

# 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

## 2020 環境、社會及管治報告 Environmental, Social and Governance Report



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## 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 the “Group”) is mainly engaged in the development, operation and management of natural gas-fired power plants in the People’s Republic of China (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”), which was acquired during the Year. These five power plants (collectively referred to as the “Operating Stations”, each a “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 provides steam to nearby manufacturers through heating pipes. Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant under the Group has established photovoltaic power generation units, which are mainly used to supplement the auxiliary power consumption rate of the said power plants, and the remainder will be sold to the power grid.

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「本集團」)主要在中華人民共和國(「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(「安吉電廠」)、浙江普星京興然氣發電有限公司(「京興電廠」)、浙江普星德能然氣發電有限公司(「德能電廠」)、浙江普星藍天然氣發電有限公司(「藍天電廠」), 以及於年內完成收購的衢州普星燃機熱電有限公司(「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, 主要用作補充上述電廠用電之用, 剩餘部份亦會出售予電網。

## ABOUT THE GROUP

### 關於本集團

The aggregate installed capacity of these five power plants of the Group amounted to approximately 688 megawatts (MW) (2019: 458MW), including 731 kilowatts (kW) (2019: 578kW) of photovoltaics 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 Year was equivalent to a reduction of emissions of 471 tonnes of carbon dioxide equivalent (CO<sub>2</sub>e), representing an increase of approximately 19.8% over the reduction in carbon dioxide emissions due to photovoltaic power generation last year (393 tonnes of CO<sub>2</sub>e).

本集團五間電廠總裝機容量達約688兆瓦(2019年: 458兆瓦), 當中包括京興電廠、安吉電廠及衢州電廠731千瓦(2019年: 578千瓦)的光伏發電機組。本年度由光伏發電產生的總發電量相當於減少了471公噸二氧化碳排放, 較去年光伏發電減少的二氧化碳排放量(393公噸二氧化碳當量)增加約19.8%。

| Energy supply of the Group for the Year<br>本集團年度供能                                     | 2020<br>2020年 | 2019<br>2019年 | Unit<br>單位  |
|----------------------------------------------------------------------------------------|---------------|---------------|-------------|
| Natural gas power generation<br>天然氣發電量                                                 | 326,394       | 84,015        | MWh<br>兆瓦時  |
| Electricity generated by natural gas power sold<br>天然氣發電出售電量                           | 315,521       | 81,733        | MWh<br>兆瓦時  |
| Heat generated by natural gas <sup>1</sup><br>天然氣發熱量 <sup>1</sup>                      | 133,491       | 107,758       | tonne<br>公噸 |
| Heat generated by natural gas sold<br>天然氣供熱量                                           | 112,652       | 97,639        | tonne<br>公噸 |
| Photovoltaic power generation <sup>2</sup><br>光伏發電量 <sup>2</sup>                       | 771           | 645           | MWh<br>兆瓦時  |
| Electricity generated by photovoltaic power sold <sup>3</sup><br>光伏發電出售電量 <sup>3</sup> | 82            | 89            | MWh<br>兆瓦時  |

<sup>1</sup> Only Anji Power Plant and Quzhou Power Plant are engaged in natural gas heating business.

<sup>2</sup> Only Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant are engaged in photovoltaic power generation projects.

<sup>3</sup> 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 internal consumption only.

<sup>1</sup> 僅安吉電廠及衢州電廠涉及天然氣供熱業務。

<sup>2</sup> 僅京興電廠、安吉電廠及衢州電廠涉及光伏發電項目。

<sup>3</sup> 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內部使用。

## ABOUT THE GROUP

### 關於本集團

2021 is the year to kick-start the PRC's "14th Five-Year Plan". The PRC's goal and vision of peaking carbon emission and achieving carbon neutrality means that it will accelerate the development of new energy and optimise its energy structure to embark on a green, low-carbon and circular development path. With energy business as its core in development, the Group is actively transforming itself into an integrated energy supplier and an energy enterprise with diversified energy businesses through identifying opportunities from the implementation of the national new energy policies, thus creating sustainable value to the Group's shareholders and stakeholders in the long run.

二零二一年是中國「十四五」規劃開局之年。中國提出碳達峰、碳中和的目標和願景，將發展新能源及優化能源結構，發展綠色、低碳及循環的路徑。本集團以能源為發展核心，積極轉型為一家綜合能源供應商，在國家新能源政策下尋找機遇，實現能源業務多元化發展為目標的能源企業，長遠為本集團的股東及持分者帶來持續價值。

## ABOUT THIS REPORT

### 關於本報告

This is the Environmental, Social and Governance (ESG) Report (the “Report”) published by the Group for 2020, which details the Company’s philosophy on sustainable development, the policies and initiatives implemented, and the progress and performance during the Year. The Report is prepared in both Chinese and English and has been uploaded to the websites of The Stock Exchange of Hong Kong Limited (the “Stock Exchange”) ([www.hkexnews.hk](http://www.hkexnews.hk)) and the Group ([www.puxing-energy.com](http://www.puxing-energy.com)).

#### REPORTING SCOPE

This Report discloses the ESG performance of the Group during the financial year from 1 January 2020 to 31 December 2020 (the “Year”). For the Year, in addition to reporting the annual performance of the Group’s business operations related to power generation and heating business at its power plants located in Zhejiang Province, namely, Anji Power Plant, Jingxing Power Plant, Deneng Power Plant and Bluesky Power Plant, this Report also included the power generation and heating business of Quzhou Power Plant, which was acquired during the Year. However, as Quzhou Power Plant was formally incorporated into the Group’s business since 30 September 2020, only the performance of Quzhou Power Plant from October to December 2020 is disclosed in this Report. The operating income from the Operating Stations accounted for 100% of the total revenue of the Group. This Report does not include other operations of the Group (such as office in Hong Kong and 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.

本報告為本集團二零二零年度《環境、社會及管治報告》(「本報告」)，詳述本公司於可持續發展的理念，所落實的政策及措施，以及於年內的進展及表現。本報告以中、英文編寫，並已刊載至香港聯合交易所有限公司(「聯交所」)網站([www.hkexnews.hk](http://www.hkexnews.hk))及本集團網站([www.puxing-energy.com](http://www.puxing-energy.com))。

#### 報告範圍

本報告匯報本集團於二零二零年一月一日至二零二零年十二月三十一日之財政年度內(「本年度」或「年內」)的環境、社會及管治表現。本年度，本報告除了匯報本集團於浙江省的安吉電廠、京興電廠、德能電廠及藍天電廠的發電及供熱業務全年之表現外，亦新增於年內完成收購的衢州電廠的發電及供熱業務。然而，由於衢州電廠自二零二零年九月三十日起正式納入本集團業務，本報告只披露衢州電廠的二零二零年十月至十二月的表現。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：位於香港的辦公室及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信息。

# ABOUT THIS REPORT

## 關於本報告

### REPORTING GUIDELINES

This Report is prepared in accordance with the “Environmental, Social and Governance Report Guide” (the “Guide”) in Appendix 27 of the Rules Governing the Listing of Securities on the Main Board of 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 Guide when reading the Report.

