year and no employee suffering from occupational disease in occupational health examination, all of which were achieved.

為進一步優化安全管理工作，各營運點如德能電廠、衢州電廠及安吉電廠制定安全生產專項整治三年行動工作計劃，通過開展電力安全生產專項整治工作，進一步全面落實安全生產主體責任，全面梳理電力安全生產短板弱項，規範和強化危險化學品、建設施工、危險作業、特種設備管理、網路與資訊、電力設備設施運行和作業現場安全等管理工作，深入排查整治重大安全風險和事故隱患，健全電力安全生產風險隱患和突出問題自查自糾長效機制，堅決杜絕各類事故發生，保障各營運點安全生產長治久安，確保電力安全生產形勢持續穩定。

二零二一年，各營運點結合營運實踐，制定了不發生一般及以上事故（包括重大人身事故、人身重傷事故、一般人身事故、人身輕傷事故、重大設備事故、火災事故等）、一類障礙每年少於或等於1次、非計劃停運每年少於或等於2次，職業健康體檢無職業病患員工等安全生產目標，且均已達成。

EMPLOYEE CARE 員工關懷

In order to enhance the safety awareness of all employees and ensure effective response to emergencies which may cause safety risks, the Operating Stations also formulated the emergency plans, such as “Emergency Plan for Fire Safety Incidents”, “Emergency Plan for Emergency Environment Incidents”, “Emergency Plan for Production Safety”, “Emergency Plan for Typhoons, Floods and Strong Convection” and “Emergency Plan for Power Failure”, and carried out drills and provided the employees with relevant safety training on a regular basis. During the Year, the Group has carried out a total of 20 activities, such as emergency drills, Safety Awareness Month and Fire Drill Day, which include several topics such as typhoon and flood prevention, natural gas equipment leakage emergency drills, fire emergency evacuation, and power failure emergency drills, with more than 1,000 participants.

In terms of occupational disease protection, the Group strictly complies with the “Labour Law of the People’s Republic of China”, “Law of the People’s Republic of China on the Prevention and Control of Occupational Diseases”, “The Management Rules for Labour Protection Products of Employers”, “The Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used”, “Measures for the Supervision of Occupational Health Surveillance” and other relevant laws and regulations. Based on the operating practices, the Operating Stations have established various management systems, such as the “Compilation of Occupational Health and Safety Management”, “Administrative Standards for Occupational Hygiene” and “Work Injury and Accident Management Standards”, covering all aspects of occupational health and safety such as occupational disease protection facilities, management of protective equipment, publicity, education and training on occupational hazards prevention and control, occupational health surveillance and occupational diseases management, and strives to improve working conditions continuously, and create a safe, healthy and comfortable working environment for employees.

為提升全員安全意識，並有效應對突發事件可能造成的安全風險，各營運點根據營運實踐亦制定有《消防安全事故應急預案》、《突發環境事件應急預案》、《生產安全事故應急預案》、《防颱、防汛、防強對流天氣應急預案》或《全廠停電事故應急預案》等應急預案，並定期組織員工進行演練及相應安全培訓。本年度，本集團共開展如應急演練、安全生產月、消防日等活動20次，涉及防颱防汛、天然氣設備洩漏應急演練、火災應急逃生、停電事故應急演練等諸多主題，參與人次超1,000人次。

在職業病防護方面，本集團嚴格遵守《中華人民共和國勞動法》、《中華人民共和國職業病防治法》、《用人單位勞動防護用品管理規範》、《使用有毒有害作業場所勞動保護條例》及《職業健康監護管理辦法》等相關法律法規，基於營運管理實踐於各營運點制定了《職業健康安全管理制度彙編》、《職業衛生管理標準》或《工傷事故管理標準》等不同管理制度，將職業病防護設施、防護用品管理、職業病危害防治宣傳教育培訓、職業健康監護與職業病管理等在全方面的職業健康安全內容囊括其中，並致力於持續改善工作條件，努力為職工打造一個安全、健康、舒適的工作環境。

EMPLOYEE CARE 員工關懷

In addition, each Operating Station has created occupational health profile for its employees according to its operational needs, and has respectively arranged health checks and occupational disease hazards tests for both new and existing employees to ensure that they are healthy prior to and during their employment. Certain Operating Stations, such as Deneng Power Plant, Bluesky Power Plant and Anji Power Plant, have also arranged for third-party testing organisations to conduct occupational disease hazard tests at their plants to reduce the risk of occupational disease hazards to a manageable level. Each Operating Station also provides employees with occupational disease protective equipment and personal protective equipment to ensure their safety at work.

To cope with the COVID-19 pandemic, each Operating Station also actively responded to the pandemic prevention and control requirements from the government and the Group by implementing various prevention and control procedures at the plants, including the following aspects:

- Set up a registration counter at the entrance of the plants to conduct temperature checks and register health codes for employees and visitors, and check the nucleic acid reports according to the regional policy requirements in a specific period;
- The corresponding departments of relevant businesses are responsible for the reception of foreign guests, the staff should wear masks during the reception and ensure the anti-pandemic measures were complied with by foreign guests;
- Strictly implement the regular prevention and control of the pandemic, disinfect office and power plant facilities regularly, and sterilise express delivery;
- Distribute medical masks, hand sanitiser, disinfection supplies, alcohol and other pandemic prevention materials to employees;

此外，各營運點亦按營運需要為員工建立職業健康檔案，並為新入職員工及現職員工分別安排入職健康檢查及職業病危害檢測，確保他們在入職前及在職期間的健康。部分營運點如德能電廠、藍天電廠、安吉電廠亦安排協力廠商檢測機構對電廠進行職業病危害因素檢測，將職業病危害風險減至可控水準。各營運點亦會為員工提供職業病防護裝備及個人防護用品，保障員工作業時安全。

面對新冠疫情，各營運點亦積極響應政府及本集團疫情防控要求，落實各項廠區防控工作，包括：

- 於廠區入口設立登記站為員工及訪客進行體溫檢測及登記健康碼，並結合特定時期地區政策要求查驗核酸報告；
- 相關業務對接部門專業負責外來人員接待，接待時應佩戴口罩並監督外來人員落實防疫措施；
- 嚴格落實疫情常態化防控，定期消毒辦公室及電廠設施，對快遞進行消殺；
- 向員工派發醫用口罩、洗手液、消毒用品、消毒酒精等防疫物資；

EMPLOYEE CARE

員工關懷

- Verify the registration of pandemic prevention materials, use pandemic prevention materials according to the needs, standardise relevant records, and update the lists of pandemic prevention materials such as masks and disinfectants in a timely manner to ensure the sufficient pandemic prevention materials;
 - Set up isolation facilities within the plant premises to isolate unwell employees to reduce the risk of cross transmission among employees; and
 - Provide anti-pandemic training to employees to enhance their awareness and increase their knowledge of pandemic prevention and control, remind employees not to gather or go to crowded places unless necessary, and encourage unvaccinated employees to get vaccinated as soon as possible.
- 做好防疫物資清查登記，按需領用、規範記錄，及時更新口罩、消毒液等防疫物資報表，做好存量保障；
 - 於廠內設有隔離設施，將不適的員工進行隔離，減低員工之間病毒交叉傳播的風險；及
 - 為員工提供有關應對疫情培訓，加強他們疫情防控意識及知識，提醒員工非必要不聚集、不去人流密集場所，引導未接種疫苗員工儘快接種。

During the Year, the Operating Stations were not aware of any safety accident that leads to death or work injuries¹⁵.

本年度，各營運點未發生任何安全事故導致員工因工死亡或工傷意外事件¹⁵。

EMPLOYMENT SYSTEM

The Group regards the strict employment system as the basis for human resource management, strictly complies with the “Labour Law of the People’s Republic of China”, “Labour Contract Law of the People’s Republic of China”, “Law of the People’s Republic of China on Employment Promotion”, “Law of the People’s Republic of China on the Protection of Rights and Interests of Women” and other labour protection laws and regulations. The Group has established a series of the employment management system, including the “Employee Handbook”, “Human Resources Management Policy” and “Administrative Rules for Promotion”, which clearly regulates the specific requirements and arrangements of the Group in the whole process of recruitment, remuneration, welfare, training, promotion, and dismissal, and demonstrates the Group’s commitments to ensuring justice, equality, and anti-discrimination.

僱傭制度

本集團以嚴格的僱傭制度為人力資源管理基礎，嚴格遵守《中華人民共和國勞動法》、《中國人民共和國勞動合同法》、《中華人民共和國就業促進法》及《中華人民共和國婦女權益保障法》等勞動者保護法律和法規，設立包括《員工手冊》、《人力資源管理制度》或《崗位晉級管理辦法》等在內的一系列僱傭管理制度，明確規範本集團在招聘、薪酬、福利、培訓、晉升、解僱等全過程中的具體要求和安排，並體現本集團在保正平等、反歧視等方面的承諾。

¹⁵ During the three years ended 31 December 2021, there were no work-related fatalities.

