

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

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT 2018 環境、社會及管治報告



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CHAIRMAN'S STATEMENT

主席致辭



Dear stakeholders,

Welcome to our Environmental, Social and Governance report for Year 2018, this report is prepared in accordance with the Environmental, Social and Governance Reporting Guide set out in Appendix 27 of the Main Board Listing Rules of the Hong Kong Stock Exchange and with reference to the Sustainability Reporting Guidelines published by the Global Reporting Initiative.

As a clean energy company, China Oil and Gas Group Limited shoulders the mission of "Develop business of clean energy, contribute sustainability to society" and has been promoting the use of natural gas since our establishment.

As at 31 December 2018, the Group had established a total of 138 natural gas project companies in 16 provinces and autonomous regions, with 71 gas concession rights in the PRC and the total length of natural gas pipelines constructed was approximately 12,510 km, and supplied economical and clean natural gas to 1,343,844 households and 11,812 commercial and industrial users.

各位尊敬的利益相關方:

歡迎閱讀我們根據香港聯合交易所主板上市 規則附錄二十七所載之《環境、社會及管治報 告指引》及參考全球報告倡議組織發佈的《可 持續發展報告指南》所編制而成的2018年環 境、社會及管治報告。

中油燃氣集團作為清潔能源公司,肩負著「發 展清潔能源事業,保障人類持續發展」的使命, 自成立以來不斷地推動天然氣的廣泛應用。

截至2018年12月31日,集團已先後在中國16 個省及自治區成立天然氣項目公司合共138家, 擁有71項燃氣特許經營權,累計投資建設天 然氣管道約12,510公里,為1,343,844戶居民用 戶、及11,812戶工商業用戶供應經濟、潔淨的 天然氣。



Our emphasis on occupational safety is second to none, and we strictly regulate every detail of the production process. During the reporting period, no safety production liability accidents or casualties is 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 China, 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 Reporting Period. 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 officially established Zhongtai University in 2018. With the Group's senior management, college professors, professional lecturers and internal trainers as teachers, the Group accelerated the establishment of a learning enterprise as well as talent training system to cultivate knowledgeable workers.

2018年間,集團總天然氣銷售量為37.25億立 方米,相當於減少使用煤炭約4.84百萬噸,有 助減少排放約18.26百萬噸二氧化碳。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。在報告期內,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 納,以及每年組織兩次全覆蓋性的安全檢查。 年內,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,集團在2018年正式成立了中泰大學,以集團高管、院校教授、專業講師及企業內訓師為師資,加快創建學習型企業,搭建集團的人才培養體系和員工成長發展階梯,大力培養知識型員工。





(continued) (續)

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 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.

In respect of the continuous development of the economy of China, 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 China.

In the future, the Group will continue to liaise closely with stakeholders (including investors, customers, employees, suppliers and the communities), 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* 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。

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,中油燃氣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(包括 投資者、客戶、僱員、供應商及社區)的溝通, 持續瞭解和回應各方的關注事項,並且為社 會和環境的發展作出貢獻。

許鉄良 *主席* (continued) (續)



SUMMARY OF SUSTAINABLE PERFORMANCE 可持續發展表現摘要



MANAGEMENT SYSTEM CERTIFICATION 管理體系認證







(continued) (續)

1. ABOUT ESG REPORT

1.1 Reporting Basis

The Environmental, Social and Governance Report ("ESG Report") is prepared in accordance with the Environmental, Social and Governance Reporting Guide set forth in Appendix 27 of the Main Board Listing Rules issued by The Stock Exchange of Hong Kong Limited (the "HKEx"). This ESG Report discloses the concept of sustainable development and the responsibility of fulfilling corporate citizenship of the company in 2018. 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 Group's annual report.

1.2 Scope of Report

Unless otherwise specified, this ESG Report covers the core business of the Group in China and the core business of the Group's subsidiary, Baccalieu Energy Inc. ("Baccalieu") in Canada for the period from 1 January 2018 to 31 December 2018 (the "Reporting Period"). 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.

1.3 Information and Feedback

For information on environmental and social 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 編制基準

集團按照香港聯合交易所有限公司(「聯交所」) 發佈的《香港聯合交易所有限公司證券上市規 則》(《上市規則》)附錄二十七《環境、社會及 管治報告指引》編制「環境、社會及管治報告」 (「ESG報告」)。ESG報告披露集團於二零一八 年內實行之可持續發展理念及履行企業公民 責任所推行的各項工作。ESG報告應與年報中 的「企業管治報告」章節一併閲覽,以便全面 了解集團在環境、社會及企業管治方面的表現。

1.2 報告範圍

除有特別註明外,ESG報告範圍為集團於二零 一八年一月一日至二零一八年十二月三十一 日(「本年度」)在中國內地以及附屬公司 Baccalieu Energy Inc.(「Baccalieu公司」)在加拿 大的核心業務。ESG報告的內容涵蓋集團重要 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。