### 報告準則

本報告依循聯交所發佈的《主板證券上市規則》附錄二十七《環境、社會及管治報告指引》（「《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《指引》閱讀本報告。

| Reporting principle<br>匯報原則 | Application in this Report<br>在本報告中的應用                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materiality</b><br>重要性   | The Group identified important ESG issues that have a great impact on the Group's business through the board (the “Board”) of directors (the “Directors”)’s questionnaire, and disclosed the key issues in the Report. 本集團透過董事（「董事」）會（「董事會」）問卷，識別對本集團的業務影響較大的重要環境、社會及管治議題，並於本報告作出重點披露。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Quantitative</b><br>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 quantitative information on the social KPIs in this Report was sourced from the statistics 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。 |
| <b>Balance</b><br>平衡        | This Report is reported in an impartial manner to ensure that information disclosed faithfully reflects the results, difficulties 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環境、社會及管治方面的成果、困難以及解決方案。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

# 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

#### Consistency 一致性

Where feasible, the Group uses consistent statistical methods to allow for 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.

本集團在可行情況下使用一致的統計方法，讓環境、社會及管治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。

## CONFIRMATION AND APPROVAL

All information referred to in this Report is derived from the official internal documents 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 6 July 2021.

## 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](mailto: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文件、統計數據，以及根據本集團制度所收集的管理和營運資料。本報告已於二零二一年七月六日獲董事會確認及批准通過。

## 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](mailto:info@puxing-energy.com)) 與本集團聯絡。

# MESSAGE FROM THE DIRECTORS

## 董事寄語

The Group is pleased to publish the 2020 ESG report, which aims at reporting the Group's commitment, policies and performances of the sustainability development during the Year to various stakeholders.

The outbreak of the Coronavirus Disease 2019 ("COVID-19") had an unprecedented impact on economic activities and people's lives around the world, and has brought about a new normal in different industries. As such, the Group is actively taking into account the sustainability factors in its business strategies and policies, so that it is able to make its business plans in advance to capture opportunities and response to current and potential risks, so as to achieve sustainable business development. The Group was in good compliance with the PRC government's anti-pandemic policies and adopted stringent anti-pandemic measures during the outbreak of COVID-19, including free supply of medical masks, hand sanitizer and disinfection products to employees and the disinfection of all plants, in order to minimise the risk of virus transmission and infection and enable employees to continue to work in a safe and healthy environment. For the year ended 31 December 2020, the Group did not have any confirmed cases of COVID-19.

Benefiting from the completion of acquisition of 100% equity interest in Quzhou Power Station during the Year, the Group's aggregate installed power generation capacity significantly increased by 50%. In order to effectively reflect the sustainability issues of the newly acquired Quzhou Power Plant, the Group has included it in the scope of this Report to enhance the transparency of the Group's sustainability issues by disclosing its sustainability strategy and performance after its formal incorporation into the Group.

本集團欣然提呈二零二零年度《環境、社會及管治報告》，旨在向各持份者匯報本集團年內的可持續發展承諾、政策及績效。

2019年冠狀病毒疫情（「新冠疫情」）為全球經濟活動及人民生活帶來前所未有的衝擊，疫情使不同行業帶來新常態。故此，本集團正積極將可持續發展因素納入業務策略及政策當中，使其經營業務時能夠未雨綢繆，把握機遇，以及應對當前及潛在風險，實踐企業持續發展。疫情期間，本集團積極配合中國政府的防疫政策，採取嚴格的疫情防控措施，包括向員工免費提供醫用口罩、洗手液及消毒用品，以及於各廠區進行消毒，務求將病毒傳播感染的風險減至最低，使員工能夠在一個安全及健康的環境下繼續上班。截至二零二零年十二月三十一日止年度，本集團未有出現任何新冠肺炎確診個案。

本年度，本集團完成收購衢州電廠100%股權，使本集團的發電總裝機容量大幅增加50%。為了有效反映新收購的衢州電廠的可持續發展事宜，本集團已於本報告將其納入報告範圍內，透過披露其可持續發展策略及正式納入本集團後的績效表現，加強本集團可持續發展事宜的透明度。

## MESSAGE FROM THE DIRECTORS

### 董事寄語

During the outbreak of COVID-19, there were less opportunities for the Group to meet and communicate with stakeholders, such as government and regulatory bodies, business partners and suppliers. To this end, the Group maintained effective communication with individual stakeholders through the use of online meetings or telephone calls. During the Year, the Group also conducted an online questionnaire for the Board through external consultants to identify ESG issues that have significant impact on Puxing Energy, which included environment and natural resources, use of resources, health and safety, employment, anti-corruption and product responsibility. These issues, in addition to being the key reporting areas of this Report, will also serve as a key basis to assist the Group in establishing its future sustainable development.

In line with President Xi Jinping's proposal at the end of 2020 to achieve the goal of carbon neutrality by 2060, the Group will firmly align with the national policy and continue to develop as an integrated energy supplier with energy business as its core in development. The Group will incorporate green, low-carbon and circular economy into its corporate development blueprint by developing new energy sources and optimising its energy structure. The Group is planning to develop a climate change strategy and set environmental targets so that it can provide safer, more reliable and environmentally-friendly electricity services to its customers while addressing current and potential sustainability risks, thereby realising sustainable value for its stakeholders and shareholders.

**Xu Anliang**  
*Chairman*

Puxing Energy Limited  
Zhejiang Province, the PRC, 6 July 2021

在疫情期間，本集團與各持份者，如政府監管機構、業務夥伴、以及供應商等，會面交流的機會減少。為此，本集團透過採用網上會議或電話的形式與各持份者維持有效溝通。本集團亦於年內透過外部顧問為董事會進行了一次網上問卷調查，識別對普星能量有重大影響的環境、社會及管治議題，所識別的議題包括：環境及自然資源、資源使用、健康與安全、僱傭、反貪污及產品責任。這些議題除了作為本報告的重點匯報部分外，亦會成為協助本集團奠定未來可持續發展路向的重點基礎。

隨著國家主席習近平於二零二零年底提出爭取在二零六零年前實現碳中和目標，本集團將堅定配合國家的政策，並繼續以能源為發展核心，發展成為一家綜合能源供應商。本集團將透過開發新能源及優化能源結構，將綠色、低碳及循環經濟納入本集團的企業發展藍圖之中。本集團正計劃制定氣候變化策略及制定環境目標，以在應對當前及潛在可持續發展風險的同時，能夠為客戶提供更安全、更可靠及環保電力服務，為持份者及股東實現可持續價值。

**徐安良**  
*董事長*

普星能量有限公司  
中國浙江省，二零二一年七月六日

# GOVERNANCE STRUCTURE

## 管治架構

The Group has been adamant in upholding high standards of corporate governance to maximise operational efficiency, corporate values and shareholders' returns. The Board is responsible for leading and overseeing the Group's business strategies and business development, and delegates to the executive Directors and management to carry out and manage the day-to-day business operations.