¹⁵ 本集團於二零二一年十二月三十一日止過去三年無工亡事件。

EMPLOYEE CARE

員工關懷

Recruitment and promotion 招聘及晉升

- The Group recruits employees on the principle of “fair competition and merit-based employment”. The selection and recruitment process follows the principles of fairness, impartialness and transparency.
本集團按照「公平競爭、擇優錄用」的原則招聘員工，選聘和錄用過程均遵循公正、公平、透明的原則。
- The Group provides satisfying and challenging job opportunities, which help enhance the skills and experience of the employees so that they are given the promotion opportunities when job vacancies arise.
本集團為員工提供滿意及具挑戰性的工作機會，提高員工的技能及經驗，在出現職位空缺之時給予內部晉升機會。
- In order to improve the remuneration system of power plant employees, promote the enhancement of employees' skills in their own positions, and develop and grow based on their own positions, the Group provides promotion opportunities for employees who meet the qualifications for promotion and evaluation in accordance with the relevant promotion system.
為完善電廠員工的薪酬體系，促進員工在本崗技能的提升，立足本職崗位發展和成長，本集團按照相關晉級制度，對滿足晉級考評資格的員工，提供晉級機會。

Remuneration, benefits, and rest periods 薪酬、福利及假期

- The Group offers competitive salaries to its employees based on their positions, skills and performance, establishes a salary structure based on fixed salary (including basic salary, post salary, skill salary) plus variable salary (including monthly performance bonus, year-end performance bonus, middle (night) shift allowance, overtime salary, other special bonuses), and makes contributions to the social insurance and housing provident fund in favour of our regular employees. The Group also provides employees with various paid vacations such as annual leave.
本集團根據崗位、技能及績效為員工提供具競爭力的薪酬，建立以固定工資（包括基本工資、崗位工資、技能工資）加浮動工資（包括月度績效獎金、年終績效獎金、中（夜）班津貼、加班工資、其他專項獎金等）為主體的薪酬結構，並為正式員工交納各項社會保險與住房公積金，亦為員工提供年休假等各種帶薪假期。
- In terms of welfare, based on the operating practices, the Operating Stations provide our employees with various welfare, such as meal allowance, high temperature subsidies, protection equipment, festival grants, free accommodation, body check and allowances.
在福利方面，各營運點結合營運實際，為員工提供包含餐貼、高溫費與勞動保護用品、過節費、免費集體宿舍、體檢、慰問金等在內的多種福利。

EMPLOYEE CARE

員工關懷

Equal opportunities and anti-discrimination 平等機會及反歧視

- The Group adopts the principle of equal treatment for all employees and applicants. The Group follows the regulations of the “Labour Law of the People’s Republic of China” and never discriminates against them based on their nationality, ethnicity, gender, religious beliefs, etc. during recruitment and promotion.
本集團對所有員工及應徵者採取一視同仁的原則。本集團遵循《中華人民共和國勞動法》的法規，在招聘及晉升過程中不會因為其國籍、民族、性別、宗教信仰等因素而給予不同的待遇。
- The Group attaches great importance to the protection of female employees, and provides additional protection for the interests of female employees in accordance with the “Special Provisions on Labour Protection for Female Employees” and other relevant rules.
本集團重視女員工保護，通過《女職工勞動保護特別規定》等相關制度對女職工的權益提供額外保護。

Employee feedback 員工意見回饋

- The Group attaches great importance to communication with employees, and advocates a candid communication and cooperation between individual and company, individual and individual. Based on operating practices, each Operating Station communicates with employees in various ways, such as through bulletin board, General Manager Mailbox, the trade union committee and staff satisfaction surveys, encourages and actively adopts employees’ reasonable suggestions. During the Year, the Group has conducted around 50 satisfaction surveys, covering various topics such as satisfactions with the job itself, job rewards, working atmosphere, canteens at each Operating Station and development path.
本集團重視與員工的溝通，提倡個人與公司、個人與個人之間坦誠的溝通與合作，在各營運點結合自身工作實際，採取公告欄、「總經理信箱」、工會委員會、員工滿意度調查等多種形式與員工進行溝通，鼓勵並積極採納員工的合理化建議。年內，本集團共開展滿意度調查近50次，覆蓋對工作本身的滿意度、對工作回報的滿意度、對工作氛圍的滿意度、對各營運點食堂滿意度、對發展空間的滿意度等多個主題。

EMPLOYEE CARE

員工關懷

In order to improve employees' health, the Group also set up billiard tables, table tennis tables, basketball courts and other gymnastics facilities at each Operating Station. In order to reduce employees' work stress, strengthen staff morale and sense of belonging to the Group, the Group also regularly organises employee activities, including employee birthday parties, rice dumpling (Zongzi) wrapping activities and team building activities.

為增強員工身體健康，本集團還在各營運點為員工配備檯球桌、乒乓球桌、籃球場等健身設施；為減輕員工工作壓力，加強員工士氣及對本集團的歸屬感，本集團亦會定期舉辦員工活動，包括員工生日會、包粽子、團建活動等。



Set up various gymnastics equipment at each Operating Station to provide venues for employees to relax
各營運點設立健身器材為員工休閒放鬆提供場地

Organise various employee activities at each Operating Station
各營運點舉辦多種多樣的員工活動



EMPLOYEE CARE 員工關懷

The Group understands that talent diversity is conducive to its sustainable business development. Employing staff from different backgrounds, such as people from different provinces, ethnic minorities, people with disabilities, or enhancing the status of women at work, can help enrich the talent pool and broaden business development. Currently, the Group is reviewing its employment system and policies, and considers expanding diversity elements of the current employment system in the future to clarify the Group's commitment to and direction on talent diversity.

During the Year, the Operating Stations employed a total of 266 regular employees (2020: 258) and 30 employees (2020: 32) of service subcontractors.

The ratio of male to female regular employees was 76:24 (2020: 76:24). There are 102 employees (2020: 84) aged 30 and below, 102 employees (2020: 114) aged from 31 to 40, 51 employees (2020: 50) aged from 41 to 50, 11 employees (2020: 10) aged 51 or above, representing 38.4%, 38.4%, 19.1% and 4.1%, respectively (2020: 32.5%, 44.2%, 19.4% and 3.9%). The ratio of newly hired employees and employee turnover rate for the Year were 20% and 16% respectively (2020: 10% and 14%).

本集團深明人才多元化有助業務持續發展。聘用不同背景的員工，例如不同省份、少數民族、殘障人士，或提升女性工作地位，均有助於豐富人才儲備及擴闊業務發展。目前，本集團正檢討僱傭制度及政策，並考慮於未來在目前僱傭制度中加入更多多元化元素，以明確本集團對人才多元化的承諾及方向。

本年度，各營運點共聘用266名(二零二零年：258名)正式員工，另有30名(二零二零年：32名)服務外包商員工。

正式員工中男、女員工比例為76：24(二零二零年：76：24)；30歲及以下員工102名(二零二零年：84名)、31至40歲員工102名(二零二零年：114名)、41至50歲員工51名(二零二零年：50名)、51歲或以上員工11名(二零二零年：10名)，分別佔比38.4%、38.4%、19.1%及4.1%(二零二零年：32.5%、44.2%、19.4%及3.9%)。本年度的員工新入職率及員工流失率分別為20%及16%(二零二零年：10%及14%)。

EMPLOYEE CARE

員工關懷

DEVELOPMENT AND TRAINING

The Group regards talent pooling as an important systematic project. By building a comprehensive training system to consolidate and enhance various professional skills of power plant employees, it can fully mobilise the enthusiasm of employees to study and work, so that they can acquire the knowledge and skills required for the development of the Company, and thus grow with the Company. To this end, each Operating Station has established different training policies at the development and training aspects, including the “Management Measures for Skill Training”, the “Education and Training Management Regulations”, the “Implementation Rules for New Employee Induction Training Management” and etc. Each Operating Station provides induction training, expertise training, personnel and management training, etc. for different employees based on training requirements and the principle of “full participation, equal emphasis on skills and culture, practicing what you learnt, combining assessment with rewards and punishments as well as long-term development” so as to enable employees to accommodate current and future requirements in their positions.

發展與培訓

本集團將人才儲備作為一項重要的系統性工程，通過打造全方位的培訓系統鞏固提升電廠員工的各項專業技能，充分調動員工學習、工作的積極性，使員工獲得公司發展所需要的知識和技能，從而與公司共同成長。為此，各營運點在發展與培訓層面訂立不同培訓政策，包括：《技能培訓管理辦法》、《教育培訓管理規定》和《新員工入職培訓管理實施細則》等。各營運點根據培訓規定為不同的員工提供入職培訓、技術培訓、人事及管理培訓等，以「全員參與、技能與文化並重、學以致用、考核與獎懲相結合、長期性」為原則，務求讓員工能夠應付目前崗位以及未來需要。

EMPLOYEE CARE

員工關懷

In terms of training channels, the Group accelerated its expansion and launched an intranet training and examination system in 2020. The combination of online and offline training enabled employees to obtain more adequate and more convenient training resources. During the Year, a total of 5,787 employees logged on to the intranet training and examination system platform.

在培訓管道方面，本集團加速拓展，於二零二零年上線內網培訓考試系統，以線上線下相結合的形式，使員工可以得到更充分、更便捷的培訓資源。年內，內網培訓考試系統平台累計登陸人次5,787人次。

Training type 培訓類別	Training themes 培訓主題
Induction training 入職培訓	Corporate culture, safety education, administrative and personnel management system, industry and development history 企業文化、安全教育、行政人事管理制度、產業及發展歷史
Production expertise training 生產專業技術培訓	Unit scheduling management, unit operation, combustion equipment maintenance, and equipment troubleshooting 機組調度管理、機組運行操作、燃機設備維修、設備故障處理
Safety and risk control training 安全及風控培訓	Safety work, emergency responses to power plant accidents, and risk management 安全工作、電廠事故應急、風險管理
Career training certificates 外部取證培訓	Electrical engineer license 電氣工程師牌照
Personnel, finance, and administrative training 人事、財務及管理培訓	Management personnel, financial business management, tax management, and the Civil Code 管理人員、財務業務管理、稅務管理、民法典

EMPLOYEE CARE

員工關懷

In order to ensure the constant skill improvement of employees, the Group stipulates the minimum training hours in light of the job requirements, and holds skill examinations twice a year to assess the employees' knowledge on trainings. The results of training and examinations will serve as an important basis for promotion and performance evaluation. Meanwhile, department heads will also conduct interviews with relevant employees to understand their training outcome and learning progress, and submit reports to the administration and human resources department in order to improve the quality of future training contents. In order to further improve the quality of training courses, the Operating Stations also conduct course satisfaction surveys to ensure that employees understand the training contents, and collect employees' feedback and suggestions on course contents and training instructors through a two-way scoring system.