1.3 信息及反饋

有關集團環境及社會方面的資訊,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。



2. ABOUT US

2.1 Corporate Profiles

China Oil And Gas Group Limited (the "Company") (stock code: 603) and its subsidiaries (together, the "Group") are principally engaged in 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 compressed natural gas ("CNG") and liquefied natural gas ("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 has built 39 CNG stations, 10 LNG stations and 6 L/ CNG 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 1,087 km branch pipelines in Qinghai, Hunan, Jiangsu, Jiangxi, Shanxi, Shandong, Guizhou, Guangdong, Anhui and Hubei Province. 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 well established a large-scale developed 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 24.8 million barrels of oil equivalent and the proved plus probable reserves of approximately 39 million barrels of oil equivalent. Its average daily production was 5,383 barrels of oil equivalent in 2018. Our exploration and production business possesses energy business in production, a very experienced management team with proven tracking 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

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」)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; 壓縮天然氣(「CNG」)及液化天然氣(「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建立CNG加氣站39座、 LNG加氣站10座及L/CNG加氣站6座。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 於青海、湖南、江蘇、江西、山西、山東、貴 州、廣東、安徽和湖北省等省份建成總長度達 1,087公里的支線管道,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2,480萬桶油當量及探明加控制儲量約為 3,900萬桶油當量,二零一八年平均每日產量 為5,383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。



(continued) (續)

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



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



OIL AND GAS PRODUCTION BUSINESS IN CANADA

加拿大油氣生產業務

於二零一八年十二月三十一日

儲量

RESERVES

As at 31 December 2018





(continued) (續)





(continued) (續)



2.3 Concept of Sustainability

China Oil and Gas Group Limited (the "Company") (stock code: 603) and its subsidiaries (the "Group", "We") are 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 China, increasing the market share of natural gas and strongly supporting the development of clean energy.

2.3 可持續發展理念

中油燃氣集團有限公司(「公司」)(股份代號: 603)及其附屬公司(「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。





(continued) (續)

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; in 2018, 3,725 million cubic meters of natural gas were successfully promoted and sold, equivalent to the reduction of 4.84 million tonnes of coal used, contributed to the reduction of carbon dioxide emissions by approximately 18.26 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 China; 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 2018, the Group has established 138 project companies in 16 provinces and autonomous regions of China, obtained 71 concession rights, and has provided clean and efficient natural gas to more than 1.30 million residential users and over 10,000 industrial and commercial users. The Group owned 55 natural gas refuelling stations and approximately 12,510 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 China.

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,本公司2018年度成功推廣及銷售天 然氣37.25億立方米,相當於減少使用煤炭4.84 百萬噸,減少排放二氧化碳當量18.26百萬噸, 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。截至二零一八年 十二月三十一日,集團已在中國16個省及自 治區成立項目公司138家,擁有71個燃氣特許 經營權,為超過130萬戶居民用戶及過萬戶工 商業用戶提供潔淨、高效的天然氣資源。集團 擁有55座天然氣加氣站,累計投資建設天然 氣管道約12,510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。

(continued) (續)



3. VALUE THE PARTICIPATION OF STAKEHOLDERS

We value the opinions of stakeholders on the topic of sustainable development. In order to collect and understand the opinions of stakeholders on the environmental and social development of the Group, we regularly communicate with employees, customers, investors, suppliers and communities, etc. Based on the guidelines stipulated by the HKEx, 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 matter.

3. 重視利益相關方參與

本集團定期主動與員工、客戶、投資者、供應 商及社區等進行溝通,以便收集且了解各利 益相關方對集團在環境和社會發展方面的意 見與觀點,並視為中油燃氣在可持續發展管 理中的重要一環。本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。

Stakeholders 利益相關方	Channels of Communication 溝通渠道
Employees and Management 員工、管理層	 Internal Communication Activities Internal Training 內部溝通活動 內部培訓
Shareholders and Investors 股東、投資者	 General Meetings Announcements and Annual Report 股東大會 公告、年度報告
Customers 客戶	 Customer Satisfaction Survey Customer Hotline 客戶滿意度調查表 客服電話
 Community 社區	 Organisation of Green Community Activities Promotion in the Community 舉辦綠色公益活動 社區宣傳

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 25 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 501 valid questionnaires were received.

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 25 issues were prioritised. The closer an issue is to the upper right-hand corner, the more significant it is to China Oil and Gas Group and the stakeholders. The closer an issue is to the lower left-hand corner, the less significant it is.

3.1 識別及釐定實質性議題的優先次序

中油燃氣參考國際、國內及行業標準,對標同 行領先企業,識別出反映本集團業務可持續 發展的議題共25項,並透過綫上問卷調查的 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501份有效問卷。

3.2 實質性分析

本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核並繪製 實質性矩陣。以下重要性矩陣展示了25項議 題的優先次序。矩陣中越靠近右上角的議題 對中油燃氣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。





(continued) (續)







After considering their significance to China Oil and Gas Group and to stakeholders, 11 highly material issues, 3 moderately material issues and 11 less material issues were identified. While focusing on material issues, this report also responds to the major concerns of external stakeholders. The following table shows the prioritised issues and their corresponding sections in this report. The policies and management measures in all material aspects specified in the ESG Reporting Guide issued by the Hong Kong Stock Exchange are set out in the relevant sections of this report. For details, please refer to the index table in the appendix.