Meanwhile, the Board is ultimately responsible for the sustainability of the Group, including overseeing sustainability issues, identifying and managing environmental and social risks, and delegating authority to the Operating Stations to implement relevant policies and measures. Looking ahead, the Group plans to formulate management policies and strategies for its long-term sustainable development, and further implement a sustainability governance framework to ensure the effective implementation of relevant policies and measures.

### ESG RISK MANAGEMENT

The Board is fully responsible for maintaining a sound and effective risk management and internal control system, and shoulders the responsibility for managing and ongoing monitoring the Group's financial, operational, compliance and risk management. The Board manages the Group's risks using complementary approach based on utilising a top-down plus a bottom-up process. The Board is responsible for setting strategic goals and monitoring the nature and extent of risks, and delegates to the management to design, implement and monitor risk management and internal control systems and to assess the Group's risks and mitigation measures; while the business departments are responsible for identifying, assessing and mitigating risks and implementing risk control measures to ensure that risks are managed within an acceptable level. The Board, with the support of the Audit Committee, reviews the effectiveness of the risk management and internal control system at least once a year to ensure that the risk management system is working effectively.

本集團致力維持優良的企業管治，以提高營運效率、企業價值及股東回報。董事會負責領導及監督本集團的經營策略及業務發展，並授權執行董事及管理層執行及管理日常業務營運。

同時，董事會對本集團的可持續發展事宜承擔最終責任，負責對可持續發展事宜進行監管，識別及管理環境及社會風險，並授權各營運點落實相關政策及措施。展望未來，本集團將計劃制定長遠可持續發展管理方針及策略，並進一步落實可持續發展管治架構，以確保相關政策及措施有效實施。

### 環境、社會及管治風險管理

董事會承擔維持健全及有效的風險管理及內部監控系統的全部責任，並負責管理財務、營運、合規及風險管理事宜，以及進行持續監察。董事會利用由上而下以及由下而上流程的互補方法管理本集團的風險。董事會負責制定策略目標及監控風險的性質及程度，並授權管理層設計、實施及監察風險管理及內部控制系統及評估集團的風險及其紓緩措施；而各業務部門則負責識別、評估及紓緩風險，並執行風險控制措施，確保將風險控制在可接受水平。在審核委員會的支援下，董事會每年至少一次對風險管理及內部監控系統的有效性進行檢討，確保風險管理系統行之有效。

# GOVERNANCE STRUCTURE

## 管治架構

During the Year, the Group has identified certain environmental and social related risks and developed response and control measures:

本年度，本集團已識別部分與環境、社會機關相關的風險，並制定應對及控制措施：

| ESG Risk<br>環境、社會及管治風險             | Potential Impact<br>潛在影響                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Risk Response and Management Measures<br>風險應對及控制措施                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Health and safety<br/>健康與安全</b> | <p>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 legal risks and liabilities.</p> <p>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。面對嚴謹的安全生產要求，本集團亦須承擔相關法律風險及責任。</p> | <p>The Group is committed to incorporating safety management in 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.</p> <p>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。</p> |

# GOVERNANCE STRUCTURE

## 管治架構

| ESG Risk<br>環境、社會及管治風險                | Potential Impact<br>潛在影響                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Risk Response and Management Measures<br>風險應對及控制措施                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product responsibility</b><br>產品責任 | <p>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.</p> <p>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》(「兩個細則」)及電網要求維持電力的質量及生產水平，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。</p> | <p>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, repairing system vulnerabilities, upgrading security systems, and enhancing the maintenance of heating-related equipment etc.</p> <p>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，修補系統漏洞，升級安防系統，加強供熱相關設備維護等。</p> |

# GOVERNANCE STRUCTURE

## 管治架構

| ESG Risk<br>環境、社會及管治風險  | Potential Impact<br>潛在影響                                                                                                                                                                                                                                                                                                                                                                                                                                    | Risk Response and Management Measures<br>風險應對及控制措施                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emissions</b><br>排放物 | <p>Any occurrence of chemical leakage or failure to discharge production wastewater, waste gas or waste oil in accordance with the national standards will 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.</p> <p>如發生化學品洩漏事故或沒有按照國家規範要求排放生產廢水、廢氣、廢油，將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，影響集團聲譽。</p> | <p>The Group has strengthened the daily management of chemicals and managed the site and rescued personnel in accordance with the emergency plans for chemical leakage.</p> <p>本集團加強化學品的日常管理，並按照洩漏應急預案管理對現場進行處理和對人員進行施救。</p> <p>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.</p> <p>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。</p> |

# GOVERNANCE STRUCTURE

## 管治架構

| ESG Risk<br>環境、社會及管治風險          | Potential Impact<br>潛在影響                                                                                                                                                                                                                                                       | Risk Response and Management Measures<br>風險應對及控制措施                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use of resources</b><br>資源使用 | <p>Any waste of the Group's resources will increase 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 loss of operating income.</p> <p>浪費本集團資源將增加經濟成本。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。</p> | <p>The Group strengthens the publicity and education of employees on energy conservation and emission reduction, and conducts technical analysis to improve energy efficiency and reduce fuel consumption.</p> <p>本集團加強員工節能減排的宣傳教育，並進行技術分析提高能源效益，減少燃料消耗。</p> <p>The Group is committed to ensuring stable gas and water supply, and has formulated emergency plans and conducted regular drills to mitigate the impact of incidents on day-to-day operations.</p> <p>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。</p> |

# GOVERNANCE STRUCTURE

## 管治架構

| ESG Risk<br>環境、社會及管治風險        | Potential Impact<br>潛在影響                                                                                                                                                                                                                                                                                                                            | Risk Response and Management Measures<br>風險應對及控制措施                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Anti-corruption</b><br>反貪污 | <p>The lack of employees' professional ethics, including corruption and fraud in the process of project tendering and bidding and material procurement, will expose the Group to legal and financial risks, such as fines and imprisonment of the relevant employees.</p> <p>員工職業道德缺失，包括在工程招投標、物資採購過程中出現貪污及舞弊的行為，將導致本集團面臨法律及財務風險，如罰款及相關員工監禁等處罰。</p> | <p>The Group strengthens the integrity of its employees, raises their awareness of integrity, and standardises management processes to prevent system loopholes.</p> <p>本集團加強員工廉政建設，提高員工廉潔意識，並規範管理流程，防範制度漏洞。</p> <p>In the meantime, the Group strictly implements the Company's management rules on tendering and bidding, 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. In addition, the Group will conduct regular anti-corruption trainings to provide case studies for the management and employees to enhance their anti-corruption awareness.</p> <p>同時，本集團嚴格執行公司招投標管理規定，在招投標、物資採購工作實踐「公平、公開、公正」的原則，維持透明度及確保符合法規要求。此外，本集團將定期舉辦反貪污培訓，為管理層及員工提供案例學習，加強他們的反貪意識。</p> |

