



中油燃氣集團有限公司

CHINA OIL AND GAS GROUP LIMITED

(Incorporated in Bermuda with Limited Liability)

(於百慕達註冊成立之有限公司)

Stock Code: 603

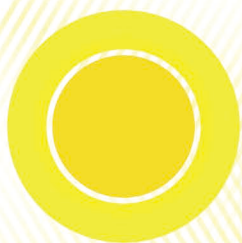
股份代號: 603



2021

Environmental, Social
and Governance Report

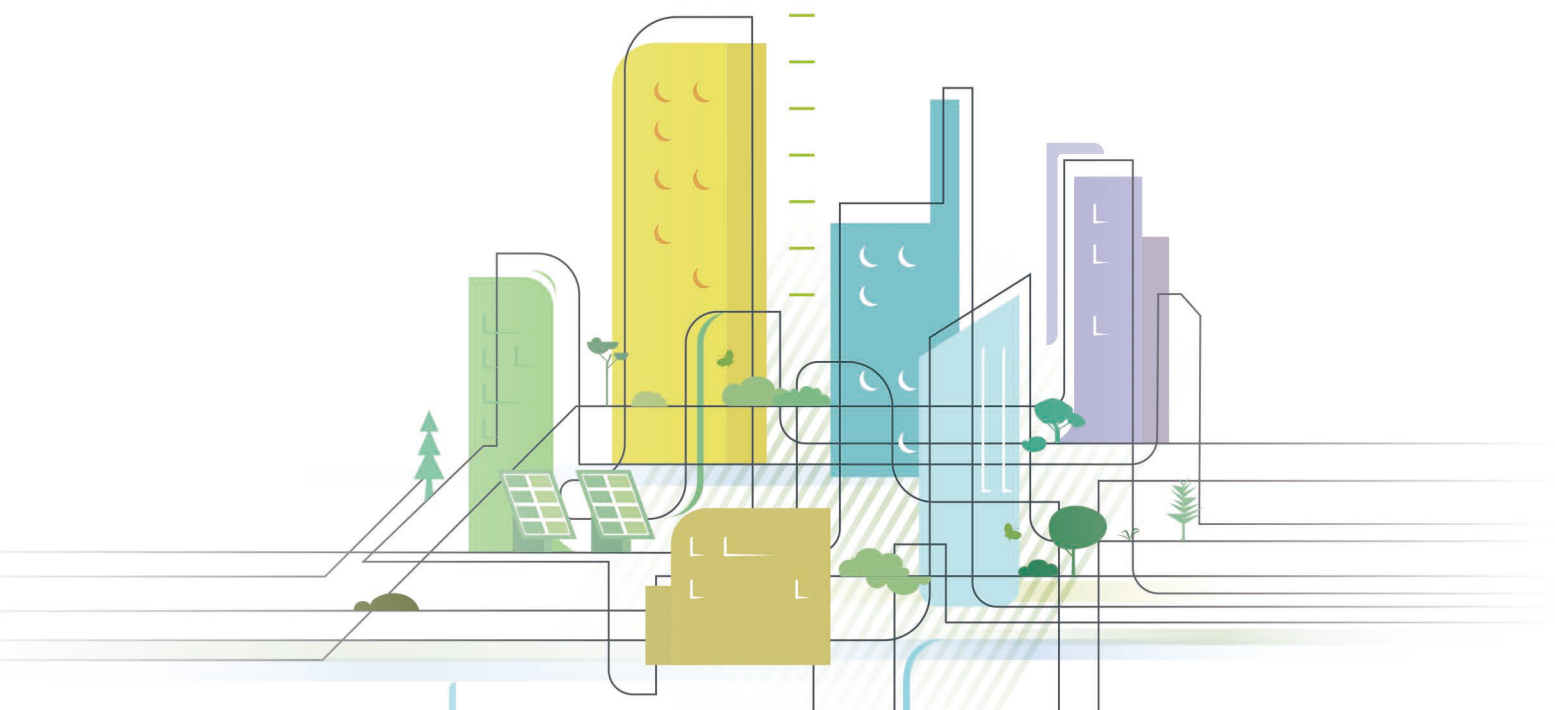
環境、社會及管治報告



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CHAIRMAN'S STATEMENT

主席致辭



Dear Stakeholders,

Welcome to the Environmental, Social and Governance Report ("ESG Report") of China Oil and Gas Group Limited (the "Company") (Stock Code: 603) and its subsidiaries (collectively referred to the "Group" or "We") for the year from 1 January 2021 to 31 December 2021 (the "year" or "2021")

As a clean energy company, the Group shoulders the mission of "Develop Clean Energy, Create Better Life" and has been promoting the use of natural gas since our establishment.

As at 31 December 2021, the Group has obtained 71 concession rights and completed approximately 16,950 km natural gas pipelines in 16 provinces, cities and autonomous regions in the People's Republic of China (the "PRC"). The Group supplies economical and clean natural gas to 1,765,241 residential users and 15,602 industrial and commercial users.

各位尊敬的利益相關方：

歡迎閱讀中油燃氣集團有限公司(「公司」)(股份代號：603)及其附屬公司(統稱為「集團」或「我們」)於二零二一年一月一日至二零二一年十二月三十一日(「本年度」或「二零二一年」)的環境、社會及管治報告(「ESG報告」)。

集團作為清潔能源公司，肩負著「發展清潔能源事業，共創美好生活」的使命，自成立以來不斷地推動天然氣的廣泛應用。

截至二零二一年十二月三十一日，集團已在中華人民共和國(「中國」)16個省、市及自治區擁有71項燃氣特許經營權，投資建成天然氣管道約16,950公里。集團為1,765,241戶居民用戶及15,602戶工商業用戶供應經濟、潔淨的天然氣。

二零二一年年度環境、社會及管治報告

(continued) (續)

For the year, the Group's total sales volume of natural gas was 4,852 million cubic meters, which is equivalent to the reduction of approximately 6.45 million tonnes of coal used, and this contributed to the reduction of carbon dioxide emission by approximately 23.66 million tonnes. The Group continues to work together and makes contributions to the transformation of energy structure of the PRC and the reduction of carbon emissions and smog pollution.

Our emphasis on the safety of the gas production and operation is second to none, and we strictly regulate every detail of the production process. During the year, no safety production liability accidents or casualties were recorded in the affiliated companies of the Group and safety management personnel's certificate rate is 100%.

To prevent and reduce the occurrence of safety incidents, the Group has established a comprehensive management system with clear accountability based on the laws and regulations promulgated by the PRC, such as the Guideline of China Occupational Safety and Health Management System (GB/T33000), the Safety Technical Specification for Operation, Maintenance and Rush-repair of City Gas Facilities and other standards. The Safety Supervision Department is responsible for supervising various safety activities and emergency drills, and safety audits are organised twice a year for each of the Group's subsidiaries. No severe safety accidents of general (level B) or higher severity were recorded from any subsidiaries of the Group in the year. Furthermore, the Group continues to optimise the information management platform, striving to build a highly efficient and intelligent enterprise to supply clean energy stably and reliably.

The Group firmly believes that human resources are the most valuable assets and the accomplishment of the Group today are attributed to the joint effort of our talents. To this end, the Group dedicates to establishing a learning enterprise. The Group invites senior management, industry experts, professional lecturers and internal trainers to impart skills and knowledge to employees, fostering talents and paving the way for business success.

In addition to providing employees with opportunities for continuous improvement to enhance their overall quality and professional skills, the Group also strives to create a harmonious and encouraging cultural atmosphere to help employees to have a strong work-life balance. The Group also offers reasonable salaries, well-rounded benefits and development opportunities. The Group strictly abides by the laws and regulations relating to labour in all locations of business and has established an excellent employment management system. The Group has also formulated an annual training plan and organises various activities to enrich the lives of employees and to grow together with employees.

於本年度，集團總天然氣銷售量為4,852百萬立方米，相當於減少使用煤炭約6.45百萬噸，有助減少排放約23.66百萬噸二氧化碳。集團上下齊心，為我國能源結構低碳轉型及減碳降霾持續作出貢獻。

自成立以來，集團高度重視燃氣生產運營安全，並嚴格把控生產經營過程中的每一個環節。於本年度內，集團各所屬公司概無錄得任何生產安全責任事故或人員傷亡，安全管理人員持證率為100%。

為防止及減少安全事故的發生，集團依據國家頒佈的《企業安全生產標準化基本規範》(GB/T33000)及《城鎮燃氣設施運行、維護和搶修安全技術規程》等標準制定了全面細緻、責任明確的安全管理辦法，並委派安全監察部負責督促各所屬公司組織各項安全活動和應急演練，以及每年組織兩次全覆蓋性的安全檢查。於本年度，各所屬公司概無錄得任何一般(B級)或以上安全生產責任事故。同時，集團持續優化信息管理平台，致力打造一個全新的高效運營智能化企業，以確保集團能夠穩定可靠地供應清潔能源。

集團堅信員工是企業最大的財富，集團能發展成如今的規模皆有賴團隊的共同努力。為此，集團著力創建學習型企業，邀請集團高管、行業專家、專業講師、企業內訓師為員工傳授技能和知識，培養人才，為集團的事業發展奠定基礎。

除了為員工提供持續進修的機會以提升員工的綜合素質和職業技能外，集團亦注重營造和諧向上的文化氛圍，努力幫助員工平衡工作與生活，並提供合理的薪酬、完善的福利和發展機會。集團認真遵守業務所在地有關勞工的法律法規，建立了良好的用工管理制度，並且每年制定年度培訓計劃及組織各項活動來豐富員工的生活，實現員工和企業共同發展。

Environmental, Social and Governance Report 2021

(continued) (續)

In respect of the continuous development of the economy of the PRC, a safe, stable, clean and efficient energy system plays a pivotal role in the path of the country's sustainable development. As a clean energy company, the Group will persistently innovate and make energy-related technological breakthroughs with international competitiveness, satisfy the needs of economic development and sustain the energy safety of the PRC.

In the future, the Group will continue to liaise closely with stakeholders, understand and respond to the concerns of all parties, make efforts for business development and sustainable development and work hard to become an influential clean energy company.

Xu Tie-liang
Chairman

隨著我國經濟持續發展，安全穩定及潔淨高效的能源體系將會給國家的可持續發展帶來舉足輕重的作用。作為一家清潔能源公司，集團將會努力不懈地創新與突破具有國際競爭力的能源相關技術，滿足國家經濟發展需求並支撐國家能源安全。

未來，集團將會更加注重可持續發展和持續進步，繼續深化與利益相關方的溝通，持續瞭解和回應各方的關注事項，努力成為一家有影響力的清潔能源公司。

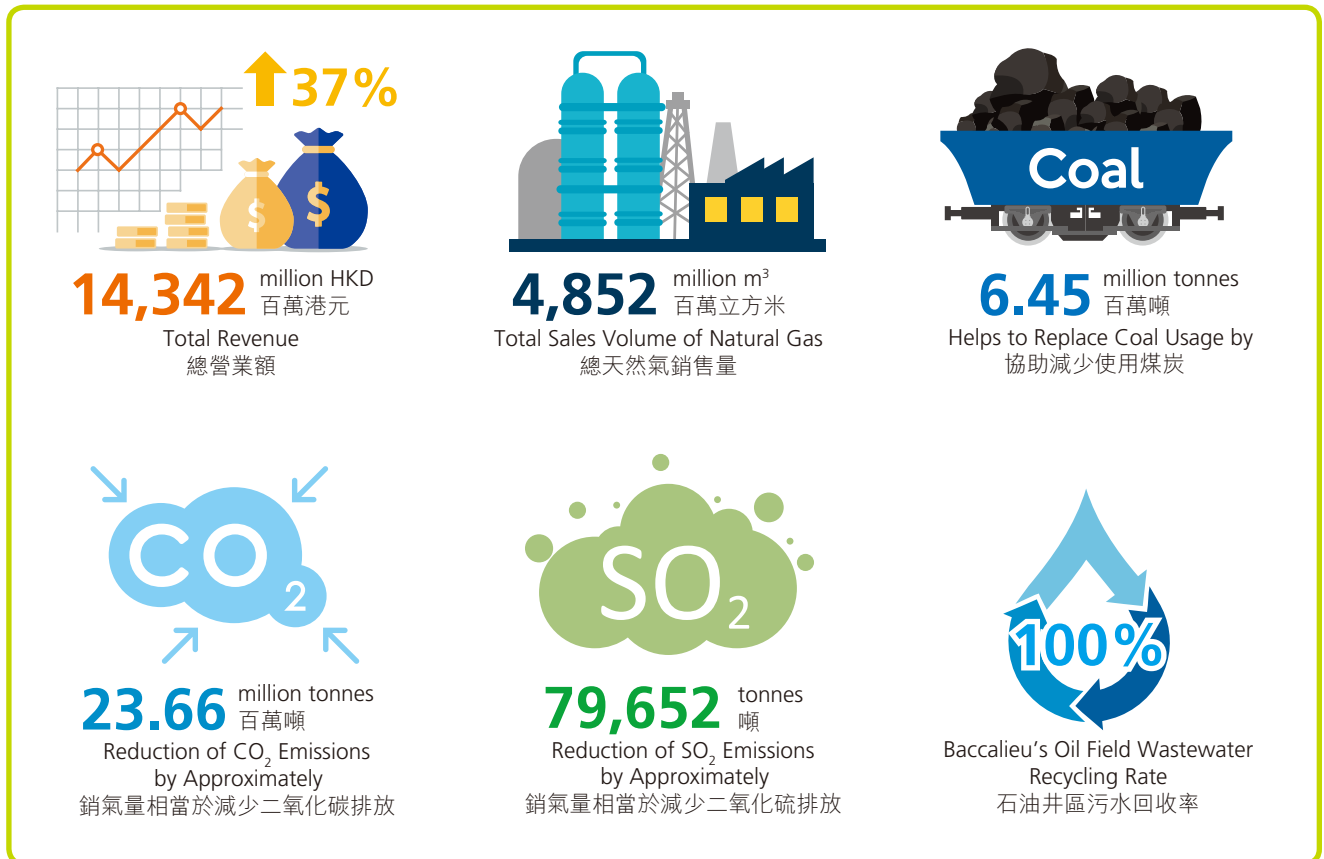
許鉄良
主席

二零二一年年度環境、社會及管治報告

(continued) (續)

SUMMARY OF SUSTAINABLE PERFORMANCE

可持續發展表現摘要



MANAGEMENT SYSTEM CERTIFICATION

管理體系認證



1. ABOUT ESG REPORT

1.1 Reporting Basis

The ESG Report is prepared in accordance with the Environmental, Social and Governance Reporting Guide (“ESG Reporting Guide”) set forth in Appendix 27 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the “Stock Exchange”). This ESG Report discloses the Group’s efforts in Environmental, Social and Governance (“ESG”) aspects. In order to fully understand the environmental, social and corporate governance performance of the Group, this ESG Report should be read in conjunction with the “Corporate Governance Report” within the annual report.

During the preparation for the ESG Report, the Group has applied the reporting principles in the aforementioned ESG Reporting Guide as the following:

Materiality: Materiality assessment was conducted to identify material issues during the year, thereby adopting the confirmed material issues as the focus for the preparation of the ESG Report. The materiality of issues was reviewed and confirmed by the board of Directors of the Company (the “Board”) through the environmental, social and governance committee of the Company (the “Committee”). Please refer to the section headed “Value the Participation of Stakeholders” for further details.

Quantitative: The standards and methodologies used in the calculation of the key performance indicators (“KPI”), as well as the applicable assumptions are supplemented in notes.

Consistency: Unless otherwise stated, the ESG Report was prepared in the same methodology as the previous year for comparison purposes. Explanations will be provided regarding data in the event of any changes in the disclosure scope and calculation methodologies that may affect the comparison with previous reports.

1.2 Reporting Scope

Unless otherwise specified, the reporting scope is consistent with the annual report, which covers the core business of the Group in the PRC and the core business of the Group’s subsidiary, Baccalieu Energy Inc. (“Baccalieu”) in Canada for the year. The core business of the Group includes the operation of city gas pipelines, pipeline design and construction; transportation, distribution and sales of compressed natural gas (“CNG”) and liquefied natural gas (“LNG”), and the development, production and sales of crude oil and natural gas, along with other upstream energy resources. Based on the materiality of the business segments and their relative environmental impacts, the ESG Report only includes environmental KPI data for the four business segments within the scope of the report. These segments include Baccalieu, Qinghai COG Pipeline Co., Ltd (“LNG processing plants”), Shandong Qizhi Equipment Manufacturing Co., Ltd (“Shandong Qizhi Equipment”) and the Zhuhai head office. During the year, the Zhuhai head office has incorporated the relevant environmental data of China City Natural Gas Investment Group Co. Limited.

1.3 Information and Feedback

For information on ESG aspects of the Group, please refer to the ESG Report on the Group’s official website (www.hk603.com). If anyone has any comments, suggestions or feedback on the content of the ESG Report, please feel free to email us at info@hk603.com.

1. 關於ESG報告

1.1 編製基準

集團按照香港聯合交易所有限公司(「聯交所」)證券上市規則附錄二十七《環境、社會及管治報告指引》(「ESG報告指引」)編製ESG報告。ESG報告披露集團於本年度內在環境、社會及管治(「ESG」)方面所推行的各項工作。ESG報告應與年報中的「企業管治報告」章節一併閱覽，以便全面了解集團在環境、社會及企業管治方面的表現。

在編製ESG報告期間，集團採用了上述ESG報告指引中的匯報原則，如下所示：

重要性：集團已於本年度進行重要性評估以識別重大議題，並將已確認的重大議題作為ESG報告的編製重點。議題的重要性已由公司董事局(「董事局」)經公司環境、社會及管治委員會(「委員會」)審閱及確認。有關進一步詳情，請參閱「重視利益相關方參與」一節。

量化：計算關鍵績效指標(「關鍵績效指標」)數據所使用的標準和方法以及適用的假設均已於註釋補充。

一致性：除非另有說明，ESG報告的編製方法與上年度一致，以便進行比較。如披露範圍及計算方法有任何變化，並可能影響與過往報告的比較，集團將對相應的數據進行解釋。

1.2 報告範圍

除有特別註明外，報告範圍與年報一致，其涵蓋本年度內集團於中國以及集團附屬公司Baccalieu能源股份有限公司(「Baccalieu公司」)在加拿大的核心業務。集團重要的核心業務包括城市管道燃氣營運、管道設計及建造；壓縮天然氣(「CNG」)及液化天然氣(「LNG」)之運輸、分銷及銷售；原油及天然氣等其他上游能源資源開發、生產及銷售。基於業務分部的重要性及其相對的環境影響，ESG報告僅包含報告範圍內4家業務分部的環境關鍵績效指標數據。該等分部包括Baccalieu公司、青海中油管道燃氣有限公司(「LNG加工廠」)、山東齊智設備製造有限公司(「山東齊智設備」)以及珠海總部辦公室。於本年度，珠海總部已新增併入中油中泰燃氣投資集團有限公司相關環境數據。

1.3 信息及反饋

有關集團ESG方面的資訊，請詳閱上載至集團官方網站(www.hk603.com)的ESG報告。如任何人士對ESG報告的內容有任何意見、建議或反饋，歡迎以電郵形式發送至info@hk603.com。

二零二一年年度環境、社會及管治報告

(continued) (續)

2. ABOUT US

2.1 Corporate Profiles

The Group is principally engaged in the investment in natural gas and energy related business. Operations of the Group include piped city gas business, pipeline design and construction; transportation, distribution and sale of CNG and LNG; and development, production and sale of crude oil and gas and other upstream energy resources.