In addition, the Group always pays attention to the matching of training needs with the actual needs of employees. Taking Jingxing Power Plant as an example, in order to make trainings more targeted and practical, Jingxing Power Plant specially carried out training surveys to collect valuable opinions and suggestions from employees, based on such feedbacks and combined with the actual operation situation, it has formulated the follow-up training programs.

為確保員工技能持續提升，本集團結合崗位要求規定了最小培訓時長，並以每年舉辦兩次技能考試的方式，評估員工對培訓內容的認識。培訓及考試的結果將作為員工晉升及績效評估的重要依據。同時，部門負責人亦會對相關員工進行面談，了解員工受訓情況及學習進度，並將有關情況上報行政及人事部門，以提升未來培訓內容質素。為進一步提高培訓課程品質，各營運點還會開展課程滿意度調查，以雙向打分制的方式，在確保員工理解培訓內容的同時，收集員工對課程內容、培訓講師的回饋及建議。

此外，本集團時刻關注培訓需求與員工實際需求的匹配性。以京興電廠為例，為了使培訓更具針對性和實用性，京興電廠特開展了培訓調查，收集來自員工的寶貴的意見和建議，並以此回饋為基礎結合實際營運情況，擬定後續培訓計劃。

EMPLOYEE CARE 員工關懷

In order to improve the construction of talent echelon, promote learning among all employees to improve their own abilities and master more comprehensive skills in the process of learning, and prepare for further development, each Operating Station has carried out the training program of one post with multi-skills and all-around operator on duty training plans according to its actual situation to improve the skill level of employees and cultivate a team of talents with comprehensive skills. Anji Power Plant launched the all-around operator on duty training plan during the Year, where the production technology department organised employees to apply for cross-post learning, carried out various training plans for majors including combustion, thermal power, electrical, chemical water and others, and organised relevant training evaluations. During the Year, one employee from Anji Power Plant completed the cross-major and multi-positions study and passed the exam and became an all-around operator on duty; a total of 10 employees from Jingxing Power Plant passed the training assessment on one post with multi-skills.

A total of 266 (2020: 243) employees were trained at the Operating Stations during the Year. Ratios of trained male and female employees were 76% and 24%, respectively. By function, senior management, middle management and general staff accounted for 2%, 11% and 87% of the total trained employees, respectively. The average training hours of employees at the Operating Stations were 26.8 hours.

The Group also actively encourages employees to obtain external skills or qualifications (such as certified safety engineer, electrical engineer, etc.). During the Year, over 110 employees in total at the Operating Stations obtained relevant external professional and technical titles or skill level certifications.

為完善人才梯隊建設，宣導全員學習，在學習過程中提升自身能力，掌握更全面技能，為進一步發展做好準備，各營運點結合自身實際開展一崗多能培養計畫、全能值班員培訓計畫等，以提高員工的技能水準，培養一支技能全面的人才隊伍。安吉電廠於年內開展全能值班員培訓計畫，由生產技術部組織員工報備跨崗學習專業，開展各專業培訓計畫，含燃機、熱動、電氣、化水等專業並組織相關培訓測評。本年度，安吉電廠有1名員工完成跨專業兼崗學習並通過考試，成為全能值班員；京興電廠則共有10名員工通過一崗多能培訓考核。

各營運點於本年度共有266名（二零二零年：243名）員工接受培訓，其中男性與女性的受訓員工比例分別為76%及24%，而按職能分類而言，高級管理層、中級管理層及一般員工分別佔總受訓人數的2%、11%及87%。各營運點的平均受訓員工時數為26.8小時。

本集團亦積極鼓勵員工獲得外部技能或資質認定（如註冊安全工程師、電氣工程師等）。年內，各營運點共有110餘名員工獲得相關外部相關專業技術職稱或技能等級認定。

EMPLOYEE CARE

員工關懷

LABOUR STANDARD

The Group strictly prohibits use of child labour and forced labour, and has clarified its position and commitment to protect the rights and interests of employees in the “Employee Handbook”, the “Human Resources Management Policy” and other systems.

The Group strictly follows laws and regulations such as “Law of the People’s Republic of China on the Protection of Minors” and “Provisions on the Prohibition of Using Child Labour”. During the recruitment process, the Group is required to verify the identity documents of the candidates to ensure that they meet the entry requirements. Any child worker who is found to be mistakenly employed will be immediately removed from the workplace and sent to a hospital for a medical examination. The Group will pay all wages to the child worker who will be escorted to a guardian where possible. The Group will also report the case to the local labour administration department as required by the regulations.

The Group prohibits all kinds of forced labour practices. Any employees who are required to work overtime due to operational needs must obtain approval from the department head in accordance with the “Human Resources Management Policy”. At the same time, the Group will compensate the employee with extra overtime pays. Employees may also terminate the labour contract at any time in accordance with the provisions of the employment system. Each Operating Station also protects the basic rights and interests of employees such as wages, working hours and etc. by signing collective contracts based on actual operation and in accordance with the “Trade Union Law of the People’s Republic of China”, “Regulations of Zhejiang Province on Collective Contracts” and other laws, so as to build harmonious and stable labour relations.

During the Year, the Group had no violations of laws and regulations related to child labour and forced labour.

勞工準則

本集團嚴禁聘用童工及強制勞動，並在《員工手冊》及《人力資源管理制度》等制度中列明本集團對維護勞工權益的立場及承諾。

本集團嚴格遵循《中華人民共和國未成年人保護法》及《禁止使用童工規定》等法律法規，在招聘的過程中，本集團需核實應聘者的身分證明檔，確保其符合入職要求。若發現誤聘童工，則應立即停止其工作並送往醫院進行身體檢查。本集團將向該童工發放所有薪資並在可行情況下安排專人護送其至監護人。本集團亦根據規定要求將個案呈報至當地勞工管理部門。

本集團禁止各種強制勞動行為。員工因營運需求需要加班時，須按照《人力資源管理制度》得到部門負責人批准。同時，本集團將向該名員工發放額外加班費作為補償。員工亦可按僱傭制度下的規定隨時解除勞動合同。各營運點亦結合營運實際，依照《中華人民共和國工會法》及《浙江省集體合同條例》等法律規定，通過簽訂集體合同的方式，對員工如工資、工作時間等基本權益進行保護，以構建和諧穩定的勞動關係。

年內，本集團未發生與童工及強迫勞動有關的違法違規事件。

OPERATION RESPONSIBILITY

營運責任

Based on the provision of responsible and stable power services, the Group adheres to operate with integrity and abide by business ethics, and requires every employee to know and understand its business code of conduct by setting out the code of conduct for employees in the “Employee Handbook”, and actively cooperates with suppliers and other stakeholders on the basis of enhancing understanding and mutual trust. Through continuous compliance construction and development efforts, the Group continues to win the respect and recognition of all stakeholders while bearing its operational responsibilities.

ANTI-CORRUPTION

Improper behaviors in business activities, such as corruption, bribery or under the premise of sacrificing the interests of the enterprise, violating the principle of fair trade and damaging the reputation of the enterprise, will seriously disrupt the normal management order of the Group and hinder the sustainable and healthy development of the enterprise. Therefore, the Group strictly abides by relevant laws and regulations such as “Anti-unfair Competition Law of the People’s Republic of China”, “Anti-money Laundering Law of the People’s Republic of China” and “Contract Law of the People’s Republic of China”. By taking “integrity, honesty, fairness, impartiality, and ethical business practices” as one of its core values, the Group has adopted a zero-tolerance attitude towards bribery and corruption, resolutely opposes and expressly prohibits corruption, establishing a clean and honest cultural atmosphere within the Group.

本集團以提供負責任及穩定電力服務為基礎，堅持誠信經營並恪守商業道德，以在《員工手冊》中列明員工職務行為準則的方式要求每一位員工知悉並了解我們的商業行為準則，並與供應商等利益相關方以增強理解互信為基礎開展積極合作，通過持續的合規建設與努力發展，在肩負營運責任的同時，不斷贏得各利益相關方的尊重與認可。

反貪污

商業活動中的不正當行為如貪污、受賄、行賄，或以犧牲企業利益為前提，違反公平交易原則、損害企業的聲譽，都會嚴重擾亂本集團的正常管理秩序，阻礙企業的持續健康發展。因此，本集團嚴格遵守《中華人民共和國反不正當競爭法》、《中華人民共和國反洗錢法》及《中華人民共和國合同法》等有關法律法規，將「廉潔守正、誠實正直、公平公正、不偏不倚及合符道德的商業行為」作為核心價值之一，對賄賂和貪污採取零容忍態度，堅決反對並明令禁止貪污行為，在本集團內部營造風清氣正、廉潔誠信的文化氛圍。

OPERATION RESPONSIBILITY

營運責任

Policy guarantee 政策保障

The Group attaches great importance to the construction of the anti-corruption system, and has formulated a special “Anti-corruption Policy”, which strictly stipulates the forms of bribery and corruption, restrictions on gifts and entertainment, “red flags” of possible corrupt behavior, protection and confidentiality policy for whistleblowers, consequences of false reporting, responsibility for reporting violations of this policy, incident investigation, anti-corruption training and etc. The Audit Committee is also responsible for monitoring and regularly reviewing this policy. At the same time, in order to ensure the availability of policies, relevant policies have been published on the Company’s website, which can be viewed by any stakeholder, ensuring the openness, transparency and availability of policies.