# GOVERNANCE STRUCTURE

## 管治架構

| ESG Risk<br>環境、社會及管治風險  | Potential Impact<br>潛在影響                                                                                                                             | Risk Response and<br>Management Measures<br>風險應對及控制措施                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Employment</b><br>僱傭 | Any dishonest behaviours and negligence of the employees will expose the Group to litigation risk and legal liability.<br>員工失信行為及過失將導致集團面臨訴訟風險及法律責任。 | The Group manages all human resources matters in accordance with the labour laws and the “Human Resources Management Policy” of the Company to ensure compliance with employment regulations.<br>本集團依照勞動法及公司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。 |

# COMMUNICATION WITH STAKEHOLDERS

## 持份者溝通

Maintaining good relationships with stakeholders<sup>4</sup> will be conducive to the achievement of the long-term development goals of the Group. The Group communicates with stakeholders through different channels to understand their opinions and expectations on sustainability issues and continues to improve the Group's business strategies, policies and measures.

與持份者<sup>4</sup>維持良好關係有助本集團實現長遠發展目標。本集團透過多元化溝通渠道了解他們對可持續發展事宜的意見及期望，並持續完善本集團的經營策略、政策及措施。

| Stakeholder Group<br>持份者組別              | Issues of Concern<br>關注議題                                                                                                             | Communication Channels<br>溝通模式                                                                                                                                                                                                                                                                |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Employees</b><br>員工                  | <ul style="list-style-type: none"> <li>Employee safety and health</li> <li>員工安全健康</li> <li>Employment system</li> <li>僱傭制度</li> </ul> | <ul style="list-style-type: none"> <li>Employee Opinion Survey</li> <li>員工意見調查</li> <li>Intranet communication bulletin</li> <li>內聯網通訊公告</li> <li>Company activities</li> <li>公司活動</li> <li>Regular meetings and emails</li> <li>定期會議及電郵</li> <li>Internal trainings</li> <li>內部培訓</li> </ul> |
| <b>Shareholders/Investors</b><br>股東／投資者 | <ul style="list-style-type: none"> <li>Company profitability</li> <li>公司盈利</li> <li>Corporate development</li> <li>公司發展</li> </ul>    | <ul style="list-style-type: none"> <li>Annual general meeting</li> <li>股東週年大會</li> <li>Company website</li> <li>公司網站</li> <li>Announcements, annual and interim reports</li> <li>公告、年度及中期報告</li> <li>Investor meetings</li> <li>投資者會面</li> </ul>                                              |

<sup>4</sup> "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, 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.

<sup>4</sup> 「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。

# COMMUNICATION WITH STAKEHOLDERS

## 持份者溝通

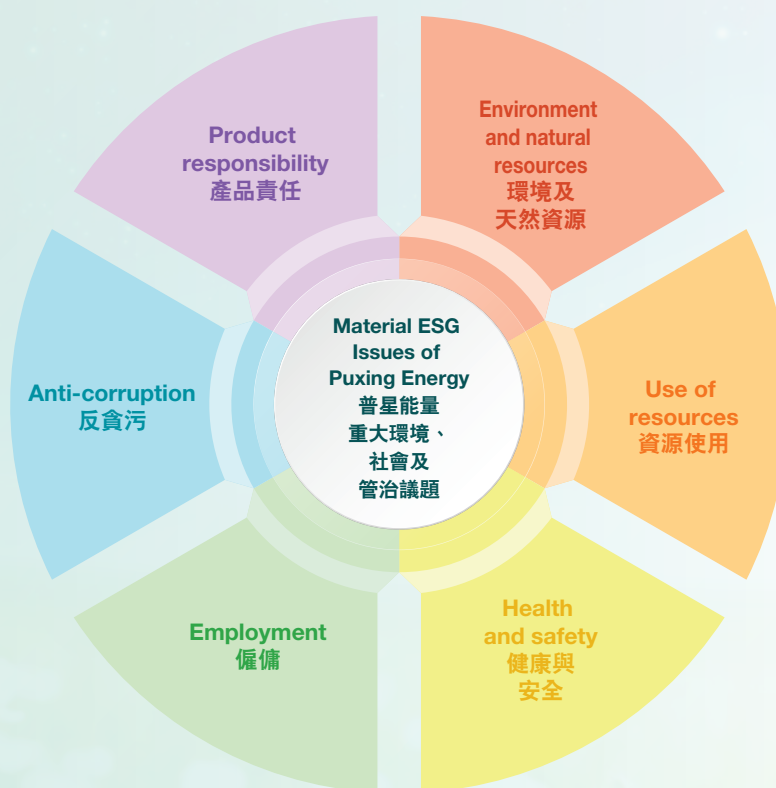
| Stakeholder Group<br>持份者組別       | Issues of Concern<br>關注議題                                                                                                                                                                        | Communication Channels<br>溝通模式                                                                                                                                                               |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Customers</b><br>客戶           | <ul style="list-style-type: none"> <li>• Stable power supply</li> <li>• 供電穩定</li> <li>• Safety of electricity supply</li> <li>• 供電安全</li> <li>• Stable heating supply</li> <li>• 供熱穩定</li> </ul> | <ul style="list-style-type: none"> <li>• Regular visits</li> <li>• 定期走訪</li> <li>• Phone calls</li> <li>• 電話聯絡</li> <li>• Technical support</li> <li>• 技術支持</li> </ul>                       |
| <b>Regulatory bodies</b><br>監管機構 | <ul style="list-style-type: none"> <li>• Industry development</li> <li>• 行業發展</li> <li>• Industry policy</li> <li>• 行業政策</li> </ul>                                                              | <ul style="list-style-type: none"> <li>• Government and industry conferences</li> <li>• 政府與行業會議</li> </ul>                                                                                   |
| <b>Suppliers</b><br>供應商          | <ul style="list-style-type: none"> <li>• Fuel quality</li> <li>• 燃料品質</li> </ul>                                                                                                                 | <ul style="list-style-type: none"> <li>• Regular on-site visits</li> <li>• 定期實地考察</li> <li>• Supplier meetings</li> <li>• 供應商會議</li> <li>• Review and evaluation</li> <li>• 審核及評估</li> </ul> |
| <b>Community</b><br>社區           | <ul style="list-style-type: none"> <li>• Community development</li> <li>• 社區發展</li> </ul>                                                                                                        | <ul style="list-style-type: none"> <li>• Community investment</li> <li>• 社區投資項目</li> <li>• Volunteer charity activities</li> <li>• 義工公益活動</li> </ul>                                         |

# COMMUNICATION WITH STAKEHOLDERS

## 持份者溝通

### MATERIAL ESG ISSUES

In addition to the above-mentioned communication channels, the Group continued to engage an external consultant to conduct a questionnaire with the Board to identify ESG issues that have significant impact on its business operations. Based on the results of the questionnaire, the Group has identified six material issues (as shown in the figure below) as focused subject areas of this Report and the basis for future strategy development.