綜合考慮對中油燃氣的重要性及對利益相關 方的重要性兩個層面後,我們確立了11項高 度重要議題、3項中度重要議題以及11項次重 要議題。本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。下表列 出議題的優先次序以及在本報告中對應的章 節。香港聯交所《ESG報告指引》各重要層面的 政策與管理措施於本報告中的對應位置,詳 見附錄中的索引表。

Materiality Table

重要性列表

Materiality 重要性	lssues 議題	Corresponding Section 對應章節
	Safe and Stable Supply of Gas 安全穩定供氣	Safe and Stable Supply of Gas 安全穩定供氣
	Quality of Products and Services 產品及服務質量	Exceptional Quality 打造卓越品質
	Reasonable Price 合理的價格	Exceptional Quality 打造卓越品質
	Customer Service Management 客戶服務管理	Exceptional Quality 打造卓越品質
	Contribution to Air Emissions Control 貢獻空氣治理	Dedication to Green Development 深耕綠色發展
Highly Material 高度重要	Prevention of Oil and Natural Gas Leakages 石油天然氣洩漏預防	Safe and Stable Supply of Gas 安全穩定供氣
	Protection of Employees' Right 保護員工權益	Caring for Employees 關注員工需求
	Energy Consumption 能源消耗	Dedication to Green Development 深耕綠色發展
	Employee Training and Development 員工培訓及發展	Caring for Employees 關注員工需求
	Avoidance and Mitigation of Land Deterioration and Pollution during Piping Installation Works 燃管鋪設時避免及修復土地退化和污染	Dedication to Green Development 深耕綠色發展
	Safeguard Occupational Health and Process Safety 保障職業健康與工藝安全	Safe and Stable Supply of Gas 安全穩定供氣







(continued) (續)

Materiality	Issues	Corresponding Section
重要性		對應章節
	Caring for Employees 員工關愛	Caring for Employees 關注員工需求
Moderately Material 中度重要	Greenhouse Gas Emissions 溫室氣體排放	Dedication to Green Development 深耕綠色發展
	Assessing and Monitoring Environmental and Social Impacts of the Supply Chain 評估及監控供應鏈對環境和社會的影響	Safe and Stable Supply of Gas 安全穩定供氣
	Wastewater and Waste 污水和廢棄物	Dedication to Green Development 深耕綠色發展
	Compliance with Environment-related Laws and Regulations	Dedication to Green Development
	關於環境方面的法規遵循	深耕綠色發展
	Other Air Emissions 其他大氣排放物	Dedication to Green Development 深耕綠色發展
	Certification of Environmental and Quality Management System	Dedication to Green Development
	環境管理、品質管理體系認證	深耕綠色發展
	Influence to and Interaction with the Community 當地社區影響和互動	Engaging with the Community 溫暖同行
Less Material 次重要	Launching of Environmental Charity Work 開展環保公益慈善	Dedication to Green Development 深耕綠色發展
	Management of the Retired Natural Gas Facilities 石油天然氣設施退役管理	Dedication to Green Development 深耕綠色發展
	Safeguard Customers' Information Privacy 保障客戶資料私隱	Exceptional Quality 打造卓越品質
	Elimination of Discrimination in the Workplace 消除工作場所的歧視	Caring for Employees 關注員工需求
	Prevention of Bribery, Extortion, Fraud and Money Laundering 防止賄賂、勒索、欺詐及洗黑錢	Practice Integrity 廉潔從業
	Avoid Forced Labour and Child Labour 避免強制勞工和使用童工	Caring for Employees 關注員工需求

(continued) (續)



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 high quality of 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.

CASE 案例:

Ensure Gas Safety

A ALTERITY .

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



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、舉辦燃氣全宣傳等,務 求由供氣到用氣全方位保障燃氣安全。

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。







(continued) (續)

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 Material Procurement", which is coordinated and executed by the Engineering Equipment 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 formulated the "Policy of Supplier Management System" and established a supplier catalogue. All subsidiaries are required to re-evaluate their 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 guality of the 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 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 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.

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《物資採購管理辦法》,由 工程裝備事業部負責統籌及執行,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,集團制定《供應 商管理制度》, 並建立供應商目錄, 要求附屬 公司每年對供應商進行重新評估,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 理相關的專業資格等,確保供應商的資質和 生產質量符合集團要求。

在選擇工程項目供應商時,集團按照《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, 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 提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。

(continued) (續)



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.

CASE 案例:

Gas Safety with Me

In order to widespread the knowledge of gas safety, Liling COG organised an essay contest "Safety in Liling – Gas Safety with Me" in 2018. More than 200 schools participated in the contest and around 1,500 citizens engaged in the final round of the contest. The event conveyed the importance of gas safety to the community successfully.

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。

燃氣安全伴我行

為了更廣泛的傳播燃氣安全知識,營造安全用氣氛 圍,醴陵中油燃氣在2018年舉辦了「平安瓷城一燃 氣安全伴我行」徵文比賽,參賽學校達200餘所,比 賽現場參與市民達1500名,該比賽成功地向社區傳 達了燃氣安全的重要性。





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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.