As a piped city natural gas service provider, the Group supplies city natural gas through long-distance transmission pipelines. With 71 concession rights, the Group has built up city pipeline networks which offer stable and sufficient natural gas resources to local household, industrial, commercial and other users. As a non-pipeline natural gas provider, the Group has established 2 LNG plants in Qinghai Province, the PRC. Meanwhile, the Group has also built certain CNG primary stations to ensure a smooth supply of natural gas all year round. These facilities support supplies of natural gas to cities not yet covered by pipeline networks and are treated as emergency backup gas sources for the Group.

As a major national operator of natural gas stations for automobile natural gas filling, the Group operates 63 natural gas refueling stations across the country. All kinds of automobiles, city buses and long-distance buses can be converted into natural gas operation system by paying an affordable fee. Some of the provinces will provide subsidy to automobile owners who are willing to convert their automobile into natural gas operating system. With support from the PRC government, the Group offers inexpensive, clean and environmental friendly natural gas to the transportation sector.

As an operator of natural gas branch pipelines, the Group has already completed approximately 16,950 km natural gas pipelines in 16 provinces, cities and autonomous regions. Apart from bringing in stable natural gas transmission revenue, the branch pipelines constructions will also facilitate the development of projects along the down-stream.

The Group has established a large-scale natural gas transport and logistics operation in the PRC, including the set up of LNG and CNG fleets which have reinforced the mobility and coverage of our natural gas supplies.

As an upstream energy resources producer, the Group engages in the development, production and sale of crude oil and gas and other resources in Alberta of Canada. The exploration and production business of the Group has the proved reserves of approximately 26.04 million barrels of oil equivalent and the proved plus probable reserves of approximately 41.40 million barrels of oil equivalent. Its average daily production was 4,936 barrels of oil equivalent during the year. Our exploration and production business possesses energy business in production, a very experienced management team with proven track records, a stable production assets portfolio and strong profitability with considerable potential for growth.

2. 關於我們

2.1 公司簡介

集團主要從事天然氣及能源相關業務之投資。集團之業務包括城市管道燃氣營運、管道設計及建造；CNG及LNG之運輸、分銷及銷售；及原油及天然氣等其他上游能源資源開發、生產及銷售。

作為城市管道燃氣服務供應商，集團透過長距離輸送管道供應城市天然氣。集團已獲得71個燃氣特許經營權，建立了城市管道網絡，為當地家庭、工商等用戶提供穩定及充裕之天然氣資源。作為非管道天然氣供應商，集團於中國青海省建立了兩座LNG工廠。同時，集團已建造多個CNG加氣母站，確保集團之天然氣供應全年保持穩定。該等設施有助於向尚未有管道網絡覆蓋的城市供應天然氣，並被視為集團之應急備用燃氣來源。

作為全國車用天然氣加氣站之主要營運商，集團已在全國範圍內擁有63座天然氣加氣站。各類汽車、公共交通汽車及長途客運車均可以通過改裝，即以可承擔之費用轉換成天然氣運行系統。並且，部分省份將為願意將汽車轉換成天然氣運行系統的車主提供補貼。在國家政府之支持下，集團向運輸界提供價格低廉、清潔及環保之天然氣能源。

作為天然氣支綫管道經營之營運商，集團已於16個省、市及自治區投資建成總長度約16,950公里的天然氣管道，除了增加天然氣管道運輸收入外，更可帶動下游沿線天然氣市場的開發。

集團已於中國發展龐大的天然氣運輸及物流業務，已建立LNG及CNG運輸車隊，增強了集團天然氣供應之流動性以及擴大了其覆蓋範圍。

作為上游能源資源之生產商，集團於加拿大阿爾伯塔省從事原油及天然氣等資源的開發、生產及銷售，集團油氣生產業務之探明儲量約為26.04百萬桶油當量及探明加控制儲量約為41.40百萬桶油當量，本年度平均每日產量為4,936桶油當量。集團之油氣生產業務擁有在產的能源業務及一個經驗豐富、業績卓越的管理團隊，具穩定的生產資產組合，較強的盈利能力及廣闊的增長空間。

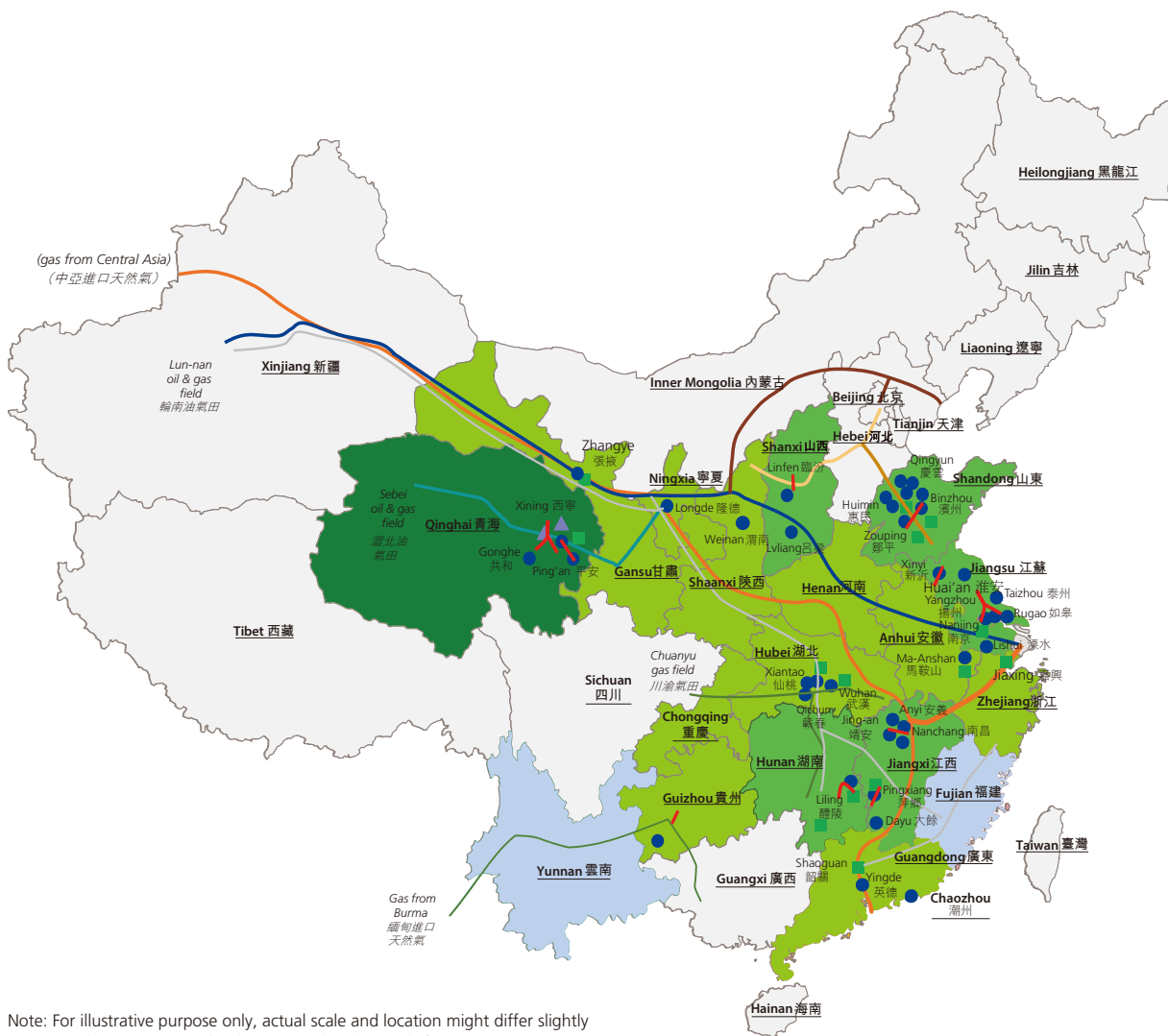
NATURAL GAS DISTRIBUTION BUSINESS IN THE PRC 中國天然氣分銷業務

Main trunk pipelines 主要幹線管網

- West-to-East line 1
西氣東輸一線
- West-to-East line 2
西氣東輸二線
- West-to-East line 3
西氣東輸三線
- Se-Ning-Lan line
滌寧蘭線
- Shaan-Jing line 3
陝京三線
- Shaan-Jing line 4
陝京四線
- Cang-Zi Line
滄淄線
- Zhong-Wu Line
忠武線
- Myanmar-China Line
中緬線

Company operating assets / data 公司運營資產及數據

- Branch pipeline
公司自有支線管道
- City gas project with concession right
公司城市天然氣項目
- ▲ LNG processing plant
公司液化天然氣工廠
- CNG/LNG/L-CNG station
公司天然氣加氣站
- Province with natural gas sales volume > 500mn m³ in 2021
公司二零二一年銷氣量5.0億立方米以上省份
- Province with natural gas sales volume between 100mn m³ and 500mn m³ in 2021
公司二零二一年銷氣量1.0-5.0億立方米省份
- Province with natural gas sales volume < 100mn m³ in 2021
公司二零二一年銷氣量1.0億立方米以下省份
- Province to enter in near term
公司於近期內準備開展業務的省份



Note: For illustrative purpose only, actual scale and location might differ slightly
註：此圖僅為示意圖，比例與位置可能和實際情況略有出入

二零二一年年度環境、社會及管治報告

(continued) (續)

OIL AND GAS PRODUCTION BUSINESS IN CANADA

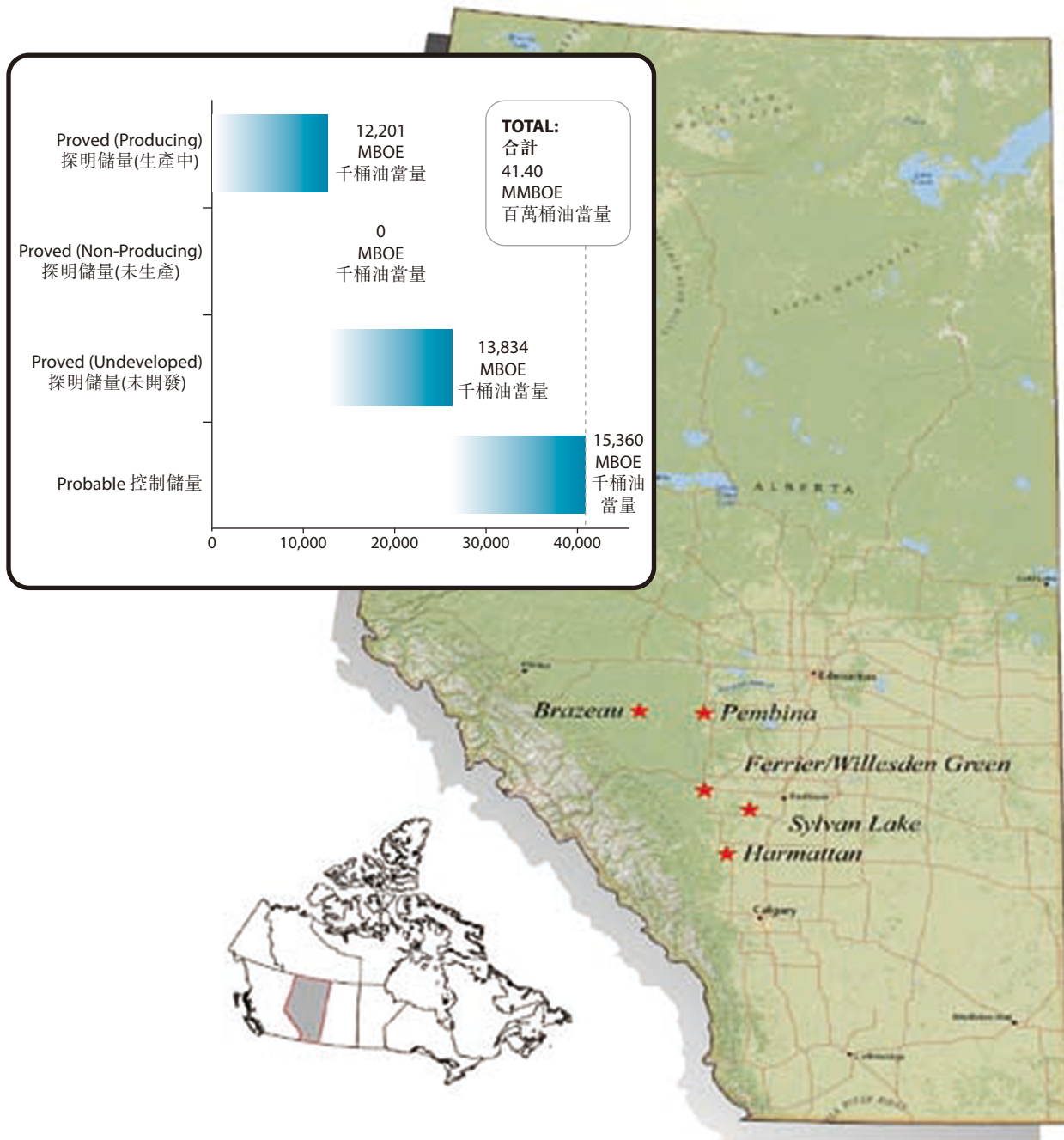
加拿大油氣生產業務

RESERVES

As at 31 December 2021

儲量

於二零二一年十二月三十一日



2.2 Enterprise Culture

2.2 企業文化



二零二一年年度環境、社會及管治報告

(continued) (續)

2.3 Concept of Sustainability

The Group is principally engaged in natural gas and energy related businesses. It is the responsibility of the Group to “Develop Business of Clean Energy, Contribute Sustainability to Society” and we pay close attention to global issues such as climate change, environmental protection and employee rights and interests. In response to the Paris Agreement and the national policy of “Reducing Carbon Emissions and Mitigating the Problem of Smog”, the Group actively contributes to refining the energy mix in the PRC, increasing the market share of natural gas and strongly supporting the development of clean energy.

As a natural gas service provider, it is our duty to promote and spread the use of natural gas and make contributions to the improvement of the atmospheric environment. Through years of efforts and effective operational management, the Group contributed to ease global warming; during the year, 4,852 million cubic meters of natural gas were successfully promoted and sold, equivalent to the reduction of 6.45 million tonnes of coal used, contributed to the reduction of carbon dioxide emissions by approximately 23.66 million tonnes.

The Group concentrated in the investment of high-quality city gas projects, intensified efforts in developing possible markets and strived to obtain concession rights in various regions of the PRC; the Group seized every opportunity, improved efficiency, increased market share of gas and provided sufficient and clean natural gas resources for users in different regions. As of 31 December 2021, the Group has obtained 71 concession rights, and has provided clean and efficient natural gas to 1,765,241 residential users and 15,602 industrial and commercial users in 16 provinces, cities and autonomous regions of the PRC. The Group owned 63 natural gas refuelling stations and approximately 16,950 kilometres natural gas pipelines. Utilising a structure wherein city gas projects act as the primary body, and resource development and energy services act as the wings, the Group has composed a diversified and coordinated development of unified upstream and downstream operations. In the future, the Group will further explore the domestic market of gas, allocate resources accordingly, ensure the provision of stable gas supply and promote natural gas to become the main force in the energy consumption structure of the PRC.

2.3 可持續發展理念

集團主要從事天然氣及能源相關之業務。集團視「發展清潔能源事業，保障人類持續發展」為己任，熱切關注氣候變化、環境保護、員工權益等全球性議題。為響應《巴黎協定》的簽定、國家「降碳除霾」政策的落實，集團積極配合調整能源結構並致力提高天然氣的市場佔比率，大力支持發展清潔能源的大方向。

集團作為燃氣公司，協助國家推廣天然氣的廣泛使用以貢獻空氣治理，我們責無旁貸，經過多年孜孜不倦的努力，配合行之有效的營運管理，集團本年度成功推廣及銷售天然氣4,852百萬立方米，相當於減少使用煤炭6.45萬噸，減少排放二氧化碳當量23.66萬噸，舒緩地球溫室效應。

集團集中投資高品質的城市燃氣項目，加大力度開發市場，努力獲取中國多個地區的燃氣特許經營權，搶抓機遇，提高效率，努力提高燃氣市場佔有率，為不同地區的用戶提供充足、清潔的天然氣資源。截至二零二一年十二月三十一日，集團已在中國16個省、市及自治區擁有71個燃氣特許經營權，為1,765,241戶居民用戶及15,602戶工商業用戶提供潔淨、高效的天然氣資源。集團擁有63座天然氣加氣站，累計投資建設天然氣管道約16,950公里，形成以城市燃氣項目為主體，資源開發、能源服務為兩翼，上下游一體，多元化協同發展的發展格局。未來，集團將進一步開拓國內的燃氣市場，做好資源配置，確保提供穩定的燃氣供應，推動天然氣成為中國能源消費結構中的主力軍。

2.4 ESG Governance Structure

The Group developed an ESG governance framework to ensure the alignment of ESG governance with our business strategy, while integrating ESG management into our business operations and decision-making process.