本集團高度注重對反貪制度的建設，已制定專項《反貪污政策》，對賄賂和貪污的形式、禮品和款待的限制、可能存在貪污行為的「危險信號」、對舉報人的保障及保密政策、虛假報告的後果、舉報違反本政策行為的責任、事件調查、反貪培訓等內容均進行嚴格規定，審核委員會還需負責監察及定期檢討此政策。同時，為確保政策可得性，相關政策已發佈於本公司網站，任何利益相關方均可查看，確保了政策的公開、透明、可獲得。

Employee management 員工管理

In terms of employee management, the Group has set forth the code of conduct for employees in the “Employee Handbook”, which clarifies that employees shall not solicit or accept benefits from business related units in any name or form; a zero-tolerance attitude is adopted for employees who involved in corruption, bribery or fraud, regardless of whether it causes losses to the Group; a letter of commitment that includes agreements on resolutely resisting commercial bribery and others shall also be signed by employees at or above the departmental manager level and employees in key positions.

在員工管理方面，本集團在《員工手冊》中闡述了員工職務行為準則，明確員工不得以任何名義或形式索取或者收受業務關聯單位的利益；對員工涉及貪污、受賄或作假欺騙的行為，不論是否對集團造成損失，均採取零容忍的態度；部門經理級以上的員工及關鍵崗位員工，還需簽署包含堅決抵制商業賄賂等約定的任職承諾書。

OPERATION RESPONSIBILITY

營運責任

Cultivating an atmosphere of integrity 培養廉潔氛圍

The Group attaches great importance to the cultivation of an integrity culture atmosphere, and stipulates in the “Anti-corruption Policy” that the human resources department is responsible for organising the anti-corruption training for employees, and shall arrange at least one integrity training for employees annually. At the same time, employees at managerial level and employees in key positions are also required to receive special anti-corruption trainings led by legal counsel to reinforce their awareness. For directors, the Group takes anti-corruption as an important part of the annual director training every year, the overall duration of such training is about 1 hour, with training and education taken as means to consolidate the foundation of anti-corruption. During the Year, the total duration of anti-corruption trainings for employees at the Operating Stations of the Group was 271 hours.

本集團重視廉潔文化氛圍的培養，並於《反貪污政策》中規定，人力資源部需負責員工的反貪培訓，並每年為員工安排至少一次誠信培訓。同時，對經理級員工及重點崗位員工，另需接受由法律顧問牽頭開展的專項反貪污培訓，以強化認識。針對董事，本集團每年將反貪污作為年度董事培訓的重要內容進行開展，整體培訓時長約1小時，以培訓教育為手段，夯實反腐敗根基。本年度，本集團各營運點員工反貪污培訓受訓時長合共271小時。

Supplier management 供應商管理

The Group adheres to maintain an honest and cooperative relationship with suppliers. In addition to the requirements of “honesty and self-discipline, acting impartially, and not seeking personal gain” for procurement personnel in the internal procurement system, each Operating Station requires suppliers to abide by the Group’s integrity and compliance requirements by signing an “Integrity Construction Guarantee” when bidding.

本集團堅持與供應商維持廉潔合作關係。除在內部採購制度中對採購人員提出「廉潔自律，秉公辦事，不謀私利」的要求外，各營運點在招標時以簽署《廉政建設保證書》的形式，要求供應商遵守本集團的廉潔合規要求。



By organising visits to the integrity culture and education base, carrying out a series of honest culture education and publicity activities and creating a good honest atmosphere, Quzhou Power Plant actively created itself as a demonstration site of the honest private enterprises in Quzhou City. It was listed as one of the first 23 demonstration sites created in Quzhou City, and obtained

excellent grades.

衢州電廠積極創建衢州市清廉民營企業示範點，組織參觀廉政文化教育基地，開展了系列清廉文化教育和宣傳活動，營造良好地清廉氛圍，被列為衢州市首批創建的23家示範點之一，並獲得優秀等次。

OPERATION RESPONSIBILITY

營運責任

The Group encourages its employees to objectively determine whether business activities are in line with the business ethics and industry practices as a third party. Anyone who becomes aware of any information indicating that a violation of the “Anti-corruption Policy” has occurred or is about to occur must immediately report it to the chairman of the Audit Committee via the whistleblowing policy. The Audit Committee is responsible to report to the Board for material incidents relating to breaches of the “Anti-corruption Policy”. At the same time, by integrating actual operation, each Operating Station has a corruption whistleblowing box and hotline for employees to report any commercial bribery and other misconducts. The Group prohibits retaliatory action against any person who raises a concern in good faith. If the employee is raising genuine and appropriate concerns under the “Anti-corruption Policy”, he or she is assured of fair treatment, including protection against unfair dismissal, victimisation or unwarranted disciplinary action, even if the concerns turn out to be unsubstantiated. No employees will suffer demotion, penalty, or other adverse consequences for refusing to engage in or permit a bribery offence or for raising concerns or for reporting possible wrongdoing, even if it may result in losing business or otherwise suffering a disadvantage. The Group keeps the identity of the whistleblower confidential.

During the Year, the Group did not receive any reports or complaints in this regard and the Group has not found any corruption-related violations of laws and regulations.

PRODUCT RESPONSIBILITY

As a peaking power plant, the Group is committed to fulfilling the responsibility of stabilising electricity supply and providing quality electricity supply services during peak hours. To this end, the Group has established the “Safety Management Standards” and relevant risk assessment and control standards to ensure that the electricity production process meets safety standards.

本集團鼓勵員工以第三者客觀身份判斷商業活動是否符合商業道德及行業慣例。任何人如獲悉任何表明已發生或即將發生違反《反貪污政策》的行為的信息，須即時通過舉報政策向審核委員會主任委員報告，審核委員會負責將涉及違反《反貪污政策》的重大事件向董事會上報。同時，各營運點亦結合營運實際，設有廉政舉報信箱及舉報熱線，供員工舉報任何商業賄賂等不當行為。本集團禁止對任何善意提出疑慮的人採取報復行動。如該員工根據《反貪污政策》提出真實且適當的疑慮，他或她將得到公平對待，包括不會受到不公平解僱、傷害或不當的紀律處分，即使有關疑慮最終無法證實。任何員工都不會因拒絕參與或允許賄賂犯罪、提出疑慮或報告可能的不當行為而遭降級、處罰或其他不利後果，即使這可能導致業務的喪失或遭受其他不利影響。對舉報人的身份，本集團嚴格進行保密。

年內，本集團未收到與此相關的舉報及投訴且本集團並未發現任何與貪污相關的違法違規事件。

產品責任

作為調峰電廠，本集團致力承擔穩定供電的責任，在用電高峰時段提供優質的供電服務。為此，本集團已制定《安全管理標準》及相關風險評價、控制標準，確保電力生產過程符合安全標準。

OPERATION RESPONSIBILITY

營運責任

In order to ensure the safe, high-quality and economical operation of the power system in East China, we have implemented the power production policy of “safety first, prevention prioritised” in accordance with the “Regulation on the Administration of Power Grid Scheduling (Revised 2011)”, “Detailed Rules on the Administration of Grid-connected Operation of Power Plants in East China (for Trial Implementation)” and “Provisions on the Administration of Grid-connected Operation of Power Plants” (Dian Jian Shi Chang [2006] No. 42) and other relevant regulations, established and improved relay protection and safety automatic devices, dispatching automation, power communication and other operation and maintenance safety management systems involved in the safe and stable operation of the power grid, maintained the safe and stable operation of the power system in East China, and followed the command of the relevant power dispatching and trading agencies to quickly and accurately execute dispatching instructions.

In order to ensure the stability of power supply during periods of high-power demand such as major national events or holidays, the Group has formulated a special power protection plan to implement a series of safety measures and contingency plans to protect power, and actively reported the preparation of various works to the power regulatory agencies and power dispatching and trading agencies before entering the power protection stage to ensure the stability of power supply in times of high-power demand. The specific power protection measures are as follows:

- Preparing emergency start-up plans for units and improving power protection plans;
- Strengthening daily professional skills training and personnel safety awareness, and effectively combining safety education and skills training;

為保障華東電力系統安全、優質、經濟運行，我們遵照《電網調度管理條例（2011修訂）》、《華東區域發電廠併網運行管理實施細則（試行）》及《發電廠併網運行管理規定》（電監市場[2006]42號）等有關規定的要求，貫徹「安全第一、預防為主」的電力生產方針，建立健全涉及電網安全穩定運行的繼電保護和安全自動裝置、調度自動化、電力通信等運行和檢修安全管理制度，維護華東電力系統安全穩定運行，並配合相應電力調度交易機構的指揮，迅速、準確執行調度指令。

為確保在國家重大活動或節假日等高電力需求的時期維持供電穩定性，本集團制定專項保電方案，落實一系列保障電力安全措施及應急方案，並在進入保電階段前積極向電力監管機構及電力調度交易機構報告各項工作準備情況，確保在高電力需求時維持供電穩定，具體保電措施如下：