CASE 案例:

Gas Leakage Emergency Drill

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

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。

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。





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 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公司嚴格執 行企業安全管理系統中的HSE守則,其中包括 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

ALL TITLES



(continued) (續)

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, Qinghai COG Ganhe Industrial Park Gas Co., Ltd. is certified with Q/SY1002.1-2013 Health and Safety Environmental Management System and Qinghai COG Chaofei is certified with OHSAS 18001 Occupational Health and Safety Management System.

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,集團附屬公司青海中油甘河工 業園區燃氣有限公司獲得健康安全環境管理 體系(Q/SY1002.1-2013)認證、青海中油超飛信 息技術有限公司獲得職業健康安全管理體系 (OHSAS 18001)認證。

CASE 案例:

Guarding for Love, Learning First Aid Knowledge

October 11th, Liling COG Training Centre invited the attending doctor of Liling City Chinese Medicine Hospital Chest Pain Center to provide training on Cardiopulmonary Resuscitation. The training also explained the treatments for illnesses that are common among front-line service workers, such as heatstroke, drowning, and food poisoning. More than 80 employees participated in the training.

為愛守護 學習急救知識

10月11日,醴陵中油燃氣培訓中心組織邀請醴陵市 中醫院胸痛中心主治醫生進行了"現場救護第一目 擊者心肺復蘇術"培訓,著重講授了與一線服務工作 者密切相關的中暑、食物中毒、溺水等急救處理知 識和技術,參訓學員近80餘人。





(continued) (續)

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 barrierfree 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.

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 occuring, 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.

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。



Fire fighting drill 消防滅火演練



Gas leakage emergency drill 燃氣洩漏應急演練





(continued) (續)

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), formulates 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.

CASE 案例:

Gas Production Accident Emergency Drill

September 2018, Xining COG Ltd. and Qinghai COG Compressed Natural Gas Sales Co., Ltd. organized employees to participate in Qinghai Province gas production emergency drill. The drill simulated the collapse of air column filling hose during CNG long-tube trailer filling operation. Employees of the group activated "site safety accident emergency rescue plan" and controlled the situation after a series of intense and orderly emergency treatments.

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 全事故應急預案編制導則》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)等指導文件編制 《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,對經營區 域內發生的泄漏事故、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。

燃氣生產事故應急演練

2018年9月,西寧中油燃氣有限責任公司聯合青海 中油壓縮天然氣銷售有限公司組織員工參加青海省 城鎮燃氣生產事故應急演練。演練模擬CNG長管拖 車充裝作業時加氣柱充裝軟管崩脱的情況,集團員 工當即按照《場站生產安全事故應急救援預案》展開 應急處置,經過一系列緊張有序的應急處置後,事 故現場得到有效控制,解除應急狀態。





In the event of an emergency, the 24-hour on-duty personnel of the company'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 company'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 company's engineering project department organizes the company's construction team personnel to provide emergency support. According to the severity of the incident, the general manager of the company 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.

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. 遇突發事故時,公司場站24小時值班人員第 一時間切斷場站供氣,通知上遊分輸站停止 分輸,通知下游用戶緊急停氣,由公司安全 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,由公司工程項目部組織公司施 工隊人員進行緊急支援。根據事件的嚴重程 度,公司總經理向當地燃氣主管部門城管局、 應急管理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 恢覆生產。

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。







(continued) (續)

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, all pipes are sent to the Binzhou Special Equipment Testing Institution for inspection before they are sold. Currently, Qinghai COG Ganhe Industrial Park Gas Co., Ltd. and Qinghai COG Chaofei Information Technology Co., Ltd. are certified with the ISO 9001 Quality Management System.

In addition, the Group strictly complies with laws and regulations relating to advertising, labelling and intellectual property rights, such as the Advertising Law of the People's Republic of China, the Trademark Law of the People's Republic of China, the Intellectual Property Law of the People's Republic of China and the Patent Law of the People's Republic of China. We pledge not to infringe others' intellectual property rights, patents, copyrights and other rights and interests by implementing restrictions on sales and credit, and eliminating the use of false and misleading statements in the process of product promotion and trading. Regarding information security, disclosure of confidential information is strictly forbidden in private conversations and in public places, unless prior approval is received from customers.

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, 濱州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,集團附屬公司青海中油甘河工業園 區燃氣有限公司、青海中油超飛信息技術有 限公司均獲得品質管理體系(ISO 9001:2008) 認證。

除此之外,集團嚴格遵守《中華人民共和國廣 告法》、《中華人民共和國商標法》、《中華人 民共和國知識產權法》和《中華人民共和國專 利法》等有關廣告、標籤及知識產權的法律法 規,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説明的行 為,承諾不侵犯他人知識產權、專利權、版權 等權益。另外,集團亦注重客戶的私隱保密及 資訊安全,嚴禁在職員工和離職員工以任何 將客戶資料外借或以其他形式透露他人。集 團規定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。

(continued) (續)



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. 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, covering 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.

5.2 服務周到

集團一向致力提高客戶服務水平,並制定完 善約《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 了投訴。如收到客戶對產品和 服務設置的不滿或投訴,各附屬公司的 不滿或投訴,各附屬公司的 足工。 將 服務部會啓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 了 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。



Employees visit catering industry users to ensure service quality 員工到訪餐飲業用戶,確保服務質素

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.

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。





(continued) (續)

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 everchanging needs of stakeholders and strives to protect the environment at all times.