To manage the Group's ESG performance, related issues and potential risks, the Board has to take the overall responsibility for the Group's ESG issues and reporting. To improve ESG governance and enhance management capabilities, the Group has established the Committee prior to the publication of the ESG Report, whose key functions include, but are not limited to:

- Supervise and review the formulation of the Group's ESG management policies and strategies to ensure compliance with applicable legal and regulatory requirements, and recommend improvement strategies;
- Oversee the formulation and implementation of the Group's ESG objectives, including: setting the Group's ESG management performance objectives; collecting and analysing ESG data to monitor and evaluate the Group's ESG performance; reviewing progress towards the achievement of the objectives and providing recommendations on actions required to achieve the objectives;
- Review the annual ESG Report and other ESG-related disclosures and make recommendations to the Board for approval; and
- Identifying material ESG issues, risks and opportunities relevant to the company, assessing the impact of such risks or opportunities on the Group, and advising the Board on how the risks or opportunities should be addressed.

The Committee meets formally at least once a year to regularly discuss ESG-related issues and report back to the Board on its decisions or recommendations in order to improve the overall performance of the ESG policy.

3. VALUE THE PARTICIPATION OF STAKEHOLDERS

In order to collect and understand the suggestions and opinions of stakeholders on the ESG aspects of the Group, we regularly communicate with stakeholders such as investors and shareholders, suppliers, employees and the community, non-governmental organisations ("NGOs") and media. Based on the guidelines stipulated by the Stock Exchange, the Group communicated with stakeholders through a diverse and unobstructed way to understand their expectations and needs, and adjusted the strategies and policies of sustainability development according to material issues prioritised by stakeholders in a timely manner.

2.4 ESG管治架構

集團已制定ESG管治架構，以確保ESG管治與我們的業務策略保持一致，並將ESG管理融入至我們的業務營運及決策過程當中。

為了管理集團於ESG方面的表現、相關問題和潛在風險，董事局需對集團的ESG議題及匯報承擔整體責任。為完善ESG管治及提升管理能力，集團已於ESG報告刊發前成立委員會，其主要工作職能包括但不限於：

- 監督及檢討集團ESG管理方針及策略的制定，確保符合適用的法律及監管要求，並建議改善策略；
- 監察集團目標的制定和實施，包括：制定集團ESG管理績效目標；收集和 분석ESG數據、監測和評估集團的ESG表現；檢討目標實現的進度，並就實現目標所需採取的行動提供建議；
- 審閱年度ESG報告及其他ESG相關披露信息，並向董事局提出建議以供批准；及
- 識別與集團有關的重要ESG事宜、風險與機遇，評估此類風險或機遇對集團的影響，並就風險或機遇的應對向董事局提供建議。





委員會每年至少安排一次正式會議，定期就ESG相關事宜進行討論，並向董事局匯報其決定或建議，以提高ESG政策的整體績效。

3. 重視利益相關方參與

我們定期主動與投資者及股東、客戶、供應商、員工以及社群、非政府組織（「非政府組織」）及媒體等利益相關方進行溝通，以便收集且了解各利益相關方對集團在ESG方面的意見與觀點。集團以聯交所報告指引為基礎，透過建立多元、通暢的溝通方式與利益相關方進行溝通交流，了解利益相關方的期望與需求，針對利益相關方優先關注的重要議題，適時調整可持續發展策略及政策。

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Stakeholders 利益相關方	Channels of Communication 溝通渠道	Expectation 期望
 <p>Investors and shareholders 投資者及股東</p>	<ul style="list-style-type: none"> — Announcements and circulars 公告及通函 — Annual general meeting and other shareholder meetings 股東週年大會及其他股東會議 — Financial reports 財務報告 	<ul style="list-style-type: none"> — Sustainable development 企業可持續發展 — Complying with relevant laws and regulations 保障合法權益 — Risk management 改善內部監控及風險管理 — Disclosing latest information of the corporate in due course 及時公布企業最新信息 — Financial performance 財務業績
 <p>Customers 客戶</p>	<ul style="list-style-type: none"> — Customer service counter 客戶服務窗口 — Online platform e.g. WeChat official account 公司微信公眾號等網絡平台 — Customer satisfaction survey 客戶滿意度調查 	<ul style="list-style-type: none"> — Safe and high-quality product and service 安全及優質的產品與服務 — Complying with relevant laws and regulations 合規經營 — Protection of customer privacy 客戶隱私保護
 <p>Suppliers 供應商</p>	<ul style="list-style-type: none"> — Business visit 實地考察 — Management meeting 管理層會議 — Business discussion and negotiation 商務洽談 	<ul style="list-style-type: none"> — Win-win cooperation 合作共贏 — Business ethics and integrity 商業道德與信譽 — Fair and open procurement 公平公開競爭
 <p>Employees 員工</p>	<ul style="list-style-type: none"> — Intranet 內部網絡 — Regular trainings 定期培訓 — Regular meetings 定期會議 — Employee announcement and broadcast 員工通訊和廣播 — Performance appraisal 工作表現評核 	<ul style="list-style-type: none"> — Remuneration and benefits 薪酬與福利 — Occupational health and safety 健康安全的工作環境 — Career development 職業發展 — Equal opportunities 平等晉升機會
 <p>Community, NGOs and media 社群、非政府組織及媒體</p>	<ul style="list-style-type: none"> — ESG reports ESG報告 — Charity events 慈善活動 	<ul style="list-style-type: none"> — Safe and high-quality product and service 安全及優質的產品與服務 — Environmental protection 履行環境保護責任 — Open and transparent disclosure 公開透明披露 — Giving back to society 支持公益事業

3.1 Identifying and Prioritising Material Issues

With reference to international, national and industrial standards, and benchmarking with leading corporates in the industry, the Group identified 19 issues that reflect the sustainable development of the business. Through online questionnaires, the Group extensively consulted with both internal and external stakeholders as to their degree of concern for each issue. A total of 1,353 valid questionnaires were received.

3.1 識別及釐定重要性議題的優先次序

集團參考國際、國內及行業標準，對比同行領先企業，識別出反映集團業務可持續發展的議題共19項，並透過線上問卷調查的方式，廣泛諮詢內外利益相關方對各個可持續發展議題的關注程度。此次問卷調查過程共收到1,353份有效問卷。



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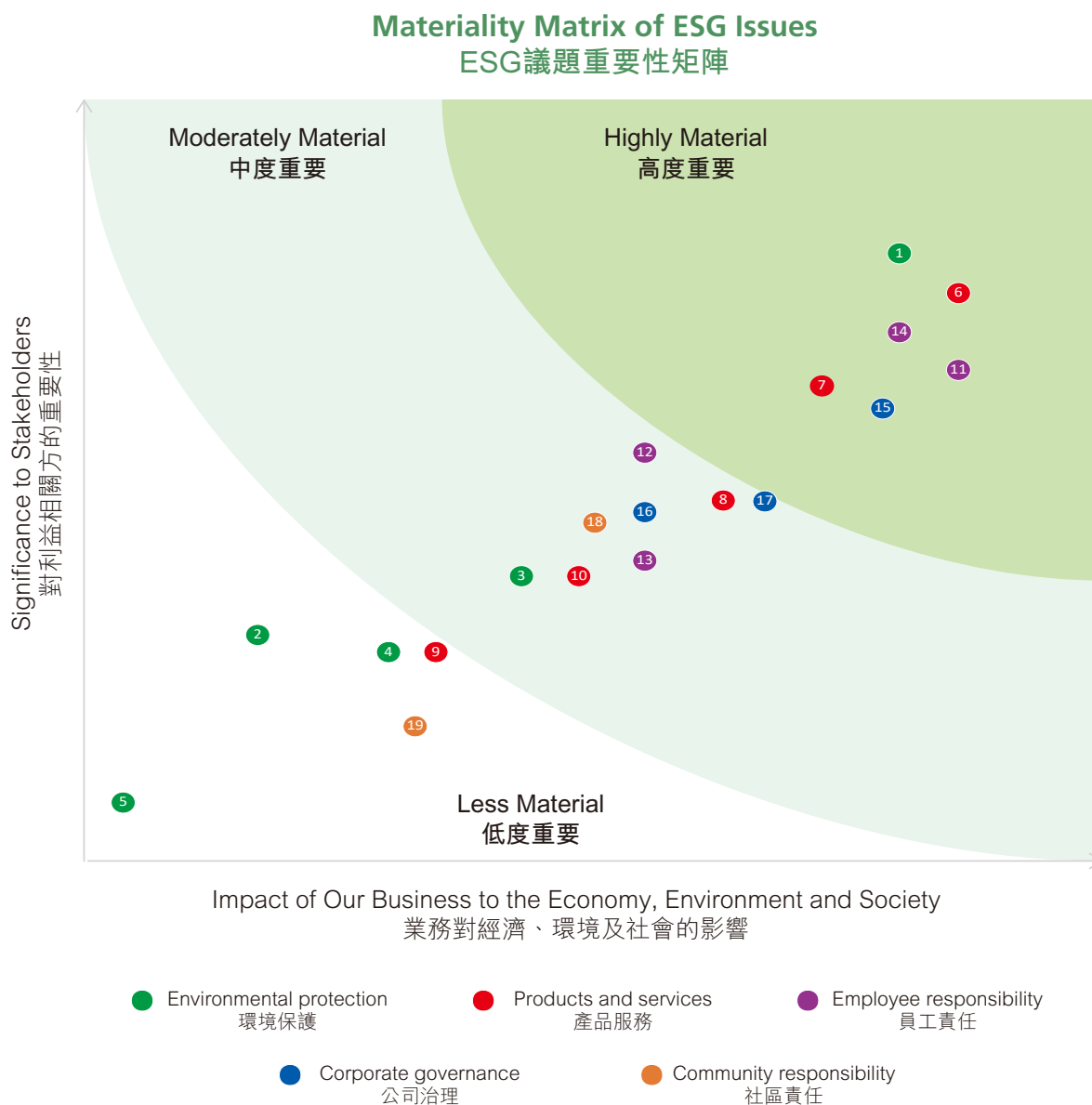
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3.2 Materiality Analysis

Using the feedback and the questionnaire results from the stakeholders, the Group conducted materiality assessment and plotted the findings in the materiality matrix. The following materiality matrix shows how these 19 issues were prioritised. The closer an issue is to the upper right-hand corner, the more significant it is to the Group and the stakeholders. The closer an issue is to the lower left-hand corner, the less significant it is.

3.2 重要性分析

集團利用利益相關方的反饋與問卷結果對相關可持續發展議題進行重要性評估並繪製重要性矩陣。以下重要性矩陣展示了19項議題的優先次序。矩陣中越靠近右上角的議題對集團及利益相關方的重要性越高，越靠近左下角的議題重要性越低。



- 1 Prevention of Oil and Natural Gas Leakage
石油天然氣洩漏預防
- 2 Resources Consumption (including Energy Consumption and Water Consumption)
資源消耗 (包括能源消耗及水源消耗)
- 3 Emissions and Pollution Control
控制排放及污染
- 4 Waste Management
廢物處理
- 5 Climate Change
氣候變化
- 6 Safe and Stable Supply of Gas
安全穩定供氣
- 7 Quality of Products and Services
產品及服務質量
- 8 Customer Service Management
客戶服務管理
- 9 Reasonable Price
合理的價格
- 10 Customer Privacy Protection
客戶隱私保護
- 11 Protection of Employees' Rights
保護員工權益
- 12 Employee Training and Development
員工培訓及發展
- 13 Caring for Employees
員工關愛
- 14 Safeguard Occupational Health and Process Safety
保障職業健康與工藝安全
- 15 Compliance with Environment-related Laws and Regulations
遵守環境相關法規
- 16 Environmental and Social Risk Management in Supply Chain
供應鏈環境與社會風險管理
- 17 Corruption and Fraud Prevention
防止貪污及舞弊
- 18 Corporate Social Responsibility
企業社會責任
- 19 Contribution to Local Economy
服務地方經濟

After considering the impact of our business to the economy, environment and society and the significance to stakeholders in respect of these ESG issues, 6 highly material issues, 8 moderately material issues and 5 less material issues were identified. While focusing on material issues, this ESG Report also responds to the major concerns of external stakeholders. The policies and management measures in all material aspects specified in the ESG Reporting Guide issued by the Stock Exchange are set out in the relevant sections of this ESG Report. For details, please refer to the index table in the appendix.

綜合考慮集團業務就這些ESG議題對經濟、環境及社會的影響及對利益相關方的重要性兩個層面後，我們確立了6項高度重要議題、8項中度重要議題以及5項次重要議題。本ESG報告將在聚焦重要議題的同時，回應外部利益相關方關注的主要事宜。聯交所ESG報告指引各重要層面的政策與管理措施於本ESG報告中的對應位置，詳見附錄中的索引表。

4. SAFE AND STABLE SUPPLY OF GAS

The Group upholds a strong sense of responsibility and commitment to ensure that our users enjoy a stable supply of gas and quality service. For this purpose, the Group selects suppliers rigorously to ensure a good quality of the gas, gas safety inspections are conducted regularly and gas safety is communicated to the public, so as to enhance the level of safety from the supply side to the end use of gas.

4. 安全穩定供氣

集團秉持高度的責任感和使命感全力確保燃氣安全穩定供應，多方面保障穩定供氣，確保各類用戶能安全及穩定地使用天然氣。為此，集團嚴格挑選供應商、確保燃氣質量，同時定期開展燃氣安全檢查、舉辦燃氣安全宣傳等，務求由供氣到用氣全方位保障燃氣安全。

CASE 案例：

Ensure Gas Safety

Certified gas safety personnel use advanced equipment to conduct gas safety inspections regularly.



保障燃氣安全

持證燃氣安檢人員使用先進儀器定期展開燃氣安全檢查。



4.1 Procurement Management

In order to standardise the management procedures for suppliers, establish a safe and stable supplier team and prevent accidents caused by procured materials, parts, and equipment, the Group has formulated the “Measures for the Management of Materials”, which is coordinated and executed by the Operations Management Department. The Group aims to standardise procurement procedures through the mechanism of material procurement management. The Group also conducts audits and inspections on important suppliers regularly to examine the production process and management of suppliers. In addition, the Group has established a supplier catalogue. The Group re-evaluates its suppliers every year and refrain from selecting suppliers with poor performance. To further establish a network of reliable service providers, the Group has formulated the “Measures for Market Access Management”, and requires suppliers to bid for the Market Access Permit prior to any commercial activities such as bidding, contract negotiations, etc. The Group has rigorous review and approval procedures for Market Access Permit applications, and each subsidiary is required to evaluate suppliers’ service quality, safety, environmental protection awareness, market reputation, sales performance and professional standard qualifications such as the ISO 14001 Environmental Management System to ensure the quality of the suppliers, and to manage the potential environmental and social risks in the supply chain. During the year, the Group implemented practices regarding supplier engagement to all suppliers.

The Group strictly follows the Bidding Law of The People’s Republic of China for the selection of contractors and have formulated the “Regulations for the Bidding and Tendering Management of Project Service and Material Procurement” to choose project suppliers carefully to ensure the quality of projects, to control project costs and to minimise procurement costs. To fulfil these requirements, the Group has established a bidding management team, which is responsible for the tendering and bidding procedures for project service and material procurement. For projects which have contracts collectively worth over RMB300,000, the process of tendering and bidding is applied. During the procurement process of raw materials for construction, price comparison methods are used in Qinghai Hongli Pipeline Construction Co., Ltd. (“Qinghai Hongli”) to select a proper supplier. In addition, the quality of the suppliers, their ability to provide supplies and supplied products’ attainment of certified standards are also being assessed to ensure the quality of materials used.

In addition, the Group is committed to supporting the local economy by prioritising the procurement of goods and services from local suppliers, in a bid to reduce the carbon footprint during transportation. The Group also gives priority to suppliers using environmentally-friendly products and services in the selection process, striving to minimise potential environmental and social risks in the supply chain. The Group will continuously review the performance of suppliers in its supply chain and environmental and social standards on a regular basis. The Group will terminate the contracts with these suppliers if any serious violations of laws and regulations are found.

4.1 採購管理

為規範供應商管理，建立安全、穩定的供應商隊伍，防止因外購材料、零件、設備等引發的安全事故，集團制定《物資管理辦法》，由運營管理部負責統籌及執行，通過完善物資採購管理監督機制，規範物資採購工作。同時集團亦對重要供應商定期進行考查，掌握供應商生產和管理情況。此外，集團建立供應商目錄，每年對供應商進行考核，質量參差的將會被淘汰。為進一步建立可靠的服務商資源網絡，集團制定《市場准入管理辦法》，要求供應商申辦《市場准入證》方可進行招投標、洽談合同等相關的商業活動。審核《市場准入證》的過程嚴謹，各附屬公司須關注各供應商在服務品質、安全、環保、服務意識、市場信譽及業績等多方面的評價及ISO 14001環境管理體系相關的專業資格等，確保供應商的質量，以管理供應鏈中潛在的環境和社會風險。於本年度，集團已向所有供應商執行有關供應商聘用的慣例。

在選擇工程項目供應商時，集團嚴格按照《中華人民共和國招標投標法》的法律法規，制定《工程服務和物資採購招投標管理實施細則》等，審慎選擇工程項目供應商，以確保工程品質、控制工程造價及降低採購成本。為此，集團建立招標領導小組，負責集團工程服務和物資採購招標活動。工程施工單項合同或綜合物資採購合同，金額達到30萬元人民幣以上的專案，必須啟動招標投標程序。青海宏利燃氣管道安裝工程有限責任公司(「青海宏利」)在購買建築原材料時，會根據規定採用詢價對比方式進行採購，同時亦關注供應商品質、供貨能力、產品合格證等資格信用情況，保證材料的質量。

此外，集團致力支持當地經濟，優先採購當地供應商，以減少運輸過程中的碳足跡。集團亦會在甄選過程中優先考慮使用環保產品及服務的供應商，努力將供應鏈中潛在的環境和社會風險降至最低。集團將繼續定期審查其供應鏈中供應商的表現以及環境和社會標準。如發現其有任何嚴重違反法律法規的行為，集團將終止與該等供應商的合同。

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4.2 Safe Usage of Gas

In order to improve the safe usage of gas, all subsidiaries conduct gas safety inspections in their serving regions and regularly detect leakages through using advanced monitoring instruments, conducting safety assessments and providing regular inspections for households and residents. With the aim of building the sense of gas safety, the Group carries out activities to promote the knowledge of gas safety to the public, such as organising educational and promotional activities in communities and schools to teach the public on the proper use of gas facilities and procedures to handle gas hazards when discovered.