- 編製機組應急啟動預案，完善保電方案；
- 加強日常專業技能培訓，強化人員安全意識，將安全教育和技能培訓有效結合；

OPERATION RESPONSIBILITY

營運責任

- Strengthening professional equipment management on the basis of the original equipment regular maintenance plan, and earnestly supervising the implementation of regular equipment maintenance work to ensure that the out-of-service equipment can meet the peak scheduling demand at any time;
- Organising and carrying out emergency plan investigation, reviewing the rectification of safety hazards, and implementing the hidden danger investigation and management and closed-loop management system; checking the allocation of emergency supplies and professional spare parts to ensure the availability of spare parts, ensure safe operation and controllable risks in case of emergencies to avoid delays in processing;
- According to the change of epidemic prevention and control level and the production practice of each Operating Station, reasonably arranging enough personnel on duty to ensure that units can start normally according to the requirements of the power grid, and ensuring that every operator is familiar with and masters the relevant or all contents of the emergency start-up plan for units, strictly implementing the relevant contents of the “Rules on Zhejiang Power System Dispatching”;
- Maintaining communication to ensure that the provincial calls are answered or delivered at all times and the power plant command system is unimpeded;
- 在原有的設備定期保養計劃基礎上強化專業設備管理、認真督促設備的定期保養工作的執行，確保停運的設備隨時滿足調度頂峰需求；
- 組織開展應急預案排查，對安全隱患整改情況進行複查，落實隱患排查治理和閉環管理制度。盤點應急物資和專業備品備件的配置，保證突發事件時有備品可用，安全運行，風險可控，避免延誤處理；
- 結合疫情防控等級變化、各營運點生產實踐等情況，合理安排足夠的值班人員，保證機組能夠根據電網要求正常啟動，確保每一名運行人員熟悉、掌握機組應急啟動預案的相關或全部內容，嚴格執行《浙江省電力系統調度規程》相關內容；
- 保持溝通，確保省調電話隨時有人接聽或傳達、電廠指揮系統暢通無阻；

OPERATION RESPONSIBILITY

營運責任

- Strictly implementing the primary responsibility for production safety as well as relevant regulations and standards on safety production, and strengthening various safety management measures on the entering plants (sites) for construction by maintenance, technical transformation and other outsourced construction units, strengthening management efforts especially in safety education and training, special operation supervision, construction team management, contracting qualifications and site access, etc., and resolutely and effectively preventing construction safety accidents; and
- Strengthening guards on duty. Unidentified persons are not allowed to enter the plant without permission.
- 嚴格落實安全生產主體責任，嚴格執行有關安全生產法規和規範標準，加強檢修、技改等外包施工單位進廠(場)施工各項安全管理措施，特別要在安全教育培訓、特種作業監督、施工班組管理、承包資質及現場准入等方面加大管理力度，堅決有效防範施工安全事故；及
- 加強門衛值守，未經許可，不明身份人員一律不得入廠。

During the special period of power curtailment and the period of tight power supply and demand caused by severe cold weather in the Year, the Group still fully supported the power supply guarantee, and took on the important task of ensuring power supply through measures such as strengthening the planned maintenance management of units and strengthening the full operation management of units.

Meanwhile, in order to reduce production safety risks, each Operating Station has established leading taskforce for the construction of safety risk management and control system based on operational practices, which is headed by the general manager of each Operating Station, with relevant personnel from the safety management department and technical department as team members. The team is mainly responsible for hazard identification, risk assessment and risk control planning, as well as the implementation of various risk control measures. If a potential hazard with higher risk is identified, the Group will formulate response and mitigation measures to reduce its negative impact on the production process. During the Year, the Group conducted a total of over 20 major safety inspections, identified over 600 risks of various types, and rectified all of them. During the Year, there were no incidents affecting the safety and stability of power supply at the Operating Stations.

在本年度較為特殊的限電時期及嚴寒天氣所導致的電力供需緊張時期，本集團同樣全力支持電力保供，通過加強機組計劃檢修管理、加強機組滿發運行管理等措施扛起保電重任。

同時，為減低生產安全風險，各營運點結合營運實踐，設有安全風險管控體系建設領導小組，並由各營運點總經理擔當組長，而安全管理部門、技術部門等相關人員擔任小組成員。小組主要負責危害辨識、風險評估和風險控制策劃，以及各項風險控制措施的落實。如識別到風險較高的潛在危害，本集團將制定應對及減緩措施，減輕其對生產過程的負面影響。年內，本集團共開展安全大檢查近20餘次，辨識各類風險600餘項，且均已完成整改。本年度，各營運點並無發生與影響供電安全性與供電穩定性相關的事件。

OPERATION RESPONSIBILITY

營運責任

In addition, with the gradual strengthening of national requirements for power network and information security and in order to meet the requirements of power grid management, the Group has strictly implemented the primary responsibility and security protection requirements for network security, and earnestly studied and implemented the relevant requirements of the “Cybersecurity Law of the People’s Republic of China”, “Provisions on Safeguarding the Security of Power Monitoring Systems” and “The Grid Operation Code” by fully implementing the network security management system in combination with operational practices, carrying out in-depth investigation and management of network security risks, timely revising and improving network security emergency plans, organising and carrying out emergency drills with incident handling as the core to effectively improve the network security emergency handling capability, and assigning designated personnel to be responsible for the daily monitoring and inspection of the power dispatching data network, power dispatching automation system and power plant computer monitoring system. Meanwhile, each Operating Station has also gradually upgraded the corresponding dispatching and communication devices according to the new security requirements, so as to meet the safe operation requirements for regional protection information upload and prevent network security problems.

Due to the business nature, the Group is not involved in product labeling, product recall, advertising and customer privacy matters, and therefore has no relevant policies and measures in place. No customer complaints were received from the Operating Stations during the Year.

另外，隨著國家對電力網絡與資訊安全工作要求的逐步加強，為符合電網管理要求，本集團嚴格落實網路安全主體責任和安全防護要求，認真學習貫徹《中華人民共和國網路安全法》、《電力監控系統安全防護規定》及《電網運行準則》等相關要求，結合營運實踐全面落實網路安全管理制度，深入開展網路安全隱患排查治理工作，及時修訂和完善網路安全應急預案，組織開展以事件處置為核心的應急演練，切實提高網路安全應急處置能力，並安排專人負責電力調度資料網路、電力調度自動化系統和發電廠電腦監控系統的日常監測檢查。與此同時，各營運點亦已逐步根據新的安防要求進行了相應的調度通信裝置升級，以滿足地區保護資訊上傳安全運行要求，防止網路安全方面的問題。

由於業務性質關係，本集團並不涉及產品標籤、產品回收、廣告及客戶隱私事宜，因此未有相關政策及措施。各營運點於本年度亦未有接獲任何客戶投訴個案。

OPERATION RESPONSIBILITY

營運責任

SUPPLY CHAIN MANAGEMENT

A harmonious upstream and downstream relationship is an important condition for the sustainable development of an enterprise. The Group is not only committed to continuously improving its own sustainable development level, but also committed to strengthening the sustainability of the entire supply chain and strengthening the Group's sustainable procurement capabilities. In terms of supplier categories, the Group's suppliers are mainly natural gas suppliers and equipment suppliers. As the pipeline natural gas procurement in Zhejiang Province is dominated by the government, the Group's natural gas is mainly provided by its supplier, Zhejiang Zheneng Natural Gas Pipeline Network Co., Ltd., which ensures the sustainability of the Group's natural gas supply chain to a certain extent. The Group's equipment procurement is mainly based on bidding. Due to the unique feature of the generator set equipment at each Operating Station, the selection range of related equipment and service providers is relatively limited. Based on industry characteristics and operational characteristics, the Group has formulated a series of supply chain management systems, including the "Measures for the Administration of Bidding of Puxing Energy Power Plant Management Center", the "Measures for the Administration of Material Procurement of Puxing Energy Power Plant Management Center" and the "Measures for the Administration of Material Supplier Management of Puxing Energy Power Plant Management Center", covering the operation modes of three procurement methods, being bidding procurement, centralised procurement and independent procurement, as well as the management measures for the whole process from admittance, evaluation to withdrawal of suppliers, actively incorporated ESG factors into the evaluation scope, and promoted the development of procurement with a standardised system.

供應鏈管理

和諧共進的上下游關係是企業可持續發展的重要條件，本集團不僅致力於不斷提升自身的可持續發展水準，同時致力於加強整個供應鏈的可持續性，並強化本集團的可持續採購能力。在供應商類別方面，本集團供應商主要以天然氣供應商及設備供應商為主。由於浙江省的管道天然氣採購系由政府主導，本集團的天然氣主要是由供應商浙江浙能天然氣管網有限公司負責提供，令本集團的天然氣供應鏈的可持續性獲得一定程度的保障。本集團設備採購以招標方式為主，受限於各營運點的發電機組設備的獨特性，相關設備及服務供應商選擇範圍相對狹窄，經結合行業特性及營運特點制定了《普星能量電廠管理中心招標管理辦法》、《普星能量電廠管理中心物資採購管理辦法》及《普星能量電廠管理中心物資供應商管理辦法》等一系列供應鏈管理制度，覆蓋招標採購、集中採購、自主採購三種採購方式的運行模式及供應商從准入、評估到退出全流程的管理措施，積極將ESG因素納入評估範圍，以規範化的制度，推進採購工作的展開。

OPERATION RESPONSIBILITY

營運責任

Supplier admittance 供應商准入

For new suppliers, the Group conducts enterprise qualification review work, and includes the basic business qualifications, the advanced level of major production equipment and testing equipment, production scale, financial capacity, main product technical indicators, quality standards, after-sales service of the suppliers and other ESG factors in the review. Before bidding, on-site due diligence will be organised for bulk purchasing groups to evaluate the scale, production technology and environmental protection qualifications of suppliers, and suppliers who have passed the enterprise qualification review or comprehensive capability assessment will be included in the “Qualified Supplier List” in due course.