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

### 重要環境、社會及管治議題

除上述溝通模式，本集團亦繼續透過外部顧問與董事會進行了一次問卷調查，識別對業務營運有重大影響的環境、社會及管治議題。根據問卷調查結果釐定六項重要議題(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。

展望未來，本集團將繼續加強與持份者溝通，並透過不同溝通活動如：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，以完善本集團的可持續發展政策及措施。

# ENVIRONMENTAL PROTECTION

## 環境保護

The Group fully recognises that natural gas power generation has varying impacts on the environment, and is therefore committed to pursuing environmental practices in a responsible manner, as well as reducing negative impacts on natural environment. Each Operating Station of the Group has established various systems and policies on resource management and emission management, including: “Management System on Energy and Resources”, “Management and Supervision System on Environmental Protection” and “Management Rules on Greenhouse Gas Emissions”, according to its own needs.

### ENVIRONMENT AND NATURAL RESOURCES

The Group's power generating units are mainly 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, there is likely to be dangers against and impacts on the surrounding areas and communities, including fires and explosions, which may affect the adjacent soil and water resources.

To this end, the Group has authorised the Safety Production Committee to implement relevant safety measures for production activities, and appointed natural gas suppliers to conduct regular inspection and maintenance of gas supply pipelines to ensure that the gas supply complies with safety standards. At the same time, each Operation Station has formulated “Emergency Plans for Natural Gas Leak from Equipment” or “Emergency Plans for Environmental Pollution Incidents”, and has authorised the leading emergency group and the emergency office to oversee and coordinate the emergency management of natural gas leakage incidents. 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.

本集團深明天然氣發電過程對環境造成不同影響，因此致力以負責任的態度實踐保護環境，減少對自然環境的負面影響。本集團各營運點根據自身需要，訂立各種有關資源管理及排放物管理的制度及政策，包括：《能源、資源管理制度》、《環境保護管理監督制度》及《溫室氣體排放管理規定》等。

### 環境及天然資源

本集團的發電機組主要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，將有機會對周邊環境及社區產生危險及影響，包括火災及爆炸，波及鄰近水土資源。

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，確保供氣過程符合安全標準。同時，各營運點已制定《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》，並授權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。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

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.

The Group is aware of the different immediate or potential operational risks and impacts of climate change on its business operations. In order to manage the related risks more effectively, the Group will consider formulating climate change policies and measures in the future. When formulating business strategies, climate change will be taken into account so as to enhance the Group's ability to cope with and recover from climate change and extreme weather.

### USE OF RESOURCES

The Group is committed to the effective use of various resources in its operations. Each Operation Station has formulated a number of policies on environmental protection and energy and water conservation, including the "Management System on Energy and Resources", "Management System on Water Conservation" and "Management System on Energy Conservation", with various measures adopted to enhance the efficiency of resource utilisation.

#### Energy Consumption

The Group's energy consumption mainly comes from the electricity infrastructure and production process. 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, with an energy saving technical management system in place at each Operation Station. The Group formulates various policies and measures for energy saving and consumption reduction in terms of technical aspects, economic burden, as well as environmental and social factors in accordance with the "Supervisory and Administrative Standards for Energy-Saving Technology".

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。

本集團深知氣候變化對業務營運帶來不同即時性或潛在的營運風險及影響。為了更有效管理相關風險，本集團於未來將考慮擬定氣候變化政策及措施，並將氣候變化納入制定業務策略的過程當中，提升本集團在氣候變化及極端天氣的應對及復原能力。

### 資源使用

本集團致力在營運過程中有效運用各種資源。各營運點已制定多項環保節能節水的政策，包括《能源、資源管理制度》、《節水管理制度》及《節能管理制度》，並採取不同措施，以提升資源使用效益。

#### 能源消耗

本集團的能源消耗主要來自電力基建及生產過程。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，並於各營運點設有節能技術管理系統。本集團根據《節能技術監督管理標準》，從技術層面、經濟負擔、以及環境與社會等不同因素制定各項節能降耗政策及措施。

## ENVIRONMENTAL PROTECTION

### 環境保護

Among them, certain power plants, such as Jingxing Power Plant and Anji Power Plant, have established the “Management System on Energy Conservation” and authorised the leading energy conservation group to perform daily energy saving tasks, including unit scheduling, inspection and maintenance of production equipment according to the grid dispatch requirements, as well as regular evaluation. Anji Power Plant, Bluesky Power Plant and Quzhou Power Plant change the status of their generation units to “heat standby” mode when the units are out of service to reduce the energy consumption of the main substation running at no load. The power plants also use high standby transformer operation to provide power to the power plants.

At the same time, Deneng Power Plant also implemented various energy saving measures in accordance with the “Management System on Energy and Resources”, including improving energy efficiency of energy-consuming equipment, developing energy-saving technologies and equipment, and setting energy-saving performance targets. Deneng Power Plant and Quzhou Power Plant have installed light-sensitive switches, and have also set the hours of lighting and fans together with Anji Power Plant. Jingxing Power Plant and Anji Power Plant replaced their lighting systems with light-emitting diode (LED) energy-saving bulbs.

The Operation Stations also 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 facilities for photovoltaic power generation.

其中，部分電廠如京興電廠及安吉電廠等已設立《節能管理制度》，並授權節能工作領導小組執行日常節能工作，包括根據電網調度需求進行機組調度、檢查及維修生產設備，並定期進行評估。安吉電廠、藍天電廠及衢州電廠在發電機組停運時改動機組狀態至「熱備用」模式，以減少主變電設備空載運行的能耗，電廠亦採用高備變壓器運行提供廠內用電。

同時，德能電廠亦按照《能源、資源管理制度》落實各項節能措施，包括提升耗能設備能源效益、研發節能技術及設備，並訂立節能績效指標。德能電廠及衢州電廠加裝光感開關，亦與安吉電廠制定使用照明及風扇的時間。京興電廠及安吉電廠將公司的照明系統統一更換為發光二極管節能燈泡。

各營運點亦進行餘熱發電，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設施屋頂加裝太陽能板進行光伏發電。

## ENVIRONMENTAL PROTECTION

### 環境保護

To raise employees' awareness of energy conservation, Anji Power Plant has established an "Energy-saving Assessment Reward and Punishment System" and "Energy-saving and Consumption-reduction Target Responsibility System" to encourage employees to pursue energy-saving practices through rewards and recognition. Each Operation Station also provides regular training for employees to ensure that they are fully aware of energy saving and environmental protection.