4.2 用氣安全

為做好燃氣安全工作，各附屬公司在所服務地區開展燃氣安全檢查，利用先進儀器探測洩露風險及進行安全評估，為商戶及居民定期提供入戶檢查，確保用氣安全。同時開展普及燃氣安全知識的活動，包括在社區、學校舉辦宣傳活動，教授如何正確使用燃氣設施、發現燃氣隱患如何處理等基本用氣知識，共營安全用氣氛圍。

CASE 案例：

Regular maintenance of equipment and facilities



定期開展設備設施維護保養



4.3 Process Safety

The Group has established “Policy of Safety Production Management System”, “Policy of Safety Production Supervision and Inspection System”, “Policy of Employee Safety Management System”, “Policy of Special Vehicle Safety Management System” and other policies according to the Production Safety Law of the People’s Republic of China, Regulation on the Administration of Urban Gas, and other industry standards such as Safety Technical Specification for Operation, Maintenance and Rush-repair of City Gas Facilities to prevent and reduce accidents during production or transportation processes.

Employee safety meetings, safety production management committee meetings and safety transportation meetings are held regularly to implement the laws, regulations and safety instructions from superiors, and to discuss and formulate specific work programmes. The main contents of the work programme include conducting safety inspections regularly, strengthening the ability of employees to perform safety operations, providing safety education and training and carrying out rectifications of hazardous and emergency accidents.

4.3 工藝安全

集團依據《中華人民共和國安全生產法》、《城鎮燃氣管理條例》等法律法規和《城鎮燃氣設施運行、維護和搶修安全技術規程》等的行業標準，制定《安全生產管理制度》、《安全生產監督檢查制度》、《從業人員安全管理制度》及《專用車輛安全管理制度》等規定，以防止和減少因生產或運輸產生的安全事故。

集團定期舉辦職工安全大會和安全生產管理委員會工作會議，運輸人員定期舉辦安全工作例會等方式，貫徹各項法律法規和上級的安全指示精神並討論制定具體工作計劃。計劃的主要內容包括：做好安全檢查、強化員工安全操作自主性、提供安全教育培訓、進行事故隱患整改及應急事故處理等。

CASE 案例：

Gas Leakage Emergency Drill

The Group organised a natural gas leakage emergency drill, which simulated an accident of a gas leak and combustion, aiming to improve employees’ emergency response ability.

燃氣泄漏應急演練

集團舉辦燃氣管道事故應急救援演練，鍛煉各部門協同處置大型突發事件的能力。



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The Group has also implemented the "Safety Production Liability System". All subsidiaries are required to sign a "Safety Objectives Responsibility Statement" with the Head Office each year and two safety inspections are conducted by the "Safety Supervision Department" each year. Individuals or teams with excellent and exceptional performance will receive rewards, and the departments with unsatisfactory performances will have to improve according to rectification plans. Furthermore, the Group has formulated the "Regulation for the Management of Equipment for Tank Trucks" and "Code of Pressure Vessels Usage" in accordance with relevant laws and regulations, such as the Regulation on the Implementation of the Road Traffic Safety Law of the People's Republic of China, Regulations on the Safety Management of Hazardous Chemicals, Provisions on the Administration of Road Transport of Dangerous Goods. The regulation and codes aim to strengthen safety management and control the transportation of dangerous chemicals, the use of traction vehicles and the use and repair of pressure vessels. According to the Code of Health, Safety and Environment ("HSE") of the safety management system implemented, Baccalieu regularly conducts safety risk assessments, and it lists working procedures for operations with potential hazards, whilst establishing a complete monitoring mechanism. Currently, the sealed-space working system, the hot work permit system, the lock-up and signage procedures and the safe transportation of dangerous goods system have been stipulated in the Code of HSE to prevent the occurrence of major accidents.

集團亦重視落實《安全生產責任制度》。總部每年與附屬公司簽訂「安全目標責任書」，要求安全監察部每年進行兩次安全檢查，對檢查過程中表現優異的個人或班組給予獎勵，對安全檢查中不合格的部門下發整改計劃並跟進整改情況。與此同時，集團根據《中華人民共和國道路交通安全法》、《危險化學品安全管理條例》、《道路危險貨物運輸管理規定》等法律法規，制定《槽罐車設備管理規定》和《壓力容器使用管理規則》等規定，加強對危險化學品車輛運輸、牽引車輛和壓力容器使用及修理等的安全管理工作。Baccalieu公司根據其所實施的企業安全管理系統中的健康、安全及環境(HSE)守則，定期進行安全風險評估，對有潛在重大安全危害的工序列明安全制度實施細則並制定完善的監測機制。目前HSE守則中已訂明密閉空間工作制度、熱工作許可證制度、上鎖掛牌程序、及安全運送危險品制度等，以期杜絕重大安全事故的發生。



Regular Inspection of Work Equipment
定期設備檢查

4.4 Occupational Safety

The Group attaches great importance to the health and safety of employees, and strictly complies with the Law of the People's Republic of China on the Prevention and Control of Occupational Diseases and formulated policies, such as "Safety Management Measures" and "Employee's Position Operating Regulations" to provide guidelines on the use of protective equipment, educational training and health inspection with reference to the specific situation of each subsidiary. Instructions on the proper use of personal protection equipment are provided to ensure that the level of labour safety meets the standards set by the relevant departments in the locations of operation. Qinghai Hongli arranged safety inspections which are provided by safety management personnel during the construction period. The inspections included checking of high-risk processes, the uses of protective mask and fire extinguisher during welding and painting works, inspecting the conditions, the anti-freezing, anti-slippery functions of safety rope, the use of anti-skid measures, safety ropes, escape ladders, ventilation systems, and toxic gas emissions for the employees working in confined spaces such as trenches and wells. Currently, affiliated companies of the Group are certified with Q/SY1002.1-2013 Health, Safety and Environmental Management System, OHSAS 18001 Occupational Health and Safety Management System and ISO 45001 Occupational Health and Safety Management System.

During the year, the Group was not aware of any material non-compliance with health and safety-related laws and regulations that would have a significant impact on the Group, including but not limited to Law of People's Republic of China on the Prevention and Control of Occupational Diseases, Labour Law of the People's Republic of China and Occupational Health and Safety Act of Alberta, Canada.

There were no work-related fatalities that occurred in each of the past three years including the year. During the year, the Group also did not record any lost days due to work-related injuries.

Qinghai Hongli also provides clear policies regarding safety operation procedures. It ensures that on-site facilities, equipment and tools meet safety standards, a flat and barrier-free working environment and emergency escape route are provided, adequate lighting is provided for works conducted at night, anti-explosive lighting fixtures are used, distinctive warning signage is provided for works at road sides to caution pedestrians and vehicles and signal lights and on-duty personnel are provided for road side works in the dark.

4.4 職業安全

集團重視員工的安全與健康，嚴格遵循《中華人民共和國職業病防治法》和根據按各附屬公司的實際營運情況制定的《安全管理辦法》、《從業人員崗位操作規程》等規定，為所有員工提供勞動保護用品、教育培訓和健康檢查。於生產過程中，指導員工正確佩戴和使用防護用品，確保勞動安全達到營運所在地有關部門規定的標準。青海宏利於施工期間安排安全管理人員現場檢查高危工序的進行，檢查工作包括在進行焊接和刷漆作業時，檢查工人的防護面罩、滅火器佩戴情況等；高空作業時檢查安全繩佩戴情況、防凍、防滑措施的使用情況等；以及員工於溝內、井下等密閉空間作業時檢查安全繩、逃生梯、通風系統及有毒氣體排放等情況，確保員工在安全情況下工作。目前，集團附屬公司擁有健康安全環境管理體系(Q/SY1002.1-2013)認證、職業健康安全管理体系(OHSAS 18001)認證以及職業健康安全管理体系(ISO 45001)認證。

於本年度，集團並不知悉任何嚴重違反健康及安全的相關法例及法規而對集團造成重大影響的情況，包括但不限於《中華人民共和國職業病防治法》、《中華人民共和國勞動法》及加拿大阿爾伯塔省的《職業健康與安全法》。

於過去三年(包括本年度)，集團無錄得任何無因工作關係而死亡的事件。於本年度，集團亦無錄得任何因工傷而損失的工作日數。

青海宏利亦對施工人員的安全作業制定明確的規定，確保現場設備、工具和材料擺放等須符合安全標準；作業現場必須保持平整暢通，設置緊急逃生通道等。夜間施工場地須設置足夠的照明，並確保作業帶內使用的照明燈具符合防爆要求。路邊作業須設置明顯的安全警示標誌，提醒行人和車輛注意過路安全，防止人員或車輛誤入作業坑。天黑後路邊作業亦須設置信號燈及配備值班人員，以策安全。

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In order to strengthen the safety awareness of employees, regular hazard identification training courses are provided at LNG processing plants every year. Employees engaged in dangerous works are equipped with personal protection equipment such as gas masks, safety helmets and anti-static workwear. To further reduce the possibility of occupational hazards occurring, LNG processing plants report possible occupational hazards to the local safety production supervision bureaus regularly and implement proper mitigation measures whenever necessary. Facilities and equipment are operated by trained operators with professional qualifications. For employees responsible for the transportation of natural gas, their "Special Equipment Operator Certificate" is reviewed and audited by relevant departments every review cycle. A daily safety meeting is held in Baccalieu to monitor the safety status of the working environment, rectify the identified problems or hidden dangers immediately and provide summaries and improvement of safety management work.

為加強員工的安全意識，LNG加工廠每年定期開辦危害因素辨識課程，向從事危險工作的員工定期發放如防毒面具、安全帽、防靜電工作服等的勞動防護用品。為進一步減低職業危害發生的可能性，LNG加工廠定期向地方安全生產監督管理局進行職業危害申報工作，並對可能造成職業危害的情況採取相應的措施。設備操作人員須經過特種作業操作培訓並取得專業資格後方能獨立上崗操作；需要持有《特種設備作業人員證》的天然氣危險品運輸人員，其有關資格證明必須於每個審核週期接受有關部門覆核。Baccalieu公司也會定期舉辦安全日會，以期對作業環境的安全現狀做到實時監控，對發現的問題或隱患即時整改，並對安全管理工作做到及時總結與提升。



Fire fighting drill
消防滅火演練



Gas leakage emergency drill
燃氣洩漏應急演練

4.5 Risk Management

In order to ensure safe and stable gas supply of the Group's natural gas transmission and distribution system, and to improve the rapid response and emergency response capability in the case of major accidents in the natural gas system, the Group established risk management documents such as "Safety Production Accident Emergency Rescue Plan" and "Natural Disaster Emergency Plan" based on the "Emergency Response Law of the People's Republic of China", "Emergency Accidents for Production and Management Units: Guidelines for the preparation of the plan GB/T29369-2013", and "Measures for the Management of Emergency Plan for Production Safety Accidents" (Order No. 88 of the State Administration of Work Safety). These risk management documents formulate emergency plans and on-site emergency disposal plans for various major accidents such as leakage accidents, fire accidents, explosion accidents, force majeure, etc. in the operating area, and clarifies the responsibilities of the relevant departments and related personnel in each process.

4.5 風險管理

為保障集團天然氣輸配系統安全穩定地供氣，提高天然氣系統發生重大突發事故的快速反應和應急處理能力，集團依據《中華人民共和國突發事件應對法》、《生產經營單位生產安全事故應急預案編製導則》(GB/T29369-2013)、《生產安全事故應急預案管理辦法》(國家安全生產監督管理總局令第88號)等指導文件編製《安全生產事故應急救援預案》及《不可抗力自然災害應急預案》等風險管理文件。該等風險管理文件對經營區域內發生的洩漏事故、火災事故、爆炸事故、不可抗力等各類重大事故制訂了應急預案和現場應急處置方案，並明確了事前、事發、事中、事後的各個過程中相關部門和有關人員的職責。

The Group continues to improve its risk management system, particularly risk management of oil and gas leakages, which is the top priority of environmental management. The Group has stipulated that each subsidiary shall formulate the “Policy of Emergency Rescue Management System” according to their own business characteristics, including formulating Emergency Response Plans (“ERP”), and organising emergency trainings and annual emergency drills. Each ERP is reviewed and approved by the Safety Supervision Department of the Group to ensure that accidents are handled quickly and effectively, and the impacts of the accidents are kept to a minimum. Baccalieu has designed an emergency plan based on the HSE to ensure that environmental emergency operations can be carried out promptly and orderly in the event of an accident. As a member of the Spill Co-ops, a spill emergency response cooperation, Baccalieu often liaises closely with several agencies to ensure that Baccalieu can mobilise resources in a timely manner and conduct collaborative rescues with agencies when spills or other emergencies occur.

In the event of an emergency, the 24-hour on-duty personnel of the Group’s station will cut off the gas supply at the station, notify upstream distribution station to suspend transmission, and notify downstream users about the incident. The Group’s chief safety officer — general manager will initiate the emergency plan instructions. The company’s operation and management department organizes operations personnel to conduct emergency rescue. In the case of insufficient manpower, the Group’s engineering project department organises the Group’s construction team personnel to provide emergency support. According to the severity of the incident, the general manager of the Group reports to the local gas authority, the urban management bureau, the emergency management department and the relevant government departments to request support. After completing the rescue mission, the supply of gas will be resumed under safe conditions.

In response to the COVID-19, the Group strengthens safety management and risk prevention. The Group strictly restricts employees from travelling to areas with newly confirmed cases, asymptomatic cases, or suspected cases and requires companies in the vicinity of affected areas to strictly implement local governments’ epidemic prevention and control requirements. Where exposure to people from medium-risk areas is necessary for business purposes, relevant companies will comprehensively identify and control the risks of direct or indirect contact between employees and relevant personnel, strengthen protection for the employees, strictly implement local epidemic prevention requirements, monitor the epidemic situation and provide early warnings, and track the employees’ travel records. If an employee has a fever or other symptoms, they are asked to visit the fever clinic of their nearest medical institution without delay. The Group requires all its subsidiaries to increase infection prevention and control supplies such as masks and disinfectants based on their needs to ensure that the supplies can be used immediately in any case of emergency.

集團持續完善其風險管理制度，尤其重視石油天然氣洩漏的風險管理，視之為環境管理的重中之重。集團規定各附屬公司按自身業務特點制定《應急救援預案管理制度》，包括設計應急預案（[ERP]），舉辦應急培訓及年度演練計劃等，ERP需通過集團安全監察部作最後審核和批准，確保事故發生後迅速有效應對，將事故影響降至最低。Baccalieu公司根據HSE守則設計應急預案，確保緊急事件發生時能迅速有序地開展環境應急行動。同時，Baccalieu公司作為Spill Co-ops洩漏應急合作社的成員，經常透過合作社與個別機構保持緊密聯繫，確保發生重大洩漏事件或其他緊急情況時，Baccalieu公司能及時動員四海，發揮協作力量應急救援，攜手對抗緊急事故。

遇突發事故時，集團場站24小時值班人員第一時間切斷場站供氣，通知上游分輸站停止分輸，通知下游用戶緊急停氣，由集團安全第一負責人總經理下達啟動應急預案指令。公司運營管理部組織運營人員進行搶險，如人力不足時，由集團工程項目部組織集團施工隊人員進行緊急支援。根據事件的嚴重程度，集團總經理向當地燃氣主管部門、城管局、應急管理部門和相關政府部門進行匯報，請求支援。完成搶險任務後，在安全的情況下恢復生產。

針對2019新型冠狀病毒，集團加強安全管理和風險防範。集團嚴格管控人員前往有新增確診病例、無症狀感染者和疑似病例的地區，要求臨近疫情地區的公司要嚴格落實當地政府的疫情防控要求。對於因業務需要與中風險區域人員接觸的情況，相關公司會全面識別和管控員工與相關人員直接或間接接觸的風險，加強員工的防護，嚴格落實當地的防疫要求，做好疫情信息預警監測和員工軌跡追溯工作。員工如出現發熱等症狀，要及時到就近的醫療機構發熱門診進行診療。集團要求各所屬公司結合實際需求增加口罩、消毒液等防控物資的儲備，確保緊急情況下能馬上投入使用。

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5. EXCEPTIONAL QUALITY

The Group persistently operates with integrity and strictly follows national and operating location-specific standards, and strives to elevate the standard of the operational management system toward perfection. The Group strives to optimise procurement management, enhance the quality of products and services and actively boost the level of customer satisfaction in various aspects. Concurrently, the Group strictly complies with the laws and regulations relating to the protection of customer privacy, advertising, labels and intellectual property rights.

5.1 Quality of Products

In order to ensure product quality, the Group demands all upstream gas suppliers to supply gas meeting the National Class 1 or Class 2 standard. In order for the Group to monitor the quality of natural gas effectively, all gas suppliers are required to provide periodical gas quality reports and specify gas composition in contracts. Subsidiaries formulate policies and regulations based on their business characteristics. For example, the quality of LNG produced and supplied by LNG processing plants must meet policies and regulations such as the “General Characteristics of LNG” and “Quality Assessment Criteria for Import and Export of LNG”; the quality of CNG supplied by CNG filling stations must meet the requirements of “Compressed Natural Gas for Vehicles”. To ensure product quality, Shandong Qizhi Equipment sends all pipes to the Binzhou Special Equipment Testing Institution for inspection before they are sold. Currently, Shandong Qizhi Equipment and other affiliated companies of the Group are certified with the ISO 9001 Quality Management System.

The Group implements restrictions on sales and credit, and eliminates the use of false and misleading statements in the process of product promotion and trading. In addition, the Group pledges not to infringe others’ intellectual property rights, patents, copyrights and other rights and interests and formulated the “Trade Secret Management Regulations” to regulate confidentiality and intellectual property management.

During the year, the Group did not recall any products for safety and health reasons, and was not aware of any material non-compliance with relevant laws and regulations concerning health and safety, advertising, labelling and privacy matters relating to products and services and methods of redress that would have a significant impact on the Group, including but not limited to Law of the People’s Republic of China on Protection of Consumer Rights and Interests, Product Quality Law of the People’s Republic of China, Advertising Law of the People’s Republic of China, Trademark Law of the People’s Republic of China, Patent Law of the People’s Republic of China and Personal Information Protection Act of Alberta, Canada.