對於新增供應商，本集團開展企業資質審查工作，將供應商基本工商資質、主要生產設備與檢測設備先進水準、生產規模、財務能力、主要產品技術指標、品質水準、售後服務情況等ESG因素納入審查工作。在招標前，對於大宗採購集團會組織現場盡調，對供應商規模、生產工藝、環保資質進行評估，通過企業資質審查或綜合能力評估的供應商將被適時納入《合格供應商名冊》。

Supplier assessment and re-evaluation 供應商的考核及再評價

The Group implements dynamic management on the “Qualified Supplier List”, and conducts assessments at an annual basis. Revision to the “Qualified Supplier List” may be made according to the assessment results.

本集團對《合格供應商名冊》實施動態管理，並以每年評定一次的頻率進行考核，根據考核結果對《合格供應商名冊》進行修訂。

Supplier withdrawal 供應商退出

In addition to the bankruptcy of suppliers, the Group will refuse to cooperate with suppliers who are found to have resorted to fraud, coercion, bid rigging and other illegitimate means during the process of cooperation with the Group; suppliers with unsatisfactory assessment results will also be eliminated.

除供應商破產外，在與本集團合作過程中，被發現採用欺詐、脅迫、串標等不正當手段的供應商，本集團將拒絕與其再合作；供應商考核結果不合要求的供應商亦將予以淘汰。

OPERATION RESPONSIBILITY

營運責任

The Group is well aware of the importance of energy conservation in the whole life cycle. In terms of energy conservation in operation, it is inseparable from careful selection in the procurement process. Therefore, in the procurement of major energy-consuming equipment, large-brand equipment with better operation efficiency, better energy-saving performance and longer expected service life are selected, and the relevant supervision has been incorporated into the above-mentioned supply chain management process. In addition, we also purchase regular maintenance and repair services from the original manufacturer to ensure the smooth and safe operation of units, reduce equipment failures, extend service life, and avoid major repairs caused by failures and interruptions to the power generation and heating business. The operation and maintenance records of each Operating Station relating to the periodic inspection of equipment will be monitored.

During the Year, the Group had a total of 36 new suppliers and a total of 84 qualified suppliers. In the review on suppliers that the Group had cooperated with, the number of suppliers that had been implemented with ESG-related practices was 55, accounting for 65%. In the future, the Group plans to further refine the ESG-related assessment factors in the supplier admittance and assessment process to enhance the sustainability of its supply chain.

本集團深知全生命週期節能的重要性，就運行節能而言，離不開採購環節的精挑細選，為此在主要耗能設備的採購上，均選用運行效果較好、節能性能較高、預期使用壽命較長的大品牌設備，相關監察已納入上述的供應鏈管理流程。此外，我們亦採購原廠的定期維護檢修服務，以確保機組運行暢順和安全，減少設備故障，延長使用壽命，避免因故障導致的重大修理和對發電與供熱業務帶來的中斷影響，各營運點定期檢查設備的運維記錄進行監察。

年內，本集團共有新進供應商36家，共有合格供應商84家，在已合作供應商的審核中，向其執行與ESG有關慣例的供應商數目為55家，比例為65%。未來，本集團計劃在供應商准入及評估流程中進一步細化ESG相關評估因素，以提升供應鏈可持續性。

The Number of Suppliers of Puxing Energy by Region
普星能量按地區劃分的供應商數量



CO-BUILDING THE COMMUNITY

社區共建

The Group is well aware that the rapid development of an enterprise cannot be achieved without the support and understanding of the government and the community where it operates. While actively building and continuously providing stable energy supply to the country, the Group is also committed to becoming an excellent corporate citizen and adheres to the synergy between the enterprise and the community. It supports community building by encouraging and organising employees to participate in volunteer activities, etc.

In order to establish an effective and long-term mechanism for community co-building, each Operating Station actively organises employees to participate in various community activities based on the principle of “paying attention to community development, maintaining communication with the community and actively participating in community activities” and in accordance with the needs of the community where it operates. During the Year, each Operating Station focused on education, agricultural assistance, environmental protection, healthcare and other aspects, participated in a total of 14 public welfare projects (2020: 11), invested RMB9,877 (2020: RMB6,766), and 219 employees participated successively in public welfare activities (2020: 117 employees), contributing a total of 235 volunteer hours (2020: 334 volunteer hours).

本集團深知企業的飛速發展離不開政府、所在社區的支持和理解，在積極建設、持續為國家提供穩定能源供應的同時，本集團亦致力於成為優秀的企業公民，堅持企業與社區協同發展的思路，通過鼓勵、組織員工參與志願者活動等多種方式，支援社區建設。

為建立有效的社區共建長效機制，各營運點以「關注社區動態，保持與社區溝通，積極參與社區活動」為原則，因應所屬社區需要，積極組織員工參與各項社區活動。年內，各營運點聚焦於教育、助農、環境保護、醫療健康等範疇，共參與公益專案14個（二零二零年：11個），投資人民幣9,877元（二零二零年：人民幣6,766元），先後有219人次投入公益活動（二零二零年：117人次），共貢獻235義工小時（二零二零年：334義工小時）。

Power plant 電廠	Contribution aspect 貢獻範疇	Name of project 項目名稱	Number of volunteers 義工人次	Volunteer hours 義工時數	Investment amount 投資金額 (RMB) (人民幣)
Jingxing Power Plant 京興電廠	Labour Demand 勞工需求	• Employee Consolation Visit 慰問困難員工	3	2	1,000
	Education 教育	• Sports Supplies Donation for Migrant Primary Schools 為民工小學體育用品捐贈	5	3	1,000
	Health 健康	• Organising Blood Donation 組織獻血	6	3	Not directly involved 不直接涉及

CO-BUILDING THE COMMUNITY

社區共建

Power plant 電廠	Contribution aspect 貢獻範疇	Name of project 項目名稱	Number of volunteers 義工人次	Volunteer hours 義工時數	Investment amount 投資金額 (RMB) (人民幣)
Anji Power Plant 安吉電廠	Labour Demand 勞工需求	• Employee Consolation Visit 慰問困難員工	2	2	200
		• Setting up Love Station for Sanitation Workers to Provide Drinking Water and Air Conditioning 設愛心驛站為環衛工人提供飲水、空調	Not involved 不涉及	Not involved 不涉及	200
	Agricultural Assistance 助農	• Produce Procurement 購買農產品	52	100	4,200
Deneng Power Plant 德能電廠	Environment 環境	• Picking up Litter in Fuxi River Basin 於阜溪河流域撿拾垃圾	11	2	Not directly involved 不直接涉及
		• Planting Saplings in Fuxi Street 於阜溪街道種植樹苗	20	40	1,500
	Health 健康	• Assisting County Epidemic Prevention and Control 助力縣城疫情防控	2	8	Not directly involved 不直接涉及
Bluesky Power Plant 藍天電廠	Health 健康	• Safety Patrol and Epidemic Prevention and Control Publicity 平安巡邏、疫情防控宣傳	2	60	Not directly involved 不直接涉及
		• Organising Blood Donation 組織獻血	3	3	Not directly involved 不直接涉及
Quzhou Power Plant 衢州電廠	Health 健康	• Epidemic Prevention Publicity in Hangbu Town 於航埠鎮開展防疫宣傳	2	8	Not directly involved 不直接涉及
	Environment 環境	• Waste-free Factory Publicity in Kecheng District 於柯城區開展無廢工廠宣傳	55	4	Not directly involved 不直接涉及
	Caring Donations 愛心捐款	• Charitable Donations 公益捐款	56	Not involved 不涉及	1,777
Total 總計			219	235	9,877

CO-BUILDING THE COMMUNITY 社區共建



Deneng Power Plant carried out tree planting activities during the Arbor Day in March 2021 to beautify the home while protecting the green

德能電廠於二零二一年三月植樹節期間開展植樹活動，在保衛綠色的同時，美化家園

Jingxing Power Plant donated sports supplies for migrant primary schools
京興電廠為民工小學捐贈體育用品



OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

ENVIRONMENTAL PERFORMANCE

環境表現

Environmental KPIs 環境關鍵績效指標	2021 2021年	2020 2020年	Unit 單位
A1.1 Types of emissions and related emissions data¹⁶ 排放物種類及相關排放數據¹⁶			
Nitrogen oxides (NOx) 氮氧化物	37,117	28,061	kg 千克
Sulphur oxides (SOx) 硫氧化物	2,809	2,975	kg 千克
Respirable suspended particulates (RSP) 可吸入懸浮粒子	3,924	1,588	kg 千克
A1.2 Total greenhouse gas emissions 溫室氣體總排放量			
Scope 1 Direct greenhouse gas emissions 範圍1直接溫室氣體排放	226,341	185,792	tonne of CO ₂ e 公噸二氧化碳當量
Scope 2 Energy indirect greenhouse gas emissions 範圍2能源間接溫室氣體排放	5,359	3,095	tonne of CO ₂ e 公噸二氧化碳當量
Scope 3 Other indirect greenhouse gas emissions 範圍3其他間接溫室氣體排放	–	–	tonne of CO ₂ e 公噸二氧化碳當量
Total greenhouse gas emissions 溫室氣體總排放量	231,700	188,887	tonne of CO ₂ e 公噸二氧化碳當量
Greenhouse gas intensity (in revenue) 總溫室氣體密度(以收益計算)	3.85	3.26	tonne of CO ₂ e/ RMB10,000 公噸二氧化碳當量/ 萬元人民幣
A1.3 Total hazardous wastes 有害廢棄物總量			
Total hazardous wastes ¹⁷ 有害廢棄物總量 ¹⁷	2.2	1.0	tonne 公噸
Hazardous waste intensity (in revenue) 有害廢棄物密度(以收益計算)	0.004	0.002	kg/RMB1,000 千克/千元人民幣

¹⁶ Among the waste gas emissions, only the decrease in sulfur dioxide emissions was due to the decrease in the sulfur content in natural gas, and since Anji Power Plant carried out the low-NOx transformation project during the Year, the increase in NOx emissions was relatively lesser than that of other waste gas emissions.