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。

CASE 案例:

During the reporting period, the Group's Hong Kong office was certified as Hong Kong Green Organisation, and actively participated in the 2018 Hong Kong Awards for Environmental Excellence organised by the Environmental Campaign Committee.

報告期內,集團香港辦公室獲得香港綠色機構認證, 並且積極參與由環境運動委員會所組織的2018香港 環境卓越大獎。



(continued) (續)

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 China 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"). In 2017, Qinghai COG Chaofei Information Technology Co., Ltd. ("Qinghai COG Chaofei"), a subsidiary of the Group, was certified with the ISO 14001 Environmental Management System.

The Group continues to improve its risk management system, particularly relating to the management of oil and gas leakages, which are 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 Code of Health, Safety and Environment ("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 through the cooperation to ensure that Baccalieu can mobilise resources in a timely manner and conduct collaborative rescues with agencies when spills or other emergencies occur.

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 守中華人民共和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 求符合併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。2017年,集團附屬公司青海中 油超飛信息技術有限公司獲得環境管理體系 (ISO 14001)認證。

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,各應急計劃需通過集團安全監 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 公司根據健康、安全、環境(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。



(continued) (續)

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. Low-energy and high-efficiency equipment is used in the production of LNG in Qinghai COG Pipeline Gas Co., Ltd. ("LNG processing plant"), 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 greenhouse gas emissions. Baccalieu continues to closely monitor greenhouse gas emissions to ensure compliance with federal and provincial laws and regulations, as well as regulations issued by the AER. Flare combustion and electricity consumed in crude oil extraction are the two main sources of Baccalieu's greenhouse gas emissions, and the use of boilers and electricity consumption are the main sources of LNG processing plant's greenhouse gas emissions. In order to save energy and reduce consumption, advanced technologies are used in the LNG processing plant 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 more lowcarbon, energy-saving and environmentally-friendly technologies to achieve the goal of sustainable development.

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。為減少 大氣污染物的排放,青海中油管道燃氣有限 公司(「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,從而減 少大氣污染物的排放。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。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放空火 炬的燃燒及原油開採過程中電力的消耗。另 外,LNG加工廠所產生的溫室氣體排放主要源 於使用鍋爐及電力。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。

(continued) (續)



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-bourne and water-bourne wastes. Generated hazardous wastes are sent to gualified 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 Pipeline Construction Co., Ltd. ("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 wasteshall 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.

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。青海宏利燃氣管 道安裝工程有限責任公司(「青海宏利」)嚴格 執行集團健康、安全及環境(「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 中產生的工業污油、廢機油、防凍液和污水等 廢液,並運到專門處理廠進行處理;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。



(continued) (續)

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. During the Reporting Period, Baccalieu legally abandoned 12 crude oil wells in compliance with the AER Directive 20 to minimise impacts on the environment. In addition, Binzhou CCNG Gas Equipment Manufacturing Co., Ltd ("Binzhou 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.

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. 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. 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。於本年度,Baccalieu公司根 據AER指引20 (AER Directive 20)要求合規棄置12 個石油井區,確保對環境造成最少的影響。此 外,濱州中油中泰燃氣設備製造有限責任公 司(「濱州設備」)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,濱州設備將管材廢 料定期交由合資格的第三方回收處理。

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。集團亦推 行電子辦公系統(OA System)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;將未發放完的宣 傳單留作下次使用等節約資源措施。

(continued) (續)



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. During the Reporting Period, 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, electricity is the major energy resource used, followed by natural gas and liquefied petroleum gas. 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.

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.

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。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電力,其次為天然氣 和液化石油氣。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%。

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。



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



(continued) (續)

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.

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.

6.5 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)在施工現場進行機械設備維修 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。同時,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。

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強 的噪音,針對噪音污染的防治,集團編制城區 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。

(continued) (續)



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 an ideal career development pathway, while creating a healthy and pleasant working environment to nurture a rich and warm cultural life.

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。




(continued) (續)

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. The Group takes pride in its diverse work team and adheres to the principle of antidiscrimination. 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 China 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.

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 章人民共和國勞動合同法》等政策法規,並以 立完善的人力資源管理制度。集團以為 一 招聘、培訓、晉升和薪酬制定等流程中,堅 對不同種族、國籍、信仰、性別、年齡、婚 對不同種族、國籍、信仰、性別、年齡、婚 況及受特殊法律保護的員工化,婚 個 定等有平等的發展機錄用人員的身 行度或運將外社絕僱用童工。如員工違反集團 制度或運用水量團有權與其解除勞 調 局。集團根據續效和貢獻給予員工晉升、關 之人力資源部會、並依照營運所在地的相關 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。



Marathon 馬拉松活動



Visit Hong Kong-Zhuhai-Macao Bridge 參觀港珠澳大橋

(continued) (續)



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.

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。

CASE 案例:

Emergency Rescue Training

From April 9th to 11th, Xining Zhiran Enterprise Information Consulting Co., Ltd. carried out an emergency rescue training at Qinghai Provincial Police Officer School. The 3-day course adopted a militarized system in accordance with Federal Emergency Management Agency and Community Emergency Response Team training courses. With 20% theory and 80% emergency rescue practice, the training focused on emergency rescue topics such as emergency first-aid, intensive crowd management, and militarization discipline standards, and demonstrated the knowledge on handling emergencies such as fire rescue under hazardous chemicals, emergency evacuation disposal, emergency mutual rescue, self-rescue protection and fire safety knowledge, and usage on emergency equipment.