5. 打造卓越品質

集團堅持誠信經營，嚴守國家與營運所在地的各項標準和要求，抱著力臻完美的決心提升營運管理水平。集團努力優化採購管理，積極提升產品與服務的質量，於多方面積極提高客戶的滿意度。同時，集團嚴格遵守有關維護客戶私隱、廣告、標籤及知識產權等的法律法規。

5.1 產品質量

為保證產品的質量，集團要求上游氣源供應商提供的管道天然氣品質需符合國家標準《天然氣》中的一類氣或二類氣標準。為更有效監控天然氣的質量，集團要求氣源供應商定期提供氣質報告，並於供氣合同中列明氣體成分。各附屬公司亦會因其業務特性，制定相關的標準制度。例如LNG加工廠生產供應的液化天然氣品質需滿足《液化天然氣的一般特性》、《進出口液化天然氣品質評價標準》等的國家及行業標準；CNG加氣站供應的壓縮天然氣品質需滿足《車用壓縮天然氣》的規定等。此外，山東齊智設備為確保產品質量，於管道產品出售前均安排送往濱州市特種設備檢測所進行檢驗。目前，山東齊智設備等集團附屬公司擁有ISO 9001質量管理體系認證。

集團落實執行銷售和信用管制，杜絕在產品宣傳和交易過程中使用虛假及誤導性說明的行為。另外，集團已制定《商業秘密管理規定》，以規範保密及知識產權管理工作，承諾不侵犯他人知識產權、專利權、版權等權益。

於本年度，集團並無因安全與健康理由而須召回產品，亦並不知悉任何嚴重違反與產品及服務相關的健康與安全、廣告、標籤及私隱事宜以及補救方法有關的法律及法規而對集團造成重大影響的情況，包括但不限於《中華人民共和國消費者權益保護法》、《中華人民共和國產品質量法》、《中華人民共和國廣告法》、《中華人民共和國商標法》、《中華人民共和國專利法》及加拿大阿爾伯塔省的《個人資料保護法》。

5.2 Excellent Services

The Group has always been committed to providing excellent customer services and established a comprehensive "Customer Complaint Management System". Customers can either provide feedback or complaints through communicating with lobby managers, a 24-hour complaint hotline, fax, suggestion boxes, opinion books, company website, etc. at any given time. During the year, the Group did not receive any complaints about its products and services. A standardised complaint handling procedure is followed by our customer service team once a complaint is received. Should employees handle complaints in an improper manner such as ignoring customer complaints, stalling complaint processing times without valid reasons, hiding customer complaints, fabricating false information and not reporting or taking measures promptly following a major incident, the responsible employee(s) shall be disciplined. In addition, the relevant personnel handling the complaints shall be responsible for keeping the customer information and complaints confidential.

Each subsidiary has set up dedicated task force to actively communicate with customers and provide comprehensive troubleshooting services, achieving the goal of "responding whenever reports are received, providing the best solutions to the problem" and hence satisfying the needs of customers. To ensure service quality, emergency repairmen set off within 5 minutes after receiving gas leakage accident warnings and arrive at the sites within 30 minutes.

5.3 Protection of Customer Privacy

The Group attaches great importance to the protection of customer privacy and handles customer information with caution. The Group has formulated internal regulations on confidentiality management, under which information is managed according to its level of confidentiality. The Group strictly prohibits employees from improper access and use of confidential information. Disclosure of customer privacy or confidential information is strictly prohibited in private conversations and in public places, unless prior approval is received from customers. The Group continuously optimises information management and improves employees' awareness of information security to ensure that customer information and privacy is handled in a proper and secure manner.

5.2 服務周到

集團一向致力提高客戶服務水平，並制定完善的《客戶投訴管理制度》，客戶可通過大堂經理、24小時投訴電話、傳真、意見箱、意見簿、公司網站等渠道，於任何時候對產品和服務提出意見或進行投訴。於本年度，集團並無接獲任何關於產品及服務的投訴。如收到客戶對產品或服務提出的不滿或投訴，各附屬公司的客戶服務部會啟動規範化的客戶投訴處理程序，如發現忽視客戶投訴、無故拖延投訴處理時限、隱瞞客戶投訴、編造虛假資訊、重大事件發生時未有及時報告或採取措施等情況，將會處分負責的員工。此外，對於客戶資訊及投訴內容，處理客戶投訴的相關人員負有保密責任。

各附屬公司同時成立客戶專責小組，積極與客戶溝通，並提供全天候的故障報修服務，做到「有報必到，修必修好」，滿足客戶所需。為確保服務質素，搶修人員需要在接到燃氣洩漏事故警報後的5分鐘內出發，在30分鐘內到達現場處理。

5.3 保障客戶私隱

集團高度重視客戶私隱保護，謹慎處理客戶信息。集團已制定內部保密管理的規定，就資料的保密程度分級管理。集團嚴禁員工不當存取及使用保密資料，除非事先得到客戶批准，員工不可在私人交往和通訊中提及客戶資料，或在公共場所談論集團商業秘密。集團不斷優化信息管理，持續提升員工的信息安全意識，確保客戶信息和私隱得到妥善的保護和管理。

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6. DEDICATION TO GREEN DEVELOPMENT

Climate change has caused major environmental and social impacts on today's society. In order to cope with the rapid deterioration of the environment and ecosystem, the Group is dedicated to promoting the green business, aiming for the balance of long-term corporate development, economic interests and environmental protection, and improving itself to be an outstanding and sustainable corporation. Moreover, to fulfil corporate social responsibility, the Group never ceases to listen and respond to the ever changing needs of stakeholders and strives to protect the environment at all times.

6.1 Environmental Management

Environmental management is an inseparable part of the Group as its core business is supply and distribution of gas. The Group strictly complies with environment-related laws and regulations and industry standards in the PRC and other locations of operation, such as the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on Environmental Impact Assessment, and the respective federal and provincial laws and regulations in Canada and Alberta. Baccalieu has developed a Corporate Safety Management System and meets and outperforms the regulations relating to the extraction, storage, and sale of oil and natural gas set forth in Canada and Alberta, whilst adhering to the regulations issued by the Alberta Energy Regulator ("AER"). Shandong Qizhi Equipment and other affiliated companies of the Group, are certified with the ISO 14001 Environmental Management System.

During the Reporting Period, the Group was not aware of any material non-compliance with relevant laws and regulations relating to air and greenhouse gas ("GHG") emissions, discharges into water and land, and generation of hazardous and non-hazardous waste that would have a significant impact on the Group, including but not limited to Environmental Protection Law of the People's Republic of China, Law of the People's Republic of China on the Prevention and Control of Water Pollution, Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution, Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste and Environmental Protection and Enhancement Act of Alberta, Canada.

6. 深耕綠色發展

氣候變化為現今社會帶來重大的環境及社會問題。為應對環境及生態系統的急劇惡化，集團致力推動綠色事業，以平衡企業的長遠發展、經濟利益及環境保護為目標，使集團成為可持續發展的優秀企業。與此同時，集團細心聆聽各利益相關方的訴求，積極回應利益相關方不斷變化的需要，力求時刻保護環境，勇於承擔企業社會責任。

6.1 環境管理

集團作為一間以燃氣供應銷售為主營業務的企業，環境管理是企業立足之本。集團嚴格遵守中國及其他營運所在地有關環境保護的法律法規和行業標準，例如《中華人民共和國環境保護法》、《中華人民共和國環境影響評價法》、加拿大聯邦及阿爾伯塔省級法律法規等。Baccalieu 公司制定企業安全管理制度 (Corporate Safety Management System)，務求符合並高於加拿大聯邦及阿爾伯塔省級有關石油和天然氣開採、儲存和出售的規定，同時亦恪守阿爾伯塔能源監管機構 (AER) 頒佈的各項規定。山東齊智設備等集團附屬公司擁有 ISO 14001 環境管理體系認證。

於本年度，集團並不知悉任何嚴重違反有關空氣及溫室氣體 (「溫室氣體」) 排放、向水及土地排污以及有害及無害廢棄物的產生的法例及法規而對集團造成重大影響的情況，包括但不限於《中華人民共和國環境保護法》、《中華人民共和國環境保護法》、《中華人民共和國水污染防治法》、《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》及加拿大阿爾伯塔省的《環境保護與改善法》。

6.2 Air Emissions Control

The Group perseveres in promoting the concept of environmental protection and works towards development in green, low-carbon, environmental protection and energy saving aspects. As the Group is concerned about the air emissions generated from its business operations, it has established a monitoring system and used advanced technologies to control emissions. From 2022 onwards, the Group will optimise its processes and phase out outdated equipment in a timely manner to reduce emissions of air pollutants. Regarding the emissions of air pollutants, low-energy and high-efficiency equipment is used in the production of LNG processing plants, such as the use of 13X molecular sieves to adsorb the small amount of water and carbon dioxide in natural gas, the use of expansion cooling technology to reduce energy input and the use of a simplifying processing system to reduce reliance on heating furnaces. In addition, Baccalieu is dedicated to implementing emission controls according to air pollution emission standards from the AER Directive 60 for oil wells and facilities of upstream companies in the oil industry.

The Group upholds the concept of green development and is wary of GHG emissions. From 2022 onwards, the Group will actively respond to the government's emission reduction targets and strive to achieve peak carbon emission and emission reduction within the target period. Baccalieu continues to closely monitor GHG emissions to ensure compliance with federal and provincial laws and regulations, as well as regulations issued by the AER. The main sources of Baccalieu's GHG emissions are combustion of vent flares during crude oil extraction, natural gas consumption, electricity use, methane emissions from oil storage tank venting, pneumatic instruments, and compressor seals, and liquefied petroleum gas consumption. In response to potential methane leakage risks, Baccalieu strictly complies with AER directives on upstream oil industry emissions, and conducts annual measurements, inspections and submission of relevant reports to ensure gas safety and reduce GHG emissions. In addition, the main sources of LNG processing plants' GHG emissions are use of electricity, natural gas boilers, vehicles and refrigerants. In order to save energy and reduce consumption, advanced technologies are used in the LNG processing plants to recycle flash gas generated during the liquefaction of natural gas. Since the main component of flash gas is methane, direct emissions are potentially hazardous and are a form of energy wastage. In view of this, the LNG processing plants have commenced the recovery of flash gas and the transfer of this gas with other expanded gas to municipal gas pipeline networks. In addition, the Group pays close attention to international trends and actively seeks for lower carbon, more energy-saving and environmentally-friendly technologies to achieve the goal of sustainable development. Through the implementation of the above-mentioned measures, employees' awareness of reducing GHG emissions has increased.

Baccalieu's hydrocarbon combustion increased significantly in 2021 compared to 2020. The growth was because Baccalieu conducted flowing tests and cleanups on a new gas well in November 2021 to reduce the nitrogen content of the gas sold.

6.2 空氣治理

集團始終堅持環保理念，推進綠色、低碳、環保及節能的發展方向。集團關注業務營運中大氣污染物的排放情況，建立完善的監測系統並積極利用先進技術控制排放。自二零二二年起，集團會優化工藝流程，適時淘汰落後設備，減少大氣污染物排放。針對大氣污染物排放，LNG加工廠於液化天然氣的生產過程中積極投入能耗低且效能高的設備，如採用13X分子篩吸附天然氣中少量的水分和二氧化碳；採用膨脹製冷工藝減少能源投入，透過簡化處理系統減少對加熱爐的依賴。此外，Baccalieu公司根據AER指引60 (AER Directive 60) 執行石油上游企業油井及設施省級標準中對大氣污染物的排放標準，致力控制排放。

集團秉持綠色發展理念，關注集團溫室氣體的排放情況。自二零二二年起，集團會積極響應並配合政府的減排計劃目標，力爭於目標期內完成碳達峰及減排任務。Baccalieu公司一直密切監察溫室氣體的排放，確保其排放符合聯邦及省級法律法規以及AER頒佈的各項規定。Baccalieu公司所產生的溫室氣體排放主要來自於原油開採過程中放空火炬的燃燒、天然氣消耗、電力使用、由儲油罐通風口、氣動儀器和壓縮機密封件產生的甲烷排放以及液化石油氣消耗。針對潛在的甲烷洩漏風險，Baccalieu公司嚴格遵守AER有關上游石油工業排放的指令，並進行年度測量、檢查及提交相關報告，以確保燃氣安全及減少溫室氣體排放。另外，LNG加工廠所產生的溫室氣體排放主要源於電力、天然氣鍋爐、車輛及制冷劑使用。為實現節能減耗，LNG加工廠使用先進的技術回收於天然氣液化過程中產生的閃蒸氣體，其主要成分為甲烷，直接排放既存在潛在的危險，亦是一種能源的浪費。有見及此，LNG加工廠開展回收閃蒸氣體工作，使其隨膨脹氣體回送城市燃氣管網。此外，集團時常留意國際動向，積極尋找更低碳、節能及環保的技術，帶領企業實現可持續發展的目標。通過實施上述措施，員工對減少溫室氣體排放的意識得以提高。

相較二零二零年，Baccalieu公司的碳氫化合物燃燒量大幅上升。升幅是由於Baccalieu公司於二零二一年十一月對一口新氣井進行了流動測試和清理，以降低銷售氣體的氮含量。

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6.3 Handling of Waste

The Group strictly monitors waste generated in its daily operations and handles it in accordance with local laws and regulations. Through a comprehensive waste management system, the Group implements source and process control to reduce the disposal of land-borne and water-borne wastes. Generated hazardous wastes are sent to qualified treatment facilities for further handling. Other types of wastes are also disposed in accordance with national and location-specific discharge standards. With regards to gas pipe installations, the Group strictly monitors the management and handling of waste generated from construction sites. Qinghai Hongli strictly implements waste management policies according to the Code of HSE, including: 1) Domestic waste and industrial waste shall be treated separately, and the recyclables such as plastic bags, water bottles, etc. shall be sorted and collected; 2) Particulates shall be cleaned from pipelines prior to their full operation, waste products generated from the use of anticorrosive materials in repairing pipelines shall be removed and waste sand generated by sandblasting and rust removal shall all be collected and treated; 3) Specific recycling equipment shall be set up to collect liquid wastes such as industrial oil, used oil, antifreeze and sewage, which shall then be transported to a specialised treatment plant for processing; and 4) Other domestic waste shall be sent to designated disposal sites near construction sites. If there are no disposal sites near construction sites, domestic waste shall be buried in permitted landfills to a depth of at least 1-meter. Since most of the Group's construction projects involved external contractors, it is difficult to quantify the amount of waste generated from operations across construction sites. Therefore, the corresponding data from external contractors cannot be reflected in this report. In the future, the Group will establish a data collection system for the handling of construction waste.

Baccalieu strictly enforces waste disposal requirements set in the Code of HSE regarding processes in light crude oil extraction in Alberta, Canada. Oil-based drill cuttings and water-based drill cuttings generated during the extraction, as well as solid and liquid waste generated in storage tank areas, are required to be stored according to the Alberta Transportation Guidelines, treated according to the AER regulations and subsequently transported to government approved landfill sites. In addition, Shandong Qizhi Equipment, which specialises in the manufacture of gas pipelines, instrumentation, and pipeline-related products, mostly generates polyethylene pipe waste during its operations and all pipe waste are regularly recycled by a qualified third party.

6.3 廢物處理

集團嚴格監控日常營運中所產生的廢棄物，並按照國家及營運所在地的法律法規進行處理。集團通過完善的廢棄物管理，實行源頭治理和過程控制以減少向土地和水體等排放廢棄物。集團營運中產生的危險廢棄物均委託有資質的單位進行處理，其他廢棄物亦按照國家及營運所在地的排放標準進行處理。在燃氣管道鋪設工程方面，集團嚴格監管施工現場廢棄物的管理和處置。青海宏利嚴格執行集團HSE管理文件中有關廢棄物管理的政策，包括：1) 生活垃圾與工業廢棄物分開處理，對可再利用的廢棄物如塑料袋、礦泉水瓶等分類收集並統一回收；2) 管道投產及清管作業清出的污物、施工現場對管線進行防腐補口時產生的廢棄防腐材料、噴砂除銹產生的廢砂等，均需進行集中回收處理；3) 設置專用回收裝置收集施工過程中產生的工業油污、廢機油、防凍液和污水等廢液，並運到專門處理廠進行處理；及4) 其他生活垃圾送到施工現場附近指定的處理場。如無處理場，生活垃圾會被埋入當地有關部門許可的填埋地，並保證填埋深達到1米或以上。由於集團大部分的建設工程均聘請外部承包商，故難以對工程產生的廢棄物數量作出統計，因此有關數據未能在本報告反映。未來，集團將建立工程廢棄物排放數據收集體系。

Baccalieu公司在加拿大阿爾伯塔省的輕質原油開採過程中，嚴格執行HSE守則中關於廢棄物處理的要求。對於開採過程中產生的油基鑽屑和水基鑽屑以及儲油罐區產生的廢棄物和廢液等，均需按照阿爾伯塔省運輸準則(Alberta Transportation Guidelines)進行儲存以及按AER頒佈的各項規定進行處置，方可運輸至核准的省政府填埋場。此外，山東齊智設備專營燃氣管道、儀表及管道相關產品的製造，營運過程中主要產生的廢棄物為聚乙烯管材廢料，山東齊智設備將管材廢料定期交由合資格的第三方回收處理。

Wastes generated in the daily operation of the Group's offices, including paper, batteries, ink cartridges and other recyclables, are collected by property management companies for recycling. Other office wastes are disposed of by local municipal departments. Sewage generated from the office are discharged directly to the municipal pipe networks without polluting local water resources. From 2022 onwards, the Group will actively encourage staff to recycle office supplies such as paper to reduce waste emissions. In contrast to the traditional paper-based office, the Group has implemented an Office Automation System to minimise paper waste; it encourages employees to use duplex printing and to use environmentally-friendly papers to print publications and leaflets; unused leaflets are stored for later use and other related measures are taken to save resources.

Compared to 2020, the Group produced less water-based drilling cuttings but higher oil-based drilling cuttings in 2021. This is because some water-based drilling cuttings have been stored together with oil-based drilling cuttings, and they will be disposed of together after it receives a permit for discharge of oil-based drilling cuttings. In addition, the Group's battery and waste paper emissions in 2021 were also higher than that of in 2020. The increase is due to the fact that the Zhuhai head office has incorporated the relevant environmental data of China City Natural Gas Investment Group Co. Limited during the year.