¹⁷ Due to the increase in equipment maintenance workload, the amount of waste mineral oil and waste containing mineral oil has increased significantly.

¹⁶ 廢氣排放中，僅有二氧化硫排放量降低是天然氣中含硫量下降所致，且由於安吉電廠年內進行了低氮改造項目故而氮氧化物排放量相較於其他廢氣排放量的增加相對較少。

¹⁷ 由於設備檢修工作量增大，導致廢礦物油及含礦物油廢物量大幅上升。

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

Environmental KPIs 環境關鍵績效指標		2021 2021年	2020 2020年	Unit 單位
A1.4	Total non-hazardous wastes 無害廢棄物總量			
	Total non-hazardous wastes 無害廢棄物總量	59.1	57.6	tonne 公噸
	Non-hazardous waste intensity (in revenue) 無害廢棄物密度(以收益計算)	0.098	0.099	kg/RMB1,000 千克/千元人民幣
A2.1	Total energy consumption 能源總耗量			
	<i>Direct energy</i> 直接能源	612,450	520,787	MWh 兆瓦時
	Gasoline 汽油	157	112	MWh 兆瓦時
	Diesel 柴油	19	-	MWh 兆瓦時
	Natural gas 天然氣	1,117,975	928,581	MWh 兆瓦時
	Acetylene ¹⁸ 乙炔 ¹⁸	7.11	0.05	MWh 兆瓦時
	Sold electricity (natural gas) 外售電力(天然氣)	(372,589)	(315,521)	MWh 兆瓦時
	Sold steam (heat, natural gas) 外售蒸汽(熱力, 天然氣)	(133,119)	(92,385)	MWh 兆瓦時
	<i>Indirect energy</i> 間接能源	7,617	5,074	MWh 兆瓦時
	Purchased electricity 外購電力	7,617	5,074	MWh 兆瓦時
	Total energy consumption 能源總耗量	620,067	525,861	MWh 兆瓦時
	Energy intensity (in revenue) 能源密度(以收益計算)	10.31	9.06	MWh/RMB10,000 兆瓦時/萬元人民幣
	Power generation (photovoltaic power generation) 發電量(光伏發電)	791	771	MWh 兆瓦時
	Sold electricity (photovoltaic power generation) 外售電力(光伏發電)	(100)	(82)	MWh 兆瓦時

¹⁸ Due to the increase in equipment maintenance workload, the consumption of acetylene has increased.

¹⁸ 由於設備檢修工作量增大，導致乙炔用量上升。

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

Environmental KPIs 環境關鍵績效指標		2021 2021年	2020 2020年	Unit 單位
A2.2	Total water consumption 總耗水量			
	Total water consumption 總耗水量	820,354	765,087	m ³ 立方米
	Water consumption intensity (in revenue) 耗水密度(以收益計算)	13.64	13.19	m ³ /RMB10,000 立方米/萬元人民幣
A2.5	Total packaging materials used for finished products 製成品所用包裝材料的總量			
	Packaging material consumption ¹⁹ 包裝材料耗用量 ¹⁹	N/A 不適用	N/A 不適用	N/A 不適用

¹⁹ The business operation of the Group does not involve the use of packaging materials.

¹⁹ 本集團業務並不涉及包裝材料的使用。

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

SOCIAL PERFORMANCE

社會表現

Employment category 僱傭類別		Number of Employees 員工人數	
		2021 2021年	2020 2020年
Full-time employee 全職員工			
Gender 性別	Male 男性	203	195
	Female 女性	63	63
Employee category 僱員類別	Senior management 高級管理人員	5	6
	Middle management 中級管理人員	30	30
	General staff 一般員工	231	222
Age 年齡	Aged under 30 三十歲以下	102	84
	Aged 30–40 三十歲至四十歲	102	114
	Aged 41–50 四十一歲至五十歲	51	50
	Aged over 50 五十歲以上	11	10
Total full-time employees 全職員工總計		266	258
Service subcontractors' employees 服務外包商員工		30	32
Total employees 員工總數		296	290

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

Number and percentage of newly hired employees and employee turnover 新入職及員工流失人數及比率		Number and percentage of newly hired employees 新入職人數及比率		Number and percentage of employee turnover 員工流失人數及比率	
		2021 2021年	2020 2020年	2021 2021年	2020 2020年
Gender 性別	Male 男性	42 (21%)	21 (11%)	36 (18%)	26 (13%)
	Female 女性	10 (16%)	5 (8%)	7 (11%)	10 (16%)
Age 年齡	Aged under 30 三十歲以下	45 (44%)	22 (26%)	24 (24%)	18 (21%)
	Aged 30–40 三十歲至四十歲	6 (6%)	3 (3%)	14 (14%)	10 (9%)
	Aged 41–50 四十一歲至五十歲	1 (2%)	1 (2%)	4 (8%)	7 (14%)
	Aged over 50 五十歲以上	– (0%)	– (0%)	1 (9%)	1 (10%)
	Total 總計	52 (20%)	26 (10%)	43 (16%)	36 (14%)

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

Occupational safety and health performance 職業安全健康表現	Employees 員工			Service Subcontractors' Employees 服務外包商員工		
	2021 2021年	2020 2020年	2019 2019年	2021 2021年	2020 2020年	2019 ²⁰ 2019年 ²⁰
Number and percentage of work-related fatalities 因工關係而死亡的人數及比率	– (0%)	– (0%)	– (0%)	– (0%)	– (0%)	N/A 不適用
Number and percentage of work-related injuries 因工受傷人數及比率	– (0%)	– (0%)	– (0%)	– (0%)	– (0%)	N/A 不適用
Lost days due to work injury 因工傷損失工作日數	– (0%)	– (0%)	– (0%)	– (0%)	– (0%)	N/A 不適用

²⁰ No service subcontractors' employee data was disclosed.

²⁰ 未有服務外包商員工數據披露。

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs)

關鍵績效指標總覽

Employee training		Number and percentage of employees trained ²¹		Training hours (hours)		Average training hours (hours) ²²	
		培訓人數及比率 ²¹		培訓時數(小時)		平均培訓時數(小時) ²²	
員工培訓		2021 2021年	2020 2020年	2021 2021年	2020 2020年	2021 2021年	2020 2020年
Gender 性別	Male 男性	203 (100%)	182 (93%)	5,894.7	5,520.5	29.0	28.3
	Female 女性	63 (100%)	61 (97%)	1,223.6	1,154	19.4	18.3
Employee category 僱員類別	Senior management 高級管理人員	5 (100%)	4 (67%)	74	134.5	14.8	22.4
	Middle management 中級管理人員	30 (100%)	25 (83%)	513.2	676	17.1	22.5
	General staff 一般員工	231 (100%)	214 (96%)	6,531.1	5,864	28.3	26.4
Total 總計		266 (100%)	243 (94%)	7,118.3	6,674.5	26.8	25.9

²¹ Calculation of the number of employees trained: Number of employees trained divided by the number of employees of the same type.

²² Calculation of average hours: The training hours of such type of employment divided by the number of employees of the same type.

²¹ 培訓人數的計算方法為：培訓人數除以同一類別的員工數目。

²² 平均時數的計算方法為：該僱傭類別培訓時數除以同一類別員工數目。

OVERVIEW OF KEY PERFORMANCE INDICATORS (KPIs) 關鍵績效指標總覽

Operating Station 各營運點	Region of suppliers 供應商所在地區	Products or services provided 所提供之產品或服務	Number of suppliers 供應商數目	Number of suppliers that implement relevant practices 執行相關慣例的供應商數目
Jingxing Power Plant, Anji Power Plant, Deneng Power Plant, Bluesky Power Plant, Quzhou Power Plant 京興電廠、安吉電廠、 德能電廠、藍天電廠、 衢州電廠	Zhejiang Province, Jiangsu Province and other provinces 浙江省、 江蘇省 以及其他省份	Natural gas, equipment, office supplies, chemical drugs, etc. 天然氣、設備、辦 公品、化學藥品等	84	55

APPENDIX 附錄

CONTENT INDEX TO THE REPORT

報告內容索引

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
A Environmental A 環境		
A1 Emissions A1 排放物		
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。	Environmental Protection Emissions Response to Climate Change 環境保護 排放物 應對氣候變化
A1.1	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	Emissions Response to Climate Change 排放物 應對氣候變化
A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 直接(範圍1)及能源間接(範圍2)溫室氣體排放量(以噸計算)及(如適用)密度(如以每產量單位、每項設施計算)。	Emissions Response to Climate Change 排放物 應對氣候變化
A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生有害廢棄物總量(以噸計算)及(如適用)密度(如以每產量單位、每項設施計算)。	Emissions 排放物
A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生無害廢棄物總量(以噸計算)及(如適用)密度(如以每產量單位、每項設施計算)。	Emissions 排放物
A1.5	Description of emissions 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。	Emissions 排放物
A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them. 描述處理有害及無害廢棄物的方法，及描述所訂立的減廢目標及為達到這些目標所採取的步驟。	Emissions 排放物