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. However, in view of the increasing demand for peak electricity in Zhejiang Province, the overall energy consumption for the Year showed a substantial upward trend, with a substantial increase of approximately 288% in electricity generation demand for the Year as compared to last year. This resulted in an increase of approximately 249% in natural gas consumption as compared to last year. The Group consumed a total of 16,637 MWh of purchased electricity and self-generated electricity (including self-generated electricity from photovoltaic) during the Year.

Jingxing Power Plant, Anji Power Plant and Quzhou Power Plant of the Group have photovoltaic power generation units, which generated a total of 771 MWh of electricity during the Year. Among them, the electricity generated from photovoltaic power at Jingxing Power Plant was used for internal use as well as for external sales, while the electricity generated at Anji Power Plant and Quzhou Power Plant were used for internal use only. The electricity generated from photovoltaic power for internal use is also equivalent to the offsetting of conventional energy consumption.

為提高員工節能意識，安吉電廠設有「節能考核獎懲制度」及「節能降耗目標責任制」，透過獎勵及表彰鼓勵員工實踐節約能源。各營運點亦定期為員工提供培訓，確保員工對節能環保有充分認識。

本集團各營運點於本年度繼續配合浙江省政府的電網頂峰需求安排發電機組發電。然而，因應浙江省對調峰用電需求增加，本年度的能源消耗整體呈現大量上升的趨勢，本年度發電量需求較去年大幅增加約288%，使天然氣消耗量亦較去年增加約249%。本集團於本年度共消耗外購電力和自產電力（包括光伏發電自用電量）16,637兆瓦時。

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，於本年度共產生電力771兆瓦時。當中京興電廠光伏發電的電力用於內部使用亦會對外銷售；而安吉電廠及衢州電廠則用於內部使用。光伏發電電力內部使用部分亦相當於抵銷傳統能源消耗。

# ENVIRONMENTAL PROTECTION

## 環境保護

| Energy classification <sup>5</sup><br>能源分類 <sup>5</sup> | 2020<br>2020年  | 2019<br>2019年 | Unit<br>單位                                               |
|---------------------------------------------------------|----------------|---------------|----------------------------------------------------------|
| <b>Direct energy</b><br><b>直接能源</b>                     |                |               |                                                          |
| Gasoline<br>汽油                                          | 112            | 115           | MWh<br>兆瓦時                                               |
| Natural gas<br>天然氣                                      | 928,581        | 265,764       | MWh<br>兆瓦時                                               |
| Acetylene<br>乙炔                                         | 0.05           | 0.1           | MWh<br>兆瓦時                                               |
| Sold electricity (natural gas)<br>外售電力(天然氣)             | (315,521)      | (81,733)      | MWh<br>兆瓦時                                               |
| Sold steam (thermodynamics)<br>外售蒸汽(熱力)                 | (92,385)       | (82,536)      | MWh<br>兆瓦時                                               |
| <b>Indirect energy</b><br><b>間接能源</b>                   |                |               |                                                          |
| Purchased electricity<br>外購電力                           | 5,074          | 4,560         | MWh<br>兆瓦時                                               |
| <b>Total energy consumption</b><br><b>能源總耗量</b>         | <b>525,861</b> | 106,170       | MWh<br>兆瓦時                                               |
| <b>Energy intensity</b><br><b>能源密度</b>                  | <b>1.61</b>    | 1.27          | MWh/MWh of<br>electricity<br>generated<br>兆瓦時／<br>兆瓦時發電量 |

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」。

<sup>5</sup> The 2019 energy consumption is reclassified by direct and indirect energy sources. Direct energy includes non-renewable fuels, renewable fuels, self-generated electricity, heating, cooling and steam, as well as electricity, heating, air conditioning and steam sold; indirect energy includes purchased electricity, heating, air conditioning and steam. Photovoltaic generation is disclosed separately.

<sup>5</sup> 2019年能源消耗量按直接能源和間接能源重新劃分能源消耗量。直接能源包括不可再生燃料、可再生燃料、自行的發電、製暖、製冷及蒸汽和出售的電力、暖氣、冷氣及蒸汽；間接能源包括外購電力、暖氣、冷氣及蒸汽。光伏發電量單獨披露。

# 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 of the Group has formulated a “Management System on Water Conservation” or “Management System on Energy and Resources”. 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.

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.

A total of 765,087 cubic meters (m<sup>3</sup>) of water was consumed by the Operating Stations during the Year, representing an increase of 86% as compared to last year. The water consumption intensity was approximately 13.19m<sup>3</sup> per RMB10,000 on a revenue basis, representing a decrease of 6% as compared to last year.

### 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。本集團各營運點制定《節水管理制度》或《能源、資源管理制度》。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。

各營運點亦採取不同節水措施實踐減少浪費用水及提升重用率，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。

本年度各營運點共消耗用水765,087立方米，較去年增加86%。而耗水密度按收益計算約13.19立方米每萬元人民幣，較去年減少6%。

# ENVIRONMENTAL PROTECTION

## 環境保護

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 Xitaoxi, 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.

### Paper Consumption

The Group has implemented paperless offices at all of its Operating Stations and has 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 generate waste gas emissions, greenhouse gas emissions, wastewater and waste from its production processes. Each Operating Station 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)”, with an aim to ensure effective emission management and reduce negative environmental impacts caused by productions and operations.

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、滸溪與西苔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出具取水許可證。本集團在求取水源上無任何問題。

### 紙張使用

本集團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、將打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文件、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產生廢氣排放、溫室氣體排放、廢水及廢棄物。各營運點已分別制定《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

### Greenhouse Gas Emissions Management

Greenhouse gas emissions from the Group's Operating Stations mainly come from fuel combustion of stationary equipment, physical or chemical processes, welding and packaging of equipment, and mobile combustion from transportation. For this purpose, the Group has formulated the "Management Rules on Greenhouse Gas Emissions" to regulate the management of greenhouse gas emissions.

For effective management of greenhouse gas emissions, the Group engaged a professional consultant to conduct a carbon assessment to quantify the greenhouse gas emissions generated throughout its operations. The quantification was based on 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.