應急搶險救援體驗式培訓

4月9日至11日, 西寧智然企業信息咨詢有限公司在 青海省警官學院開展了應急搶險救援及體驗式培訓。 三天的課程參照了美國FEMA(國家應急管理署)以及 CERT(社區應急響應)課程的培訓體系,以20%理論, 80%應急救援體驗作為培訓方式,針對突發事件急 救、密集場所人群管理、軍事化紀律標準等方面講 解了如危險化學品火災的撲救要領、應急疏散處置、 應急互救、自救防護和消防常識、應急器材使用等 突發事件的處理知識。







(continued) (續)

Thematic courses are provided in each subsidiary for employees in different job positions. During the reporting period, seminars on anti-monopoly and competition laws and regulations of restrictive competition were held; training courses on the development of distributed energy resource projects were provided; corporate crisis management training was provided for employees with positions as deputy manager and above; and training on the management system was provided to reinforce the management team's ability in executing policies and regulations of the Group during the mid-year meeting.

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. 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.

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,於本年度舉辦了有 關反壟斷、限制競爭法律法規的講座;分佈 式能源項目開發的培訓課程;為副總及以上 管理人員舉辦企業危機管理培訓;以及年中 工作會管理制度培訓,加強管理層執行各項 規章制度的能力。

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。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。



Employees participating in vocational skills competition 員工參加職業技能競賽

(continued) (續)

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.

Furthermore, Baccalieu strictly complies with the Alberta Commercial Corporation Law and other federal and provincial laws and regulations relating to anti-corruption. 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 Reporting Period, no cases of corruption lawsuits were received.

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 人員卜任時須簽署《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。

同時,Baccalieu公司亦嚴格遵守加拿大阿爾伯 塔省商業公司法、聯邦及省級反貪污的法律 法規等,且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公司並制定舉報機制,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。本年度,集團沒有 接獲任何貪污訴訟的案例。

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(continued) (續)

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, we 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. 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.

9. 温暖同行

集團積極回應聯合國《2030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,本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。

CASE 案例:

Voluntary Blood Donation

The Group established COG Volunteering Team and encourages employees to participate in voluntary blood donation, contribute to society and spread warmth by taking concrete actions.

義務獻血

集團成立中油燃氣義工隊,鼓勵員工義務獻血,用 實際行動展現企業和員工的愛心和奉獻精神。



(continued) (續)



CASE 案例:

Poverty Alleviation with Jizhou COG

On February 7th, as Spring Festival approaches, the employees of the Group together with Jixian County Housing and Construction Bureau, delivered hundreds of daily necessities to Baiziyuan Village, Baishansi Township, Jixian County, to share the joy of the festival with more than 1,000 villagers and make them feel the warmth and care from the society.

吉州中油扶貧慰問送溫暖

2月7日,春節臨近,集團員工連同吉縣住房和建設 局將數百份生活必需品送到吉縣柏山寺鄉白子原村, 與一千多名村民們分享節日的喜悦,使他們感受到 來自社會的關愛。









(continued) (續)

10. PERFORMANCE IN 2018

The Group formulated this performance summary¹ according to the HKEx ESG Reporting Guidelines. Since the Group outsourced most of its construction projects during the Reporting Period, 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. 2018年度績效數據

集團根據香港聯交所之《環境、社會及管治報告指引》制定以下績效數據匯總表1。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	Unit	Quantity	Intensity
環境表現	單位	數量	密度
Consumption of Resources 資源耗用總量 Purchased Electricity	MWh	23,626.98	251.08 per hundred million HKD Revenue
外購電力	兆瓦時	23,020.96	251.08 每億港元營業額
Purchased Water	m³	37,188.9	395.21 per hundred million HKD Revenue
外購自來水	立方米		395.21 每億港元營業額
Diesel	Litres	1,851.12	19.67 per hundred million HKD Revenue
柴油	公升		19.67 每億港元營業額
Natural Gas	′000 m³	9,968.65	105.94 per hundred million HKD Revenue
天然氣	千立方米		105.94 每億港元營業額
Lubricant Oil	Litres	1,570	16.68 per hundred million HKD Revenue
潤滑油	公升		16.68 每億港元營業額
Liquefied Petroleum Gas	Litres	20,404	216.83 per hundred million HKD Revenue
液化石油氣	公升		216.83 每億港元營業額
Wastewater	m³	95,040	1,009.99 per hundred million HKD Revenue
廢水量	立方米		1,009.99 每億港元營業額
Quantity of Waste by Types ² 按類別劃分的廢棄物總量 ²			
Oil-based Drill Cutting	Tonnes	3,100	32.94 per hundred million HKD Revenue
油基鑽屑	公噸		32.94 每億港元營業額
Water-based Drill Cutting	Tonnes	480	5.1 per hundred million HKD Revenue
水基鑽屑	公噸		5.1 每億港元營業額
Paper	Pieces	45,000	478.21 per hundred million HKD Revenue
紙張	張		478.21 每億港元營業額
Ink Cartridge	Box	50	0.53 per hundred million HKD Revenue
墨盒	個		0.53 每億港元營業額
Battery	Number	70	0.74 per hundred million HKD Revenue
電池	個		0.74 每億港元營業額

¹ Data of Environmental Performance are from the Group's 5 selected divisions.