集團辦公室收集日常營運中產生的廢棄物，包括廢紙、廢電池、廢墨盒等可循環再利用的廢棄物交由物業管理公司回收處理，其他的辦公室垃圾則由當地市政部門統一處置。辦公室產生的生活污水直接排入市政管網，堅持不讓排放物污染當地的水資源。自二零二二年起，集團會積極鼓勵員工循環使用紙張等辦公用品，減少廢棄物排放。集團推行電子辦公系統以取代傳統的紙張化辦公；鼓勵員工雙面打印紙張、使用環保紙張打印出版物和宣傳單；將未發放的宣傳單留作下次使用等節約資源措施。

相較二零二零年，集團二零二一年所產生的水基鑽屑較少，而油基鑽屑則較高。這是由於部分水基鑽屑已與油基鑽屑合併存放，於統一獲取油基鑽屑排放許可後一併處置。此外，集團二零二一年的電池及廢紙排放量亦較二零二零年高。升幅是由於本年度珠海總部已新增併入中油中泰燃氣投資集團有限公司相關環境數據。

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6.4 Utilisation of Resources

The Group places the good use of resources at the core of its business and it constantly reviews its management of natural resources; it also pays strong attention to source control to enhance the efficiency of resource usage. From 2022 onwards, the Group will improve the efficiency of resource consumption by promoting water and electricity conservation and the use of energy-efficient equipment by employees. During the year, no violations of laws and regulations relating to resource usage at the federal, provincial and AER level were reported in Baccalieu. During Baccalieu's operation of crude oil wells and battery sites, natural gas is the major energy resource used, followed by electricity and liquefied petroleum gas ("LPG"). In addition, Baccalieu recycles and treats wastewater from hydraulic fracturing during light oil exploit works, and subsequently reuses treated wastewater from oil and natural gas extraction to both reduce the use of water and reduce the generation and storage of wastewater. Baccalieu also pledges that 100% of wastewater is recycled in crude oil well areas. The Group did not encounter any problem in sourcing water that was fit for purpose.

6.4 善用資源

集團以善用資源為核心，時刻審視天然資源管理制度，同時重視源頭管控，提升資源使用效率。自二零二二年起，集團會通過倡導員工節約用水、節約用電以及使用節能設備等方法提高資源耗用效率。本年度，Baccalieu公司並無發現違反聯邦及省級及AER頒佈有關資源使用的法律法規。在營運石油井區及儲油罐區過程中，Baccalieu公司主要的資源使用為天然氣，其次為電力和液化石油氣（「LPG」）。同時，Baccalieu公司會對輕質石油開採過程中水力壓裂產生的廢水進行回收處理，並重複利用於萃取石油及天然氣的過程中，既可減少水資源使用，亦可減少廢水量的產生及儲存。Baccalieu公司亦承諾在石油井區的污水回收利用率是100%。集團在獲取適用水資源時並無遇到任何問題。



Recycling wastewater from hydraulic fracturing
對水力壓裂產生的廢水進行回收處理

Qinghai Hongli requires employees to turn off the power supply of mechanical equipment to reduce energy consumption during intermittent periods of operation. With regard to the daily operation of its offices, the Group has installed energy saving features such as T5 fluorescent lamps and light-emitting diode ("LED") lamps in offices, and has installed water-saving faucets, dual flush urinals and water closets in the washrooms. Moreover, the Group promotes a green office and encourages employees to turn off their computers, printers, lights, drinking fountains and other equipment during non-office hours. The temperature of air-conditioning is controlled at approximately 25 degrees Celsius. Messages are communicated via emails, posters, the intranet and other means to conserve resources. Through the implementation of the above-mentioned measures, employees' awareness of energy and water conservation has increased.

Compared to 2020, the Group's LPG consumption rose substantially in 2021. The increase was due to Baccalieu's use of LPG to operate pumping units in 2021 as some of its well sites were not connected to utility power. The Group's water consumption in 2021 was also higher than that in 2020. The rise was due to an increase in the number of wells drilled and completed by Baccalieu from 3 in 2020 to 11 in 2021.

6.5 Caring for the Environment

As a responsible energy company, the Group has always attached importance to the protection of the environment and endeavors to eliminate major environmental pollution and damage to the ecological environment. Qinghai Hongli implements the measures listed below to protect the local ecological environment and to avoid environmental pollution at construction sites: 1) Piles of soil which cannot be transported immediately during excavation are covered with dust nets and sprayed with water to suppress dust emission; 2) For construction projects located in areas with vegetative cover, trees and turf are transferred with protection and replanted after the construction process; 3) Soil in situ are used for backfilling after the construction work to maintain the characteristics of landforms. Extra soil is taken from the facilities prescribed by the local authorities for backfilling; 4) During sidewalk construction, mud sedimentation tank is set up to prevent mud water from entering the river; 5) Crossover or directional drilling techniques are used for the construction of river courses; 6) When repairing mechanical equipment at construction sites, mats are placed under mechanical equipment to prevent oil, lubricant or other materials from infiltrating into soil or water; and 7) Education relating to water and soil conservation are provided to construction workers to increase their awareness. Baccalieu has also adopted environmental protection measures during oil extraction, which mainly includes the use of batch drilling technology to reduce the number of machines engaged with drilling, reduce the frequency of drilling, and avoid largescale land destruction. Baccalieu also pledges not to operate in ecologically vulnerable areas.

青海宏利要求員工在各機械設備間斷性施工期間，及時關閉其電源以減少能源消耗。日常辦公室營運方面，集團安裝T5熒光燈及發光二極管([LED])燈具等節能設備，並於衛生間安裝具有節水功能的水龍頭、雙沖水的小便器和馬桶等。同時，集團倡導綠色辦公，鼓勵員工在非辦公時間關閉電腦、列印機、電燈、飲水機等設施，並將空調溫度控制於約攝氏25度，以及透過電郵、海報、內聯網等方式，呼籲節約資源。通過實施上述措施，員工對節約能源和節約用水的意識得以提高。

相較二零二零年，集團二零二一年的LPG消耗量大幅上升。升幅是由於Baccalieu公司二零二一年有部分井場未有連接公用電力，因此需使用LPG以運作井場抽油機。而集團二零二一年的用水量亦較二零二零年高。升幅是由於Baccalieu公司二零二一年進行鑽探及完成的油井數量由二零二零年的3口增至11口。

6.5 愛護環境

作為負責任的能源企業，集團一直重視環境保護，致力杜絕重大環境污染和生態破壞事故的發生。對於施工項目，青海宏利採取以下措施保護當地生態環境，避免施工現場發生環境污染：1)開挖作業時對不能及時運走的堆土進行防塵網覆蓋，現場進行灑水降塵；2)植被覆蓋地作業時，對林木、草皮覆蓋層等進行保護性轉移，待施工完畢後進行種植；3)施工完畢後盡量使用原土回填，保證地貌的原有性，額外回填的泥土需在當地有關部門規定的取土場上取土；4)人行道施工時，充分考慮環保要求，設置剩餘泥漿沉澱池，防止泥漿水進入河道；5)遇河道施工時，採用隨橋跨越或定向鑽技術；6)在施工现场進行機械設備維修時，需在機械設備下鋪墊以防燃油、機油、潤滑油或其他材料流入土壤或水中；及7)各施工單位對職工進行水土保持知識教育，提高員工水土保持的意識。Baccalieu公司在石油開採過程中亦採取有關環境保護的措施，主要包括：使用批量鑽井技術以減少投入鑽井的機械，減少鑽土次數和避免大面積的土地破壞。同時，Baccalieu公司承諾不在生態易受破壞的地區運作。

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(continued) (續)

Regarding noise pollution, equipment such as compressors, expanders, pumps, etc. generate a certain level of noise during LNG's production processes. The Group compiles construction plans for urban pipelaying operations for the prevention and control of noise pollution. The measures taken mainly include, installation of silencers at the point of noise emission; regularly conducting occupational hazard assessments by qualified institutions and providing annual occupational health checks to employees exposed to noise hazards; prioritising and arranging the ordering of construction sections according to traffic conditions; fencing construction sites; banning the use of equipment which generate high volumes of noise at rest hours during the day and at night; and making traffic adjustment plans and announcement plans.

6.6 Climate Change

The Group recognises the need to take actions as climate change poses escalating risks and challenges to the global economy. We have implemented the "Climate Change Policy" to establish the Group's management approach for climate change mitigation, adaptation and resilience. Based on the international recommendations of the Task Force on Climate-related Financial Disclosures created by the Financial Stability Board, the Task Force has assessed and recognised the climate-related risks and corresponding opportunities that affect the Group's businesses. We will continuously monitor climate change in the regions where we operate and take timely measures in our daily business operations to reduce the risks associated with such fluctuations. The climate-related risks we identified fall into two categories:

Physical Risks: The Group operates its businesses in the interior of Canada and across the PRC. Due to its geographical location, the Group's operating assets, such as gas pipelines, gas facilities and plants, may be damaged by extreme weather events such as rainstorms and floods, which may threaten the safe and stable gas supply, increase operating and maintenance costs and add to insurance investment. As a response, the Group will continuously strengthen the maintenance management and safety assurance of the gas pipelines. Close attention will be paid to the latest weather information and recommendations from the local government, and contingency plans will be formulated for extreme weather conditions. In the event of any extreme weather event, the Group will arrange maintenance staff to the disaster area for emergency response in accordance with the work deployment to prevent and control flood and safeguard resource supply and people's safety, and strengthen the early warning and emergency response, in order to minimise or avoid property damage when extreme weather affects the Group's business premises.

環境噪音方面，在LNG生產過程中，壓縮機、膨脹機、泵等生產設備運行會產生一定強度的噪音，針對噪音污染的防治，集團編製城區敷管作業施工方案，措施主要包括：於噪音排放源加裝消音器等設施；定期請有資質的機構做職業病危害因素檢測，對接觸噪音危害的人員提供年度職業健康檢查；在方案中根據各路段的交通情況協調各施工段的先後順序；對施工場地進行圍封；嚴禁高噪聲設備在夜間和中午休息時間使用；並做好交通調整計劃、公告計劃等。

6.6 氣候變化

氣候變化為全球經濟帶來的風險和挑戰不斷升級，集團意識到採取行動的必要性。我們已實施《氣候變化政策》以定立集團對減緩、適應和抵禦氣候變化的管理方針。根據金融穩定委員會成立的氣候相關財務信息披露工作組的國際建議，工作小組已評估並認識到對集團業務有所影響的氣候相關風險及相應的機遇。我們會持續監測我們經營所在地區的氣候變化，並在日常業務營運中及時採取措施降低與該等波動變化相關的風險。我們識別的氣候相關風險可分為兩大類：

實體風險：集團的營運地點位於加拿大的內陸地區及橫跨中國。受地理位置影響，集團的營運資產，如輸氣管網、燃氣設施、工廠等，有可能會因暴雨及洪水等極端天氣事件而遭到破壞，使安全穩定供氣受到威脅，也會使營運及維護成本增加以及保險投資增加。作為應對措施，集團會持續增強燃氣管網的維護管理與安全保障。我們亦會密切關注當地政府發佈的最新天氣消息及建議，制訂針對極端天氣狀況的應急計劃。如發生任何極端天氣事件，集團會按照防汛度汛、保供保安全的工作部署，安排維修人員到達災區進行應急處置，並強化預警預報和應急處置，以在極端天氣影響集團經營場所時減少或避免財產損失。

CASE 案例：

Preventive Measures against Climate Change

In order to cope with possible flood disasters, the Group's subsidiary has purchased flood rescue boats and organised training on flood rescue boat driving skills for members of the repair and maintenance team to improve flood-fighting and rescue capabilities. In the meantime, it assumed social responsibilities and actively participated in social rescue.

應對氣候變化的預防性措施

為應對可能發生的洪水災害，集團分公司已購置衝鋒舟，並為維修搶修隊員開展衝鋒舟駕駛技能培訓，提升抗洪搶修救援能力，同時承擔起社會責任，積極參與社會救援。



Transition Risks: In order to achieve sustainable development, local governments have successively enacted climate-related legislation or tightened regulations to support the global decarbonisation vision. For instance, Canada will roll out a climate plan to take the lead in capping pollution from the oil and gas sector to achieve net-zero emissions by 2050. The PRC government will also scale up its intended nationally determined contributions and strive to peak carbon dioxide emissions by 2030 and achieve carbon neutrality by 2060. With the tightening of relevant policies, the Group will be subject to restrictions on carbon emissions, which may lead to an increase in compliance costs and operating costs. In order to mitigate the impact of relevant policies on the Group, we will regularly monitor existing and emerging trends and policies related to climate, strengthen communication with regulatory authorities, adjust our risk management measures in a timely manner, reasonably arrange project development and construction, improve the compliance and quality in emissions and climate change disclosures, and regularly exchange views on climate-related issues with different stakeholders to avoid reputational risk due to slow responses.

轉型風險：為實現可持續發展，各地政府相繼制訂氣候相關立法或收緊法規，以支持全球脫碳願景。例如加拿大將推行氣候計劃，率先對石油和天然氣行業的污染設限封頂，爭取二五零年實現淨零排放。而中國政府亦將提高國家自主減排貢獻力度，力爭於二零三零年前碳達峰，二零六零年前實現碳中和。隨著相關政策的收緊，集團也將受到有關碳排放的限制，可能導致合規成本及營運成本的增加。為減輕相關政策對集團的影響，我們將會定期監測與氣候有關的現有及新興趨勢和政策，加強與各監管部門的溝通聯繫，及時調整公司風險管理辦法，合理安排工程開發與項目建設，提高其在排放及氣候變化披露方面的合規性及質素，並定期與不同利益相關方就其對氣候相關問題的觀點進行溝通，以避免因反應遲緩而導致的聲譽風險。

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7. CARING FOR EMPLOYEES

The Group values employees as our most valuable assets and is devoted to protecting the rights of our labour and actively strives to improve employee welfare. The Group has established a diverse work team, respects employees from different cultural backgrounds and protects their privacy. The Group hopes to provide employees with an ideal career development pathway, while creating a healthy and pleasant working environment to nurture a rich and warm cultural life.

7.1 Employee Rights

The Group strictly complies with the Labour Law of the People's Republic of China and the Labour Contract Law of the People's Republic of China and has established a comprehensive human resources management system. Employment policies are formally documented in "China Oil and Gas Group Office Administration Manual". The Group takes pride in its diverse work team and adheres to the principle of anti-discrimination. Employees of different races, nationalities, beliefs, genders, ages, marital statuses, and those with special legal protection, are treated equally during recruitment, training, promotion and salary adjustment processes to offer equal opportunities for development. During recruitment processes, the human resources department verifies identity documents of persons to be employed and eliminates the use of child labour. If an employee violates the policies and regulations of the Group or the law, the Group retains the right to terminate the labour contract. The Group provides employees with opportunities for promotion, salary adjustment or reward based on performance and contribution, and provides employees with benefits such as pensions, medical care, work-related injury insurance, maternity insurance, housing funds and holiday expenses in accordance with local laws and regulations.

In terms of working hours, the Group has implemented three types of working hour systems, namely the standard working hours system, the irregular working hours system and the integrated working hours system. Each subsidiary may, after receiving approval from the Human Resources Department, have the flexibility to arrange a suitable working hour system for employees based on their operational characteristics and requirements, and shall resolutely ban forced labour. Each subsidiary must also arrange compensatory time off or overtime pay for employees in accordance with the laws and regulations of the PRC or Canada and the policies of the Group. With respect to holidays, employees are entitled to sick leave, casual leave, marriage leave, bereavement leave, maternity leave, work-related injury leave, annual leave and statutory holidays. During the year, the Group was not aware of any material non-compliance with employment-related laws and regulations relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination and other benefits and welfare that would have a significant impact on the Group, including but not limited to Labour Law of the People's Republic of China, Labour Contract Law of the People's Republic of China and Employment Standards Code of Alberta, Canada.

7. 關注員工需求

集團一直視員工為最寶貴的資產，致力保障員工依法享有勞工權益，並積極爭取改善勞工待遇。集團專注建設多元化的人事團隊，尊重來自不同文化背景的員工，並注重保障員工的私隱。集團期望能為員工提供理想的職業發展，同時營造健康愉快的工作環境，締造豐富溫馨的文化生活。

7.1 員工權益

集團嚴格遵守《中華人民共和國勞動法》、《中華人民共和國勞動合同法》等政策法規，並以此建立完善的人力資源管理制度。僱傭政策正式編製在《中油燃氣集團行政辦公管理手冊》內。集團以多元化的人事團隊為傲，堅守反歧視的原則，在招聘、培訓、晉升和薪酬制定等流程中，堅持對不同種族、國籍、信仰、性別、年齡、婚姻狀況及受特殊法律保護的員工一視同仁，確保所有員工享有平等的發展機會。在招聘的過程中，人力資源部會核實擬錄用人員的身份證件，杜絕僱用童工。如員工違反集團規章制度或違法犯罪，集團有權與其解除勞動合同。集團根據績效和貢獻給予員工晉升、調薪或獎勵的機會，並依照營運所在地的相關法律法規為員工提供養老、醫療、工傷、生育社會保險、住房公積金、過節費等福利。

工作時數方面，集團實行標準工時制、不定時工時制和綜合計算工時制3種工時制度。各附屬公司可根據業務特點和崗位需要，經人力資源部審批並同意後，彈性為員工安排適合的工時制，同時堅決拒絕強制勞工工作。各附屬公司亦須為加班員工安排補休或按國家、集團規定支付加班費。在假期方面，員工依法享有病假、事假、婚假、喪假、產假、工傷假、年假及法定節假日。於本年度，集團並不知悉任何嚴重違反僱傭的相關法例及法規而對集團造成重大影響的情況，包括但不限於《中華人民共和國勞動法》、《中華人民共和國勞動合同法》及加拿大阿爾伯塔省的《勞工法例》。

Child and forced labour are strictly prohibited during the recruitment process as prescribed by laws and regulations. The Group strictly complies with local laws and does not provide employment to children until they reach the legal age to work as defined by the related laws and regulations which will be stated in the following. Personal data such as identification cards will be collected to verify the identity of the interviewee during the recruitment process. No employee shall be compelled to work against his or her will through force or intimidation of any form or be subjected to corporal punishment or coercion of any type related to work. Should violation occur, it will be dealt with in the light of circumstances.

During the year, the Group was not aware of any material non-compliance with child and forced labour-related laws and regulations that would have a significant impact on the Group, including but not limited to Labour Law of the People's Republic of China, Labour Contract Law of the People's Republic of China and Employment Standards Code of Alberta, Canada.