Environmental data regarding Quzhou Power Plant from October to December 2020 has been included to this Report following the acquisition of Quzhou Power Plant completed by the Group on 30 September 2020. During the Year, the total greenhouse gas emissions generated by the Operating Stations was 188,887 tonnes of CO<sub>2</sub>e, representing an increase of 237% over the total carbon emissions last year (56,041 tonnes of CO<sub>2</sub>e). However, the greenhouse gas intensity of 0.58 tonne of CO<sub>2</sub>e per megawatt-hour (MWh) of electricity generated at the Operating Stations decreased by approximately 12% compared to last year (0.66 tonne of CO<sub>2</sub>e per MWh of electricity generated), mainly due to an increase in both natural gas consumption and electricity generation at the Operating Stations. This indicated an improvement in the efficiency of natural gas generation at each Operating Station. Greenhouse gas emissions from natural gas combustion for electricity and heat generation at the Operating Stations accounted for 98.4% of the total greenhouse gas emissions, while the remaining greenhouse gas emissions accounted for 1.6% of the total carbon emissions.

### 溫室氣體排放管理

本集團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、設備的接縫及包裝過程所洩露的無組織排放，以及搭乘交通工具的移動燃燒。為此，本集團已制定《溫室氣體排放管理規定》，對溫室氣體排放實施規範管理。

為了有效管理溫室氣體排放，本集團已委託專業顧問進行碳評估，量化營運過程所產生的溫室氣體排放。量化的過程參考中國國家標準《溫室氣體排放核算與報告要求第1部分：發電企業》以及國際標準如ISO 14064-1及溫室氣體盤查議定書等。

應本集團於2020年9月30日完成衢州電廠收購，本報告添加了衢州電廠2020年10月至12月的環境數據。本年度，各營運點共產生的溫室氣體排放為188,887公噸二氧化碳當量，較去年碳排放總量(56,041公噸二氧化碳當量)增加237%。然而，各營運點溫室氣體密度為0.58公噸二氧化碳當量／兆瓦時發電量，較去年(0.66公噸二氧化碳當量／兆瓦時發電量)下降約12%，主要原因是在天然氣耗量及各營運點發電量同時增加，側面體現出各營運點的天然氣發電效率有所提高。各營運點用於發電和發熱燃燒天然氣所產生的溫室氣體排放佔溫室氣體總排放量的98.4%，其餘溫室氣體排放佔總碳排放的1.6%。

# ENVIRONMENTAL PROTECTION

## 環境保護

| Greenhouse gas emissions<br>溫室氣體排放                                                                           | Emissions<br>排放量 | Unit<br>單位                                                                                          |
|--------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                                              | 2020<br>2020年    | 2019<br>2019年                                                                                       |
| Scope 1: Direct greenhouse gas emissions<br>範圍1：直接溫室氣體排放                                                     | 185,792          | 53,258 tonne of CO <sub>2</sub> e<br>公噸二氧化碳當量                                                       |
| Scope 2: Indirect greenhouse gas emissions from energy<br>範圍2：能源間接溫室氣體排放                                     | 3,095            | 2,782 tonne of CO <sub>2</sub> e<br>公噸二氧化碳當量                                                        |
| Scope 3: Other indirect greenhouse gas emissions<br>範圍3：其他間接溫室氣體排放                                           | 0                | 0.6 <sup>6</sup> tonne of CO <sub>2</sub> e<br>公噸二氧化碳當量                                             |
| <b>Total greenhouse gas emissions<br/>溫室氣體總排放</b>                                                            | <b>188,887</b>   | <b>56,041 tonne of CO<sub>2</sub>e<br/>公噸二氧化碳當量</b>                                                 |
| <b>Greenhouse gas emissions intensity (by power generation<sup>7</sup>)<br/>溫室氣體排放密度(以發電量<sup>7</sup>計算)</b> | <b>0.58</b>      | <b>0.66 tonne of CO<sub>2</sub>e/<br/>MWh of electricity<br/>generated<br/>公噸二氧化碳當量/<br/>兆瓦時發電量</b> |

Scope 1: includes the greenhouse gas emissions generated from fuel combustion of stationary sources and mobile sources, and greenhouse gas arising from Wastewater Anaerobic Bio-treatment<sup>8</sup> and the use of refrigerants and fire extinguishing agents<sup>9</sup>.

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.

範圍1：包括固定源及移動源的燃料燃燒、廢水厭氧處理<sup>8</sup>和因使用製冷劑與滅火劑<sup>9</sup>釋放所造成的溫室氣體排放。

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。

<sup>6</sup> Only greenhouse gas emissions from flights due to business travel in 2019 at Jingxing Power Plant were included.

<sup>7</sup> Natural gas generation and photovoltaic power generation were included.

<sup>8</sup> There were no greenhouse gas emissions from anaerobic treatment of wastewater in 2020. Only methane emissions from anaerobic treatment at Jingxing Power Plant in 2019 and 2018 were included.

<sup>9</sup> Emissions during 2020 included emissions from refrigerant type R-22 used at Jingxing Power Plant and Deneng Power Plant; emissions during 2019 only included emissions from R-22 used at Anji Power Plant; emissions during 2018 included emissions from refrigerant types R-12 and R-22 used at Jingxing Power Plant, Anji Power Plant and Deneng Power Plant; both refrigerant types are not included in the six greenhouse gases covered by the "Kyoto Protocol". This Report also includes their emissions in the carbon assessment in order to provide a true and fair picture of greenhouse gas-related information.

<sup>6</sup> 只包括2019年京興電廠因商務旅行搭乘飛機的溫室氣體排放。

<sup>7</sup> 包括天然氣發電量和太陽能發電量。

<sup>8</sup> 2020年沒有因污水厭氧處理產生的溫室氣體排放。只包括2019年和2018年京興電廠污水厭氧處理產生的甲烷排放。

<sup>9</sup> 2020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；2019年只包括安吉電廠使用R-22排放；2018年包括京興電廠、安吉電廠及德能電廠所使用的製冷劑種類R-12及R-22排放；兩種製冷劑均不包含於「京都議定書」所涵蓋的六種溫室氣體中。本報告亦將其排放量包括在碳評估中，以提供真實和公平的溫室氣體相關信息。

# ENVIRONMENTAL PROTECTION

## 環境保護

In line with the national goal of carbon neutrality by 2060, the Group is actively planning its long-term carbon reduction strategies. 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.

### Air Emissions

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. The air pollutant emissions from combustion of natural gas in gas-fired boilers accounted for 99.9% of the total air emissions.

Each Operating Station has formulated various policies, including the “Environmental Protection Management Standards”, “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. During the Year, Jingxing Power Plant has revised the “Management and Supervision System on Environmental Protection”, and established the “Technical Specification for Application and Issuance of Emission Permit for Thermal Power Industry” with Bluesky Power Plant to regulate the waste gas emission process. 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.