² Oil-based and water-based drill cutting were generated from Baccalieu's operations in the Reporting Period. Other waste was generated from the Group's office in the Reporting Period.

1 環境表現的數據來自集團選定的5家事業部。

² 油基鑽屑和水基鑽屑屬於二零一八年度加拿大業務的廢棄物,其他廢棄物為二零一八年度辦公室廢棄物。

(continued) (續)



Environmental Performance	Unit	Quantity	Intensity
環境表現	單位	數量	密度
Air Pollution Emissions³ 大氣污染物排放量 ³ Nitrogen Oxides (NO _x) 氮氧化物(NOx)	Tonnes 公噸	2,686.24	28.56 per hundred million HKD Revenue 28.56 每億港元營業額
Sulphur Dioxide (SO ₂)	Tonnes	6.43	6.83 x 10 ⁻² per hundred million HKD Revenue
二氧化硫(SO ₂)	公噸		6.83 x 10 ⁻² 每億港元營業額
Particulate Matter (PM _{2.5})	Tonnes	0.18	0.19 x 10 ⁻² per hundred million HKD Revenue
懸浮顆粒物(PM _{2.5})	公噸		0.19 x 10 ⁻² 每億港元營業額
Volatile Organic Compounds (VOCs)	Tonnes	80	85.02 x 10 ⁻² per hundred million HKD Revenue
揮發性有機化合物(VOCs)	公噸		85.02 x 10 ⁻² 每億港元營業額
Greenhouse Gas Emissions 溫室氣體排放量 Direct Emissions ⁴ 直接排放 ⁴	Tonnes CO _{ze} 公噸二氧化碳當量	90,416.00	960.85 per hundred million HKD Revenue 960.85 每億港元營業額
Flame and Flare Combustion ⁵	Tonnes CO _{2e}	141,304.67	1,501.64 per hundred million HKD Revenue
放空火炬燃燒 ⁵	公噸二氧化碳當量		1,501.64 每億港元營業額
Indirect Emissions – Use of Electricty [。]	Tonnes CO₂e	14,105.61	149.90 per hundred million HKD Revenue
間接排放一電力使用 [。]	公噸二氧化碳當量		149.90 每億港元營業額
Flame and Flare Combustion 放空火炬燃燒 Natural Gas (Released) 天然氣放空量	′000 m³ 千立方米	551.4	5.86 per hundred million HKD Revenue 5.86 每億港元營業額
Natural Gas (Combusted)	′000 m³	172.2	1.83 per hundred million HKD Revenue
天然氣燃燒量	千立方米		1.83 每億港元營業額

³ The calculation method and respective emission factor of air emissions were based on *Technical Guide for Air Pollutant Emission Inventory for Road Vehicles (Trial)* and the 4430 Thermal Production and Supply Industries (including Industrial Boilers) published by the Ministry of Environmental Protection of the PRC.

⁴ The calculation method and respective emission factor of air emissions were based on the *Guidelines for Accounting and Reporting of Greenhouse Gas Emissions from Land-based Transportation Enterprises (Trial) and the Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions in Enterprises in Other Industries (Trial)* published by the Ministry of Environmental Protection of the PRC.

⁵ The calculation method and respective emission factor of greenhouse gases were based on IPCC Guidelines for National Greenhouse Gas Inventories.

⁶ The calculation method and respective emission factors of GHG Scope II emissions were based on the 2011 and 2012 PRC's Regional Grid Average Carbon Dioxide Emission Factor published by the National Development and Reform Commission of the PRC.

³ 大氣污染物排放的計算方法及相關排放系數計算乃根據中華人民共和國環境保護部發佈的《*道路機動車大氣污染物排放清單編制技術指南(試行)*》、中華人民共和國環境保護部環境標準研究所發佈的《*4430熱力生產和供應行業(包括工業鍋爐)*》所制訂。

4 此溫室氣體排放的計算方法及相關排放系數計算乃根據中華人民共和國環境保護部發佈的《陸上交通運輸企業溫室氣體排放核算方 法與報告指南(試行)》、《工業其他行業企業溫室氣體排放核算方法與報告指南(試行)》所制訂。

⁵ 此溫室氣體排放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「IPCC Guidelines for National Greenhouse Gas Inventories」所制訂。

⁶ 此溫室氣體範疇二排放的計算方法及相關排放系數計算乃根據中華人民共和國國家發展和改革委員會發佈的《2011年和2012年中國 區域電網平均二氧化碳排放因子》所制訂。