7.2 Platform for Growth

The importance of employee training is emphasised in the Group and we treat talent as the driving force for corporate sustainable development. The Group actively promotes various forms of talent training, lays a development path for employees and actualises the mindset of growing together with employees. The human resources department of the Group sets a well-rounded employee training program each year and provides continuous training and diversified development opportunities for employees.

Thematic courses are provided in each subsidiary for employees in different job positions. During the year, the Group held trainings in production safety management, financial information system, risk management, vocational skills, project management and insurance business to enhance the comprehensive ability of employees.

Safety training is a key part of the Group's training programme. In offering effective and diverse training methods of different levels and types, and adopting various measures, the awareness of safety and responsibilities among employees at all levels can be promoted. The Group stipulates that new frontline employees must participate in various aspects of safety education and training. During the year, subsidiaries of the Group held various training activities including production safety training welding certification training for gas special equipment, fire safety training and emergency drill. To guarantee the depth of knowledge on safety management for employees in safety management positions, the Group requires all subsidiaries to conduct safety tests regularly to ensure employees possess adequate safety knowledge, improve their theoretical knowledge and enhance their awareness of safety.

根據法律及法規規定，在招聘過程中嚴格禁止童工及強制勞工。集團嚴格遵守本地法律，不會聘用未達到下文所述的相關法例及規例所界定法定工作年齡的兒童。身份證等個人資料將於招聘過程中被收集，以核實面試人的身份。集團不得以任何形式的武力或恐嚇，或與工作相關的任何類型的體罰或脅迫強制僱員違背意願工作。倘發生違規行為，集團將按情況處理。

於本年度，集團並不知悉任何嚴重違反勞工準則的相關法例及法規而對集團造成重大影響的情況，包括但不限於《中華人民共和國勞動法》、《中華人民共和國勞動合同法》及加拿大阿爾伯塔省的《勞工法例》。

7.2 成長平台

集團重視員工培訓，視人才為企業可持續發展的推動力。集團積極推進各項人才培訓，注重為員工鋪排發展的道路，實現員工與集團共同成長的理想。集團人力資源部每年均會制定完善的員工培訓計劃，按員工的職業生涯提供持續培訓和多元化的發展機會。

各附屬公司亦根據實際需要為不同崗位的員工提供專項及專題培訓，於本年度集團舉辦了安全生產管理、財務信息系統、風險管理、職業技能、建設工程管理以及保險業務等方面的培訓，以提升員工的綜合能力。

安全培訓是集團培訓課程中重要的一環，集團提供有效且多元化的培訓方法，通過分級分類的培訓並採取多項措施，提升各級員工的安全意識和責任意識。集團規定新入職的一線員工須參加多方面的安全教育培訓。各附屬公司於本年度舉辦了安全生產專題培訓、燃氣特種設備焊接取證培訓、消防安全培訓以及應急演練等活動。集團為切實維持安全管理人員的安全管理水平，要求各附屬公司定期舉辦安全知識考試，保證員工時刻掌握安全知識，提高安全理論知識，增強安全文化素質。

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7.3 Response to COVID-19

In response to the COVID-19 pandemic, the Group established the emergency leading group for COVID-19 prevention and control, established a comprehensive coordination mechanism, and adopted various measures to prevent the spread of the virus and protect the health and safety of employees. The Group formulated Work Plan for the Prevention and Control of COVID-19, Detailed Rules for Implementation, Guidelines for Epidemic Prevention and Control and Measures for the Management of Protective Supplies and other related policies, providing guidance for implementation. The Group procured protective equipment and emergency supplies through multiple channels, and prepared and stored related goods. Shifts were adjusted appropriately and employees were provided with protective equipment. Employees followed standardised procedures at work, taking temperature every day, wearing face masks in high-risk times and keeping social distance. Employees are asked to reduce unnecessary outings and travels and avoid crowded places. Employees worked from home and were subject to quarantine when necessary. Employees are encouraged to get vaccinated. Business halls, gas stations and offices increased disinfection and ventilation, and verified and registered access personnel and vehicles. Staff canteens serve meals separately. Conferences and trainings were held remotely over the internet during the pandemic.

7.3 2019新型冠狀病毒應對措施

為應對2019新型冠狀病毒疫情，集團成立2019新型冠狀病毒防控應急領導小組，建立綜合協調機制，採取多種措施防止病毒傳播，保障員工的健康和安全。制定《疫情防控工作方案》、《防控實施細則》、《疫情防控指導手冊》、《疫期防護用品管理辦法》等政策，為執行提供指導。我們通過多種渠道採購防護用品和應急物資以加強物資的儲備、合理安排上班時間，以及為員工提供防護物資。員工需每日測量體溫，在高風險的時期佩戴口罩，保持社交距離。我們亦要求員工減少不必要的外出活動和旅行，避免去人群聚集的場所。我們於必要時採取居家辦公、隔離等措施，鼓勵員工接種疫苗，並加強對營業廳、加氣站和辦公場所的消毒和通風，核實登記來往人員和車輛，食堂實行分餐制。疫情期間集團亦會通過網絡召開會議和開展員工遠程培訓。

CASE 案例：

Employees Received COVID-19 Vaccination

員工接種2019新型冠狀病毒疫苗



8. PRACTICE INTEGRITY

The Group considers the culture of integrity as an inseparable part of corporate development. The Group abides by laws and regulations such as the Criminal Law of the People's Republic of China, Anti-Corruption Law of the People's Republic of China and Anti-Money Laundering Law of the People's Republic of China and eliminates any form of benefit transfer, corruption and bribery. In the bidding and tendering process for engineering services and materials procurement, the Group strictly abides by the Bidding Law of the People's Republic of China and formulated the "Regulations for the Bidding and Tendering Management of Project Service and Material Procurement", which stipulates that the tendering and bidding activities shall be conducted in an open, fair and impartial manner. Rules and policies are set for the procedures of bid invitation, bid evaluation and bid determination. For example, bidders are prohibited from pressuring the tenderers during the process of tendering to eliminate any form of corruption or bribery. In addition, the executives of the Group must sign and obey the "Letter of Commitment for Anti-Corruption" and promise to firmly resist any form of bribery, extortion, fraud, intentionally making transactions with improper parties, money laundering, etc. If employees violate their commitments, they must take responsibility for breach of contract and legal consequences.

Baccalieu has formulated management practices concerning commercial conduct and ethics to regulate conflicts of interest, receiving bribery, privacy confidentiality, etc. Baccalieu has also developed a whistle-blowing mechanism to encourage the reporting of any illegal or unethical behavior. If violations are found, the board will take control of the cases. During the year, the Group was not aware of any material non-compliance with relevant laws and regulations of bribery, extortion, fraud and money laundering that would have a significant impact on the Group, including but not limited to Anti-Unfair Competition Law of the People's Republic of China and Criminal Law of the People's Republic of China and Criminal Code of Canada. Also, there were no concluded legal cases regarding corrupt practices during the Reporting Period.

During the year, the Group provided a total of about 17,535 hours of anti-corruption training to a total of 501 directors, senior executives and staff above middle-level of subsidiaries and provided a total of about 146,545 hours of anti-corruption training to 4,187 employees. It covers the Group's risk prevention and control management system to develop their anti-corruption awareness and professional conduct, as a move to comply with laws and regulations in Hong Kong and the PRC.

8. 廉潔從業

集團把廉潔文化視為企業建設的重要部分。集團恪守《中華人民共和國刑法》、《中華人民共和國反貪污賄賂法》、《中華人民共和國反洗錢法》等法律法規，杜絕任何形式的利益輸送和貪腐賄賂的行為。在工程服務及物資採購招投標中，集團嚴格遵守《中華人民共和國招標投標法》並制定《工程服務和物資採購招投標管理實施細則》，當中訂明招投標活動應當遵循公開、公平、公正和誠實信用的原則。於開標、評標、定標過程中訂立多項規定，如投標人在投標審查、澄清、評價、比較及評標的過程中，禁止對招標人施加壓力，以杜絕任何形式的貪污受賄行為。另外，集團規定高管人員上任時須簽署《反舞弊承諾書》，承諾堅決抵制任何形式的賄賂、勒索、欺詐、故意與不當關聯方交易、進行洗黑錢行為等；承諾書上亦訂明如員工違反承諾，需要承擔違諾責任和法律後果。

Baccalieu公司已制定有關商業行為和道德規範的管理辦法，規範利益衝突、收受賄賂、私隱保密等事宜。Baccalieu公司亦制定舉報機制，鼓勵舉報任何非法或不道德行為。如發現違規事件，將交由董事會處理。於本年度，集團並不知悉任何嚴重違反賄賂、勒索、欺詐及洗錢的相關法例及法規而對集團造成重大影響的情況，包括但不限於《中華人民共和國反不正當競爭法》、《中華人民共和國刑法》及加拿大的《刑法典》。本年度亦無任何已審結的貪污訴訟案件。

於本年度，集團已向董事、高管及子公司中層以上共501名管理人員提供合共約17,535小時反貪污培訓，以及向4,187名員工提供合共約146,545小時反貪污培訓。內容涵蓋集團風險防控管理制度，以培養員工的反貪意識及良好的專業操守，遵守香港及中國大陸的法規。

9. ENGAGING WITH THE COMMUNITY

In response to the target set forth in the “Transforming our world: the 2030 Agenda for Sustainable Development” by the United Nations, the Group immersed ourselves in understanding the needs of different groups in the society, spread warmth and took concrete actions to contribute to the improvement of social welfare. Internal rules for community engagement have been in place to focus on providing assistance to all disadvantaged groups. The Group and its employees demonstrated their kind-hearted spirit and dedication by establishing the COG Volunteering Team and participating in voluntary activities, including visits to the elderly, supporting disaster relief and other activities. The Group also periodically organises seminars regarding the safety of gas in communities and schools to raise awareness of gas safety amongst the public. Baccalieu encourages its employees to enrol in volunteering organisations and actively supports charitable activities in Calgary and other locations of operation. In the future, the Group will continue to shoulder the mission of serving society, accomplishing great love with good deeds, and contributing to society.

CASE 案例：

Love and Respect for the Elderly

The Group's subsidiary has organised a visit to a nursing home in Guanzhuang Town, Liling City of the PRC during the year, in order to effectively help the lonely elderly solve the practical difficulties in life and provide daily care and support services.



9. 溫暖同行

集團積極回應聯合國《二零三零年可持續發展議程》目標倡議，切身處地體會社會不同人士的需要，致力回饋社會，傳播溫暖，並付諸實際行動，全方位發展公益事業。集團已制定有關社區參與的內部規定，專注向各方弱勢社群提供援助，並成立中油燃氣義工隊，鼓勵員工參加義務工作，包括慰問老人、協助救災等活動，展現企業和員工的愛心和奉獻精神。同時，集團不定期到社區及學校舉辦燃氣安全知識講座，提高用戶的燃氣安全意識。Baccalieu 公司亦鼓勵員工加入義工組織，積極支持卡加利地區和其他營運所在地的社區慈善活動。未來，集團將繼續肩負服務社會的使命，以點滴善行成就大愛，回饋社會。

愛老敬老活動

集團附屬公司已於本年度赴中國醴陵市莊鎮敬老院開展慰問活動，為切實幫助孤寡老人解決生活中的實際困難，提供日常關懷及支援服務。



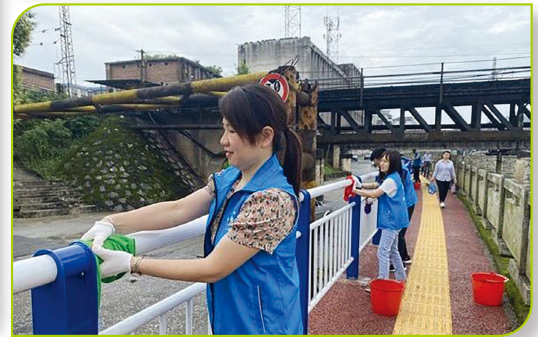
CASE 案例：

Environmental Cleaning Campaign

In order to facilitate the establishment of a national civilised city and create a clean and orderly examination environment for candidates, the Group's subsidiary has organised an environmental cleaning campaign in Luojiatang community of Pingxiang City during the year, contributing to the civilised and harmonious development of the community.

環境衛生大清掃活動

為助力國家文明城市創建工作，為考生營造整潔有序的考試環境，集團附屬公司已於本年度於萍鄉市羅家塘社區組織環境衛生大清掃活動，為社區文明和諧發展出一分力。



二零二一年年度環境、社會及管治報告

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10. PERFORMANCE IN 2021

The Group formulated this performance summary according to the Stock Exchange's ESG Reporting Guidelines. Since the Group outsourced most of its construction projects during the year, the performance in this aspect was difficult to obtain. In the future, the Group will establish an environmental performance management system and collect the relevant data of construction projects.

10. 二零二一年度績效數據

集團根據聯交所之ESG報告指引制定以下績效數據匯總表。由於集團大部分建設工程均聘請外部承包商，本年度難以提供工程建設方面的環境績效數據。未來，集團將積極收集工程建設環境數據，並建立環境績效管理系統。

Environmental Performance ¹ 環境表現 ¹	Unit 單位	Quantity 數量		Intensity ² (Unit/hundred million HKD Revenue) 密度 ² (單位/億港元營業額)	
Resources Consumption ³ 資源耗用 ³		2021 二零二一年	2020 二零二零年	2021 二零二一年	2020 二零二零年
Direct Energy Consumption 直接能源消耗	MWh 兆瓦時	74,644.75	81,161.19	520.54	778.15
Diesel 柴油	MWh 兆瓦時	1,836.92	2,478.91	12.81	23.77
Petrol 汽油	MWh 兆瓦時	539.02	455.77	3.76	4.37
Natural Gas 天然氣	MWh 兆瓦時	69,572.66	76,652.10	485.16	734.92
LPG 液化石油氣	MWh 兆瓦時	2,696.15	1,574.41	18.80	15.10
Indirect Energy Consumption 間接能源消耗	MWh 兆瓦時	40,691.27	37,790.79	283.76	362.33
Purchased Electricity 外購電力	MWh 兆瓦時	40,691.27	37,790.79	283.76	362.33
Total Energy Consumption 能源消耗總量	MWh 兆瓦時	115,336.02	118,951.98	804.30	1,140.48
Total Water Consumption 水源消耗總量	m ³ 立方米	98,716.00	71,473.74	688.40	685.27
Wastewater 廢水量	m ³ 立方米	39,865.00	30,679.00	278.00	294.14

¹ Data of Environmental Performance are from the Group's 4 selected divisions.

² During the year, the Group's revenue was approximately 143.4 hundred million HKD. This data is used for calculation of intensity.

³ The unit conversion method of energy consumption data was based on the *Energy Statistics Manual* issued by the International Energy Agency. As Baccalieu has refined its data collection system to accurately record LPG consumption, the Group has restated data of relevant consumption quantities and corresponding intensities for 2020.

¹ 環境表現的數據來自集團選定的4家業務分部。

² 於本年度，集團的營業額為約143.4億港元。該數據用於密度的計算。

³ 能源消耗數據的單位換算方法乃根據國際能源署所發佈之《能源數據手冊》所制訂。由於Baccalieu公司已完善數據收集系統以準確紀錄LPG消耗量，因此集團已重列二零二零年相關消耗量及相應的密度數據。

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Environmental Performance ¹ 環境表現 ¹	Unit 單位	Quantity 數量		Intensity ² (Unit/hundred million HKD Revenue) 密度 ² (單位/億港元營業額)	
		2021 二零二一年	2020 二零二零年	2021 二零二一年	2020 二零二零年
Wastes Disposal⁴ 廢棄物棄置 ⁴					
Hazardous Wastes 有害廢棄物	tonnes 噸	5,635.04	4,348.11	39.30	41.69
Oil-based Drill Cutting 油基鑽屑	tonnes 噸	5,634.92	4,348.00	39.30	41.69
Ink Cartridge 墨盒	tonnes 噸	0.11	0.11	0.001	0.001
Battery 電池	tonnes 噸	0.01	0.004	0.00007	0.00004
Non-hazardous Wastes 無害廢棄物	tonnes 噸	742.68	1,878.44	5.18	18.01
Water-based Drill Cutting 水基鑽屑	tonnes 噸	737.40	1,875.00	5.14	17.98
Paper 紙張	tonnes 噸	5.04	3.21	0.04	0.03
Office Wastes 辦公室廢物	tonnes 噸	0.24	0.23	0.002	0.002
Air Pollution Emissions⁵ 大氣污染物排放量 ⁵					
Nitrogen Oxides (NO _x) 氮氧化物 (NO _x)	tonnes 噸	2,238.36	2,477.76	15.61	23.76
Sulphur Oxides (SO _x) 硫氧化物 (SO _x)	tonnes 噸	0.004	0.005	0.00003	0.00004
Particulate Matter (PM) 顆粒物 (PM)	tonnes 噸	0.15	0.21	0.001	0.002
Volatile Organic Compounds (VOCs) 揮發性有機化合物 (VOCs)	tonnes 噸	78.30	72.60	0.55	0.70

⁴ Oil-based and water-based drill cutting were generated from Baccalieu's operations. Other waste was generated from the operations in the PRC.

⁵ The calculation method and respective emission factor of air emissions were based on *How to prepare an ESG report – Appendix II: Reporting Guidance on Environmental KPIs* issued by the Stock Exchange and the *4430 Factor Handbook of Industrial Boilers of Thermal Supply Industries* published by the Ministry of Ecology and Environment of the PRC. As Baccalieu has refined its data collection system to accurately record LPG consumption, the Group has restated data of Nitrogen Oxides (NO_x) and Sulphur Oxides (SO_x) emissions and corresponding intensities for 2020.