APPENDIX

附錄

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
<i>A2 Use of resources</i>		
A2 資源使用		
General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源 (包括能源、水及其他原材料) 的政策。	Environmental Protection Use of Resources 環境保護 資源使用
A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total (kWh in '000s) and intensity (e.g. per unit of production volume, per facility). 按類型劃分的直接及／或間接能源 (如電、氣或油) 總耗量 (以千個千瓦時計算) 及密度 (如以每產量單位、每項設施計算)。	Use of Resources 資源使用
A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility). 總耗水量及密度 (如以每產量單位、每項設施計算)。	Use of Resources 資源使用
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。	Use of Resources 資源使用
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。	Use of Resources 資源使用
A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced. 製成品所用包裝材料的總量 (以噸計算) 及 (如適用) 每生產單位佔量。	Use of Resources 資源使用
<i>A3 Environment and natural resources</i>		
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。	Environment and Natural Resources 環境及天然資源
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。	Environment and Natural Resources 環境及天然資源

APPENDIX

附錄

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
A4 Climate Change 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。	Response to Climate Change 應對氣候變化
A4.1	Description of the significant climate-related issues which have impacted, and those which may impact, the issuer, and the actions taken to manage them. 描述已經及可能會對發行人產生影響的重大氣候相關事宜，及應對行動。	Response to Climate Change 應對氣候變化
B Social B 社會		
Employment and Labour Practices 僱傭及勞工常規		
B1 Employment 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。	Employee Care 員工關懷
B1.1	Total workforce by gender, employment type (for example, full- or part-time), age group and geographical region. 按性別、僱傭類型（如全職或兼職）、年齡組別及地區劃分的僱員總數。	Employment System 僱傭制度
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。	Employment System 僱傭制度

APPENDIX

附錄

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
<i>B2 Health and safety</i>		
<i>B2 健康與安全</i>		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to 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。	Health and Safety 健康與安全
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（包括滙報年度）每年因工亡故的人數及比率。	Health and Safety 健康與安全
B2.2	Lost days due to work injury. 因工傷損失工作日數。	Health and Safety 健康與安全
B2.3	Description of occupational health and safety measures adopted, and 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。	Health and Safety 健康與安全
<i>B3 Development and training</i>		
<i>B3 發展及培訓</i>		
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
B3.1	The percentage of employees trained by gender and employee category (e.g. senior management, middle management). 按性別及僱員類別（如高級管理層、中級管理層）劃分的受訓僱員百分比。	Development and Training 發展及培訓
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。	Development and Training 發展及培訓

APPENDIX

附錄

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
<i>B4 Labour standard</i> 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 and 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 Standard 勞工準則
B4.1	Description of measures to review employment practices to avoid child and forced labour. 描述檢討招聘慣例的措施以避免童工及強制勞工。	Labour Standard 勞工準則
B4.2	Description of steps taken to eliminate such non-compliant 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。	Labour Standard 勞工準則
<i>Operating Practices</i> 營運慣例		
<i>B5 Supply chain management</i> 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
B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目。	Supply Chain Management 供應鏈管理
B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored. 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目、以及有關慣例的執行及監察方法。	Supply Chain Management 供應鏈管理
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。	Supply Chain Management 供應鏈管理
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。	Supply Chain Management 供應鏈管理

APPENDIX

附錄

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
<i>B6 Product responsibility</i> 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。	Product Responsibility 產品責任
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。	N/A 不適用
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。	Product Responsibility 產品責任
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。	N/A 不適用
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。	N/A 不適用
B6.5	Description of consumer data protection and privacy policies, and how they are implemented and monitored. 描述對消費者資料保障及私隱政策，以及相關執行及監察方法。	N/A 不適用

APPENDIX

附錄

Subject Areas and Aspects 主要範疇與層面	Content in the Guide 《指引》內容	Chapter 章節索引
<i>B7 Anti-corruption</i> <i>B7 反貪污</i>		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to 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
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。	Anti-corruption 反貪污
B7.2	Description of preventive measures and whistle-blowing procedures, and how they are implemented and monitored. 描述防範措施及舉報程序，以及相關執行及監察方法。	Anti-corruption 反貪污
B7.3	Description of anti-corruption training provided to directors and employees. 描述向董事及員工提供的反貪污培訓。	Anti-corruption 反貪污
Community 社區		
<i>B8 Community investment</i> <i>B8 社區投資</i>		
General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests. 有關以社區參與來了解營運所在社區需要和確保其業務活動會考慮社區利益的政策。	Co-building of the Community 社區共建
B8.1	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport). 專注貢獻範疇 (如教育、環境事宜、勞工需求、健康、文化、體育)。	Co-building of the Community 社區共建
B8.2	Resources contributed (e.g. money or time) to the focus area. 在專注範疇所動用資源 (如金錢或時間)。	Co-building of the Community 社區共建

APPENDIX

附錄

HONORS AND AWARDS

In 2021, the Group obtained the following major honors and awards:

榮譽與獎項

二零二一年本集團所獲得的主要榮譽與獎項如下：

Award-winning Unit 獲獎單位	Awards 獎項
Anji Power Plant 安吉電廠	<ul style="list-style-type: none">“Huzhou Statistical Integrity Demonstration Enterprise” rewarded by the Huzhou Municipal Bureau of Statistics (March 2021) 獲湖州市統計局頒發的「湖州市統計誠信示範企業」(二零二一年三月)
Jingxing Power Plant 京興電廠	<ul style="list-style-type: none">“Advanced Unit of Power Supply Guarantee in 2021” rewarded by the State Grid Huzhou Power Dispatching Control Centre and the Marketing Department (Rural Power Work Department) of State Grid Huzhou Power Supply Company (December 2021) 獲國網湖州電力調度控制中心、國網湖州供電公司市場行銷部(農電工作部)頒發的「2021年度電力保供先進單位」(二零二一年十二月)
Quzhou Power Plant 衢州電廠	<ul style="list-style-type: none">“Quzhou Municipal Government Special Award – Star Award for Average Benefit per Mu” rewarded by the Quzhou Municipal Committee of the Communist Party of China and the People’s Government of Quzhou Municipality (March 2021) 獲中共衢州市委、衢州市人民政府頒發的「衢州市政府特別獎-畝均效益之星獎」(二零二一年三月)“2020 Financial Contribution Award in Kecheng District” rewarded by the People’s Government of Kecheng District of Quzhou Municipality (March 2021) 獲衢州市柯城區人民政府頒發的「柯城區2020年度財政貢獻獎」(二零二一年三月)“Enterprises with Harmonious Labour Relations in Quzhou” rewarded by the Office of Tripartite Conference on Coordinating Labour Relations of Quzhou Municipality (December 2021) 獲衢州市協調勞動關係三方會議辦公室頒發的「衢州市勞動關係和諧企業」(二零二一年十二月)
Deneng Power Plant 德能電廠	<ul style="list-style-type: none">“Economic Development Progress Award” rewarded by the Management Committee of Mogan Mountain of Huzhou Hi-tech Industry Development Zone (February 2021) 獲湖州莫干山高新技術產業開發區管理委員會頒發的「經濟發展進步獎」(二零二一年二月)

APPENDIX 附錄

JOINED ASSOCIATIONS

加入協會

Subjects 參會主體	Name of Associations 協會名稱
Jingxing Power Plant 京興電廠	<ul style="list-style-type: none">Huzhou Electric Power Trade Association (joined in 2019) 湖州市電力行業協會 (二零一九年加入)
Quzhou Power Plant 衢州電廠	<ul style="list-style-type: none">Quzhou Special Equipment Technical Association (joined in 2016) 衢州市特種設備技術協會 (二零一六年加入)City Federation of Industry and Commerce (joined in 2018) 城工商聯協會 (二零一八年加入)

APPENDIX

附錄

READERS' FEEDBACK

Dear Readers,

Thank you for reading this Report. This is the sixth ESG Report prepared by Puxing Energy. In order to continuously enhance and improve the sustainable development management of the Group, we sincerely hope to receive opinions or suggestions from you on this Report. Please help to complete the following form and return to us by email to info@puxingenergy.com.

1. What is your opinion to this Report?
 Good Fair Bad
2. Do you think the information and data disclosed in this Report are clear, accurate and complete?
 Yes Not quite Rarely
3. Do you think this Report reflects the significant influence of Puxing Energy to the economy, society and environment?
 Yes Not exactly No
4. How do you think of Puxing Energy's performance in safeguarding the interests of stakeholders?
 Good Moderate Poor
5. Your opinions or suggestions on the sustainable development management of Puxing Energy:

Please leave your contact information if convenient:

Name:
Occupation:
Company:
E-mail:
Tel:
Contact address:
Postal code:

Thanks for your feedback. We will take thorough consideration of your opinions and suggestions and make sure your personal information is handled properly.

讀者回饋

尊敬的讀者：

您好!感謝您閱讀本報告。這是普星能量編寫的第六份ESG報告，為了不斷提高和改進我們的可持續發展管理，我們真誠地希望獲取來自您的寶貴意見和建議。請您協助完成本頁內容並電郵至info@puxingenergy.com回饋給我們。

1. 您對本報告的總體評價是？
好 一般 差
2. 您認為本報告在資訊和資料披露的清晰度、準確性和完整性上表現如何？
好 一般 差
3. 您認為本報告在反映普星能量對經濟、社會和環境的重大影響方面表現如何？
好 一般 差
4. 您認為普星能量在維護相關方利益方面做得如何？
好 一般 差
5. 您對普星能量可持續發展管理的意見和建議：

如果方便，請留下您的聯繫方式：

姓名：
職業：
工作單位：
電郵地址：
聯繫電話：
聯繫地址：
郵編：

感謝您的回饋，我們將充分考慮您的意見和建議，並承諾妥善保管您的資訊。

普星能量有限公司

PUXING ENERGY LIMITED

Room 706, 7/F., Albion Plaza, 2-6 Granville Road,

Tsim Sha Tsui, Kowloon, Hong Kong

香港九龍尖沙咀加連威老道2-6號

愛寶商業大廈7樓706室

www.puxing-energy.com