為配合國家爭取於2060年前實現碳中和目標，本集團積極計劃長遠減碳策略。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。

### 廢氣排放

作為天然氣發電企業，本集團於營運過程產生不同空氣污染物，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。由燃氣鍋爐產生的空氣污染物約佔總空氣污染物總排放的99.9%。

各營運點均已制定《環境保護管理標準》、《三廢環保管理制度》或《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。京興電廠於年內修編《環境保護管理監督制度》，並與藍天電廠設有《火電行業排污許可證申請與核發技術規範》，規範廢氣排放流程。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。

# 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 companies 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 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 Chinese national pollutant emission standards (i.e., 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, NO<sub>x</sub>, SO<sub>x</sub> and RSP increased by 161%, 211% and 49% respectively. Given that the operation model of the power plants is based on the grid dispatching arrangement, which primarily generate power at their peak hours accompanied by ongoing maintenance, the significant increase in air emissions for the Year was due to the significant increase in power generation at each Operating Station to meet the peak demand of the grid during the Year.

### 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”.

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第三方監測公司對煙氣進行監測，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亦設有《煙氣(廢水)在線監測系統管理標準》，規範廢氣監測流程，確保符合中國國家污染物排放標準(即：《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，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分別增加161%、211%和49%。鑑於電廠營運模式是根據電網調度安排，以頂峰發電為主，保養發電為輔，本年度廢氣排放量大幅增加是由於年內各營運點在滿足電網頂峰需求的情況下令發電量大幅上升所致。

### 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。

# ENVIRONMENTAL PROTECTION

## 環境保護

| Type of Waste<br>廢棄物類別                                     | Waste<br>廢棄物                                                                                                                                                                               | Treatment<br>處理方法                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recyclable waste</b><br>可回收廢棄物                          | Waste packaging, waste paper, scrap metals, and waste oil<br>廢包裝物、廢紙、廢金屬、廢油料                                                                                                               | <ul style="list-style-type: none"> <li>Waste packaging materials, waste paper and scrap metals are sorted for collection, and recyclers are appointed for recycling;</li> <li>分類收集廢包裝材料、廢紙及廢金屬，並委託回收商進行回收；</li> <li>Waste oil is collected and stored separately before appointing recyclers for recycling.</li> <li>收集廢油料及隔離存放，並委託回收商進行回收。</li> </ul>                                                                                                                                     |
| <b>Non-recyclable and non-hazardous waste</b><br>不可回收無害廢棄物 | Domestic waste, and construction waste<br>生活垃圾、建築垃圾                                                                                                                                        | <ul style="list-style-type: none"> <li>Domestic waste, after sorting, is collected and transported by waste disposal providers on a daily basis;</li> <li>生活垃圾經分類後，每天由廢棄物處理商收集及運走；</li> <li>Approved waste collectors are appointed to collect construction waste on a regular basis.</li> <li>委託認可廢料回收商定期收集建築垃圾。</li> </ul>                                                                                                                                                               |
| <b>Non-recyclable hazardous waste</b><br>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<br>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、廢墨盒 | <ul style="list-style-type: none"> <li>Waste motor oil and waste mineral oil are stored separately before appointing approved hazardous waste processing providers for collection on a regular basis;</li> <li>將廢機油及廢礦物油進行隔離存放，並委託認可的危廢處理商進行收集；</li> <li>Non-recyclable hazardous waste is stored separately after classification before appointing approved hazardous waste processing providers for collection on a regular basis.</li> <li>將不可回收有害廢棄物分類存放，並委託認可的危廢處理商定期進行收集。</li> </ul> |

# ENVIRONMENTAL PROTECTION

## 環境保護

In order to ensure the safety of waste treatment, the Group not only separates waste for storage, but also places fire-fighting equipment and anti-diffusion facilities at waste dumps. In addition, fire safety accesses are established inside the sites to reduce the safety risk caused by the leakage of hazardous materials or fire. 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 1.0 tonne of hazardous waste was generated by the Operating Stations, mainly consisting of waste mineral oil and mineral oil-containing waste. 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 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 0.5 tonne 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

The Group generates production wastewater and domestic wastewater during production activities. In order to effectively reduce the impact of production wastewater on the surrounding environment, the Group has formulated the “Three Wastes Environmental Protection Management System” and “Management Standards on Online Monitoring Systems for Smoke and Fumes (Wastewater)” in accordance with the requirements of the “Integrated Wastewater Discharge Standards”, under which, various types of wastewater is collected, reused, or discharged after filtration. Wastewater collection systems are installed at each Operating Station to collect wastewater generated during the production and in the offices of these power plants. Treated and filtered wastewater in the power plant’s filtration system is safely discharged through an outfall that complies with local government regulations.

為確保廢棄物處理安全，本集團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安全通道，減低因危險品洩漏或火災而所帶來的安全風險。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1.0公噸有害廢棄物，主要包括廢礦物油及含礦物油廢物。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57.6公噸的無害廢棄物，主要包括：包括生活垃圾、廢紙、廢塑料、廢金屬、廚餘，以及淨水器產生的淤泥。垃圾處置方面，本集團於年內將0.5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

本集團在生產過程中產生生產廢水及生活污水。為了有效減輕生產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《煙氣(廢水)在線監測系統管理標準》，將各種廢水分類收集、重用或過濾處理排出。各營運點設有廢水收集系統，收集於生產過程及電廠辦公室內所產生的廢水。所有廢水需經過電廠內的過濾系統進行處理，並在過濾後從符合當地政府法規的排污口安全排出。

## ENVIRONMENTAL PROTECTION

### 環境保護

In addition, wastewater reuse measures are in place at each Operating Station, such as treated wastewater to be reused for washing, flushing, watering, boiler hydration, and filter backwashing. At the same time, Bluesky Power Plant has installed underground domestic sewage treatment equipment to enhance the efficiency of sewage treatment. Industrial wastewater is also used for flushing toilets of the lavatories at each Operating Station. In order to increase the reuse rate of wastewater, each Operating Station also regularly replaces and cleans the reverse osmosis membranes in the wastewater filters. Each Operating Station also prepares regular wastewater testing reports to ensure that wastewater discharge complies with the “Water and Wastewater Quality Determination Methods” of the State Environmental Protection Administration.

A total of 27,154m<sup>3</sup> wastewater was reused by the Operating Stations for washing, flushing, watering, boiler hydration, and filter backwashing during the Year.

此外，各營運點設有廢水回用措施，例如將已處理的廢水重用至洗車、沖廁、澆花、鍋爐補水及清洗過濾器。同時，藍天電廠已設有地理式生活污水處理設備加強處理污水效能。各營運點的洗手間亦使用工業廢水作為抽水馬桶的水源。為提高廢水回用的比率，各營運點亦定期更換及清洗廢水過濾器的反滲透膜。各營運點亦會定期進行廢水檢測報告，確保排出的廢水符合國家環保總局的《水和廢水檢測分析方法》。

本年度，各營運點已重用27,154立方米廢水，主要用於洗車、沖廁、澆花、鍋爐補水、反洗過濾器。

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