⁴ 油基鑽屑和水基鑽屑屬於Baccalieu公司業務的廢棄物，其餘廢棄物則屬於中國業務的廢棄物。

⁵ 廢氣排放的計算方法及相關排放系數計算乃根據聯交所發佈的《如何準備ESG報告—附錄二：環境關鍵績效指標匯報指引》、中國生態環境部最新發佈的《4430工業鍋爐(熱力供應)行業系數手冊》所制訂。由於Baccalieu公司已完善數據收集系統以準確紀錄LPG消耗量，因此集團已重列二零二零年的氮氧化物(NO_x)及硫氧化物(SO_x)的排放量及相應的密度數據。

二零二一年年度環境、社會及管治報告

(continued) (續)

Environmental Performance ¹	Unit	Quantity		Intensity ² (Unit/hundred million HKD Revenue)	
環境表現 ¹	單位	數量		密度 ² (單位/億港元營業額)	
GHG Emissions⁶		2021	2020	2021	2020
溫室氣體排放 ⁶		二零二一年	二零二零年	二零二一年	二零二零年
Direct GHG Emissions (Scope 1)	tCO₂e	254,810.08	228,706.27	1,776.92	2,192.77
直接溫室氣體排放 (範圍一)	噸二氧化碳當量				
– Hydrocarbons Venting and Flaring					
碳氫化合物排放及燃燒					
– Natural Gas and LPG Consumption					
天然氣及液化石油氣消耗					
– Direct Emissions ⁷					
直接排放 ⁷					
– Vehicles Usage					
車輛使用					
– Refrigerant Consumption					
製冷劑消耗					
Energy Indirect GHG Emissions (Scope 2)	tCO₂e	27,907.47	25,967.50	194.61	248.97
能源間接溫室氣體排放 (範圍二)	噸二氧化碳當量				
– Purchased Electricity					
外購電力					
Total GHG Emissions	tCO₂e	282,717.55	254,673.77	1,971.53	2,441.74
溫室氣體排放總量	噸二氧化碳當量				
Hydrocarbons Venting and Flaring					
碳氫化合物排放及燃燒					
Hydrocarbons (Vented)	'000 m ³	904.20	841.00	6.31	8.06
碳氫化合物排放量	千立方米				
Hydrocarbons (Flared)	'000 m ³	469.10	118.00	3.27	1.13
碳氫化合物燃燒量	千立方米				

⁶ The calculation method and respective emission factor of direct GHG emissions (Scope 1) were based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 2 Energy issued by the Intergovernmental Panel on Climate Change and How to prepare an ESG report – Appendix II: Reporting Guidance on Environmental KPIs issued by the Stock Exchange. The calculation method and respective emission factors of energy indirect GHG emissions (Scope 2) were based on the 2019 Baseline Emission Factors for Regional Power Grids in the PRC published by the Ministry of Ecology and Environment of the People's Republic of China. As Baccalieu has refined its data collection system to accurately record LPG consumption, the Group has restated data of direct GHG emissions, total GHG emissions and corresponding intensities for 2020.

⁷ Direct emissions refer to the CH₄ emissions generated from oil storage tank venting, pneumatic instruments, and compressor seals.

⁶ 直接溫室氣體排放(範圍一)的計算方法及相關排放系數計算乃根據、政府間氣候變化專門委員會(IPCC)發佈的《2006年IPCC國家溫室氣體清單指南第2卷能源》以及聯交所發佈的《如何準備ESG報告—附錄二：環境關鍵績效指標匯報指引》所制訂。而能源間接溫室氣體排放(範圍二)的計算方法及相關排放系數計算乃根據中國生態環境部發佈的《2019年度減排專案中國區域電網基準線排放因數》所制訂。由於Baccalieu公司已完善數據收集系統以準確紀錄LPG消耗量，因此集團已重列二零二零年的直接溫室氣體排放量、溫室氣體排放總量及相應的密度數據。

⁷ 直接排放是指儲油罐通風口、氣動儀器和壓縮機密封件產生的甲烷排放。

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Employment Disclosures 僱傭披露	Unit 單位	Quantity 數量	
		2021 二零二一年	2020 二零二零年
Information of Employment 僱傭資料			
Total Number of Employees 員工總數	No. of Persons 人數	4,704	4,443
Overall Employee Turnover Rate ⁸ 總員工流失率 ⁸	% 百分比	11.08%	No disclosure 無披露
Percentage of Total Employees Trained ⁹ 總受訓員工百分比 ⁹	% 百分比	99.96%	No disclosure 無披露
Average Training Hours Completed per Employee ¹⁰ 每名僱員完成受訓的平均時數 ¹⁰	Hours 小時	255.98	No disclosure 無披露
Proportion of Employees by Gender 按性別分類的員工比例			
Male 男性	% 百分比	66.58%	66.17%
Female 女性	% 百分比	33.42%	33.83%
Proportion of Employees by Age Group 按年齡組別分類的員工比例			
Aged 30 or Below 30歲或以下	% 百分比	26.00%	30.16%
Aged 31 to 50 31歲至50歲	% 百分比	64.09%	59.73%
Aged 51 or Above 51歲或以上	% 百分比	9.91%	10.11%
Proportion of Employee by Types of Business 按業務類型分類的員工比例			
Supply of Pipeline Gas 管道燃氣供應	% 百分比	68.60%	72.54%
Logistics and Transportation 物流運輸	% 百分比	0.55%	0.61%
LNG Production LNG生產	% 百分比	1.32%	1.60%
Exploitation and Production of Crude Oil and Natural Gas 開採及生產原油及天然氣	% 百分比	15.31%	12.22%
Others: Energy Equipment, Financial Leasing, Real Estate, etc. 其他：能源裝備、金融租賃、房地產等	% 百分比	14.22%	13.03%
Proportion of Employee by Employment Type 按僱傭類型分類的員工比例			
Full-time 全職	% 百分比	99.96%	99.95%
Part-time 兼職	% 百分比	0.04%	0.05%

二零二一年年度環境、社會及管治報告

(continued) (續)

Employment Disclosures 僱傭披露	Unit 單位	Quantity 數量	
		2021 二零二一年	2020 二零二零年
Proportion of Employees by Geographical Region 按地區分類的員工比例			
PRC 中國內地	% 百分比	99.58%	No Disclosure 無披露
Hong Kong 香港	% 百分比	0.19%	No Disclosure 無披露
Canada 加拿大	% 百分比	0.23%	No Disclosure 無披露
Employee Turnover Rate by Gender¹¹ 按性別分類的員工流失率 ¹¹			
Male 男性	% 百分比	12.77%	8.78%
Female 女性	% 百分比	7.70%	6.45%
Employee Turnover Rate by Types of Business¹¹ 按業務類型分類的員工流失率 ¹¹			
Supply of Pipeline Gas 管道燃氣供應	% 百分比	8.89%	7.91%
Logistics and Transportation 物流運輸	% 百分比	23.08%	55.56%
LNG Production LNG生產	% 百分比	24.19%	5.63%
Exploitation and Production of Crude Oil and Natural Gas 開採及生產原油及天然氣	% 百分比	17.36%	3.68%
Others: Energy Equipment, Financial Leasing, Real Estate, etc. 其他：能源裝備、金融租賃、房地產等	% 百分比	13.15%	10.54%
Employee Turnover Rate by Age Group¹¹ 按年齡組別分類的員工流失率 ¹¹			
Aged 30 or Below 30歲或以下	% 百分比	17.66%	8.51%
Aged 31 to 50 31歲至50歲	% 百分比	8.72%	6.10%
Aged 51 or Above 51歲或以上	% 百分比	9.01%	17.59%
Employee Turnover Rate by Geographical Region¹¹ 按地區分類的員工流失率 ¹¹			
PRC 中國內地	% 百分比	11.06%	No Disclosure 無披露
Hong Kong 香港	% 百分比	11.11%	No Disclosure 無披露
Canada 加拿大	% 百分比	18.18%	No Disclosure 無披露

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(continued) (續)

Employment Disclosures 僱傭披露	Unit 單位	Quantity 數量	
		2021 二零二一年	2020 二零二零年
Percentage of Employees Trained by Gender¹²			
按性別分類的受訓員工百分比 ¹²			
Male 男性	% 百分比	66.61%	No Disclosure 無披露
Female 女性	% 百分比	33.39%	No Disclosure 無披露
Percentage of Employees Trained by Business Type¹²			
按業務類型分類的受訓員工百分比 ¹²			
Supply of Pipeline Gas 管道燃氣供應	% 百分比	68.63%	No Disclosure 無披露
Logistics and Transportation 物流運輸	% 百分比	0.55%	No Disclosure 無披露
LNG Production LNG生產	% 百分比	1.32%	No Disclosure 無披露
Exploitation and Production of Crude Oil and Natural Gas 開採及生產原油及天然氣	% 百分比	15.27%	No Disclosure 無披露
Others: Energy Equipment, Finance Leasing, Real Estate, etc. 其他：能源裝備、金融租賃、房地產等	% 百分比	14.23%	No Disclosure 無披露
Average Training Hours Completed per Employee by Gender¹³			
按性別分類的員工平均受訓時數 ¹³			
Male 男性	Hours 小時	256.41	No Disclosure 無披露
Female 女性	Hours 小時	255.11	No Disclosure 無披露
Average Training Hours Completed per Employee by Business Type¹³			
按業務類型分類的員工平均受訓時數 ¹³			
Supply of Pipeline Gas 管道燃氣供應	Hours 小時	257.00	No Disclosure 無披露
Logistics and Transportation 物流運輸	Hours 小時	257.00	No Disclosure 無披露
LNG Production LNG生產	Hours 小時	257.00	No Disclosure 無披露
Exploitation and Production of Crude Oil and Natural Gas 開採及生產原油及天然氣	Hours 小時	253.42	No Disclosure 無披露
Others: Energy Equipment, Finance Leasing, Real Estate, etc. 其他：能源裝備、金融租賃、房地產等	Hours 小時	253.68	No Disclosure 無披露
Number of Suppliers by Geographical Region			
按地區分類的供應商數量			
PRC 中國內地	No. of Suppliers 家	118	No Disclosure 無披露
Overseas 海外	No. of Suppliers 家	620	No Disclosure 無披露

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| 8 | The overall employee turnover rate is calculated by dividing the total number of employees who left during the year by the total number of employees at the end of the year. | 8 | 總員工流失率是按本年度總離職員工人數除以年末的員工總數計算。 |
| 9 | The percentage of total employee trained is calculated by dividing the total number of employees who took part in training during the year by the total number of employees at the end of the year. | 9 | 總受訓員工百分比是按本年度總受訓員工人數除以年末的員工總數計算。 |
| 10 | The average training hours completed per employee is calculated by dividing the total number of training hours during the year by the total number of employees at the end of the year. | 10 | 每名員工完成受訓的平均時數是本年度總受訓時數除以年末員工總數計算。 |
| 11 | The employee turnover rate for each category is calculated by dividing the number of employees who left in the category during the year by the number of employees in the category at the end of the year. | 11 | 各類別的員工流失率是按本年度該類別的離職員工人數除以年末該類別的員工人數計算。 |
| 12 | The percentage of employees trained for each category is calculated by dividing the number of employees trained in the category during the year by the number of employees trained in the category during the year. | 12 | 各類別受訓員工百分比是按本年度該類別的受訓員工人數除以本年度總受訓員工人數計算。 |
| 13 | The average training hours completed per employee for each category is calculated by dividing the training hours of employees in the category during the year by the number of employees in the category at the end of the year. | 13 | 各類別員工的平均受訓時數是按本年度該類別員工的受訓時數除以年末該類別的員工人數計算。 |

APPENDIX: HKEX THE STOCK EXCHANGE'S ESG REPORTING GUIDE INDEX

附錄：聯交所之ESG報告指引索引

Mandatory Disclosure Requirements 強制披露規定		Section 章節	Page 頁碼	
管治架構		2	12	
匯報原則		1	6	
匯報範圍		1	6	
General Disclosures and KPIs 一般披露及 關鍵績效指標		Description 描述	Section 章節	Page 頁碼
Environmental 環境範疇				
Aspect A1: Emission 層面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：	6	27	
KPI A1.1 關鍵績效指標A1.1	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	10	42	
KPI A1.2 關鍵績效指標A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions (in tonnes) and, where appropriate, intensity (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)。	10	43	
KPI A1.3 關鍵績效指標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)。	10	42	
KPI A1.4 關鍵績效指標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)。	10	42	
KPI A1.5 關鍵績效指標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。	6	28	
KPI A1.6 關鍵績效指標A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them. 描述處理有害及無害廢棄物的方法，及描述所訂立的減廢目標及為達到這些目標所採取的步驟。	6	29	

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General Disclosures and KPIs 一般披露及 關鍵績效指標	Description 描述	Section 章節	Page 頁碼
Aspect A2: Use of Resources 層面A2：資源使用			
General Disclosure	Policies on the efficient use of resources, including energy, water and other raw materials.	6	27
一般披露	有效使用資源(包括能源、水及其他原材料)的政策。	6	
KPI 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).	10	41
關鍵績效指標A2.1	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)。	10	
KPI A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility).	10	41
關鍵績效指標A2.2	總耗水量及密度(如以每產量單位、每項設施計算)。	10	
KPI A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them.	6	31
關鍵績效指標A2.3	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。	6	
KPI 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.	6	31
關鍵績效指標A2.4	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。	6	
KPI A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced.	N/A	N/A
關鍵績效指標A2.5	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。	不適用	不適用
Aspect A3: The Environment and Natural Resources 層面A3：環境及天然資源			
General Disclosure	Policies on minimising the issuer's significant impacts on the environment and natural resources.	6	32
一般披露	減低發行人對環境及天然資源造成重大影響的政策。	6	
KPI A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	6	32
關鍵績效指標A3.1	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。	6	

General Disclosures and KPIs 一般披露及 關鍵績效指標	Description 描述	Section 章節	Page 頁碼
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Aspect A4:

Climate Change

層面A4：氣候變化

General Disclosure	Policies on identification and mitigation of significant climate-related issues which have impacted, and those which may impact, the issuer.	6	33
一般披露	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。	6	
KPI 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.	6	33
關鍵績效指標A4.1	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。	6	

**Social
社會**

Employment and Labour Practices

僱傭及勞工常規

Aspect B1: Employment

層面B1：僱傭

General Disclosure	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare.	7	35
一般披露	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。	7	
KPI B1.1	Total workforce by gender, employment type (for example, full-or part-time), age group and geographical region.	10	44
關鍵績效指標B1.1	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。	10	
KPI B1.2	Employee turnover rate by gender, age group and geographical region.	10	45
關鍵績效指標B1.2	按性別、年齡組別及地區劃分的僱員流失比率。	10	

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General Disclosures and KPIs 一般披露及 關鍵績效指標	Description 描述	Section 章節	Page 頁碼
Aspect B2: Health and Safety 層面B2：健康與安全			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards. 有關提供安全工作環境及保障僱員避免職業性危害的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	4	22
KPI B2.1 關鍵績效指標B2.1	Number and rate of work-related fatalities occurred in each of the past three years including the reporting year. 過去三年(包括匯報年度)每年因工亡故的人數及比率。	4	22
KPI B2.2 關鍵績效指標B2.2	Lost days due to work injury. 因工傷損失工作日數。	4	22
KPI B2.3 關鍵績效指標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。	4	22
Aspect B3: Development and Training 層面B3：發展及培訓			
General Disclosure 一般披露	Policies on improving employee 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。	7	36
KPI B3.1 關鍵績效指標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。	10	46
KPI B3.2 關鍵績效指標B3.2	The average training hours completed per employee by gender and employee category. 按性別及僱員類別劃分，每名僱員完成受訓的平均時數。	10	46

General Disclosures and KPIs 一般披露及 關鍵績效指標	Description 描述	Section 章節	Page 頁碼
Aspect B4: Labour Standards 層面B4：勞工準則			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child 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。	7	35
KPI B4.1 關鍵績效指標B4.1	Description of measures to review employment practices to avoid child and forced labour. 描述檢討招聘慣例的措施以避免童工及強制勞工。	7	35
KPI B4.2 關鍵績效指標B4.2	Description of steps taken to eliminate such practices when discovered. 描述在發現違規情況時消除有關情況所採取的步驟。	7	35
Operating Practices 營運慣例			
Aspect B5: Supply Chain Management 層面B5：供應鏈管理			
General Disclosure 一般披露	Policies on managing environmental and social risks of the supply chain. 管理供應鏈的環境及社會風險政策。	4	18
KPI B5.1 關鍵績效指標B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目。	10	46
KPI B5.2 關鍵績效指標B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored. 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目，以及相關執行及監察方法。	10	18
KPI B5.3 關鍵績效指標B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored. 描述有關識別供應鏈每個環節的環境及社會風險的慣例，以及相關執行及監察方法。	4	18

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General Disclosures and KPIs 一般披露及 關鍵績效指標	Description 描述	Section 章節	Page 頁碼
Aspect B6: Product Responsibility 層面B6：產品責任			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress. 有關所提供產品和服務的健康與安全、廣告、標籤及私隱事宜以及補救方法的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	5	25
KPI B6.1 關鍵績效指標B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons. 已售或已運送產品總數中因安全與健康理由而須回收的百分比。	5	25
KPI B6.2 關鍵績效指標B6.2	Number of products and service related complaints received and how they are dealt with. 接獲關於產品及服務的投訴數目以及應對方法。	5	26
KPI B6.3 關鍵績效指標B6.3	Description of practices relating to observing and protecting intellectual property rights. 描述與維護及保障知識產權有關的慣例。	5	25
KPI B6.4 關鍵績效指標B6.4	Description of quality assurance process and recall procedures. 描述質量檢定過程及產品回收程序。	5	25
KPI B6.5 關鍵績效指標B6.5	Description of consumer data protection and privacy policies, and how they are implemented and monitored. 描述消費者資料保障及私隱政策，以及相關執行及監察方法。	5	26

General Disclosures and KPIs 一般披露及 關鍵績效指標	Description 描述	Section 章節	Page 頁碼
Aspect B7: Anticorruption			
層面B7：反貪污			
General Disclosure	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering.	8	38
一般披露	有關防止賄賂、勒索、欺詐及洗黑錢的：	8	
KPI B7.1	(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。 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.	8	38
關鍵績效指標B7.1	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。	8	
KPI B7.2	Description of preventive measures and whistle-blowing procedures, and how they are implemented and monitored.	8	38
關鍵績效指標B7.2	描述防範措施及舉報程序，以及相關執行及監察方法。	8	
KPI B7.3	Description of anti-corruption training provided to directors and staff.	8	38
關鍵績效指標B7.3	描述向董事及員工提供的反貪污培訓。	8	

Community 社區

Aspect B8:			
Community Investment			
層面B8：社區投資			
General Disclosure	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.	9	39
一般披露	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。	9	
KPI B8.1	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport).	9	39
關鍵績效指標B8.1	專注貢獻範疇(如教育、環境事宜、勞工需求、健康、文化、體育)。	9	
KPI B8.2	Resources contributed (e.g. money or time) to the focus area.	9	39
關鍵績效指標B8.2	在專注範疇所動用資源(如金錢或時間)。	9	