Employment Disclosures 僱傭披露	Unit 單位	Quantity 數量
nformation of Employment		
雇傭資料		
Total Number of Employees	No. of Persons	3,595
員工總數	人數	3,595
		·
Proportion of Employees by Gender 按性別分類的員工比例		
Vale	%	65.55%
男性	百分比	05.5570
	日 JJ LL %	24 450/
Female		34.45%
女性	百分比	
Proportion of Employees by Age Group 按年齡組別分類的員工比例		
按平虧	9/	24 200/
	%	34.20%
30歲或以下	百分比	5 4 9 9 9 (
Aged 31 to 50	%	54.90%
31歲至50歲	百分比	
Aged 51 or Above	%	10.80%
51歲或以上	百分比	
Proportion of Employee by Types of Business		
按業務類型分類的員工比例		
Supply of Pipeline Gas	%	96.13%
管道燃氣供應	百分比	
ogistics and Transportation	%	1.66%
物流運輸	百分比	
_NG Production	%	1.88%
NG生產	百分比	
Exploitation and Production of Crude Oil and Natural Gas	%	0.33%
		0.33%
荆採及生產原油及天然氣	百分比	
Employee Turnover Rate by Gender		
按性別分類的員工流失率 Mala	0/	5.90%
Male	%	5.90%
男性	百分比	0.500/
Female	%	3.50%
女性	百分比	
Employee Turnover Rate by Types of Business		
按業務類型分類的員工流失率		
Supply of Pipeline Gas	%	9.01%
蒼道燃氣供應	百分比	
ogistics and Transportation	%	0.17%
勿流運輸	百分比	
NG Production	台 JJ LL %	0.22%
		0.22%
NG生產	百分比	0.000/
Exploitation and Production of Crude Oil and Natural Gas	%	0.00%
開採及生產原油及天然氣	百分比	

(continued) (續)



APPENDIX: HKEX ESG REPORTING GUIDE INDEX 附錄:香港聯交所之《環境、社會及管治報告指引》索引

General Disclosures and KPIs 一般披露及	"Comply or explain" Provisions	Section 本報告有關章節	Page
一 _{放扱路及} 關鍵績效指標	「不遵守就解釋」	或其他説明	相關頁碼
	Environmental 環境範疇		
Aspect A1: Emission	-12 Ju +0 12		
層面A1:排放物			
General Disclosure	Information on:	6	P.28-34
	(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		
一般披露	 (a) 政策:及 (b) 政策:及 	6	P.28-34
	(d) 政束,及 (b) 遵守對發行人有重大影響的相關法律及規例的資料		
KPI A1.1	(D) 建寸到设订入有里入影響的柏蘭本律及規例的真格 The types of emissions and respective emissions data	10	P.42-44
NFIALI	排放物種類及相關排放數據	10	P.42-44
KPI A1.2	Greenhouse gas emissions in total (in tonnes) and, where	10	P.42-44
NTA1.2	appropriate, intensity (e.g. per unit of production volume, per facility)	10	1.72 77
	溫室氣體總排放量(以噸計算)及(如適用)密度(如以每產量 單位、每項設施計算)	10	P.42-44
KPI A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility)	10	P.42-44
	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	P.42-44
KPI A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility)	10	P.42-44
	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	P.42-44
KPI A1.5		6	P.28-34
	描述減低排放量的措施及所得成果	6	P.28-34
KPI A1.6	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved	6	P.28-34
	描述處理有害及無害廢棄物的方法、減低產生量的措施及 所得成果	6	P.28-34





(continued) (續)

General Disclosures and KPIs	"Comply or explain" Provisions	Section	Page
一般披露及 關鍵績效指標	「不遵守就解釋」	本報告有關章節 或其他説明	相關頁碼
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	P.28-34
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	P.28-34
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	P.42-44
	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	P.42-44
KPI A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility)	10	P.42-44
	總耗水量及密度(如以每產量單位、每項設施計算)	10	P.42-44
KPI A2.3	Description of energy use efficiency initiatives and results achieved	6	P.28-34
	描述能源使用效益計劃及所得成果	6	P.28-34
KPI A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency initiatives and results achieved	6	P.28-34
	描述求取適用水源上可有任何問題,以及提升用水效益計 劃及所得成果	6	P.28-34
KPI A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced	N/A ⁷	
	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7	
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 impact on the environment and natural resources	6	P.28-34
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	P.28-34
KPI A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them	6	P.28-34
	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	P.28-34

⁷ No packaging materials were used as the Group focus on natural gas provision and energy-related business and delivers the product through pipelines.

7 集團主要從事天然氣及能源相關之業務,天然氣及能源以傳送管輸送至用戶,並無包裝材料的使用。



General Disclosures			
and KPIs 一般披露及	"Comply or explain" Provisions	Section 本報告有關章節	Page
關鍵績效指標	「不遵守就解釋」	或其他説明	相關頁碼
	Social		
	Social 社會範疇		
Aspect B1: Employment			
層面B1:僱傭	Information on:	7	
General Disclosure	(a) the policies; and	7	P.35-38
	(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		
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、	7	P.35-38
	多元化、反歧視以及其他待遇及福利的:		
	(b) 遵守對發行人有重大影響的相關法律及規例的資料	10	P.42-44
KPI B1.1	Total workforce by gender, employment type, age group and geographical region	10	P.42-44
	安安引却,而在14g的 按性別、僱傭類型、年齡組別及地區劃分的僱員總數	10	P.42-44
KPI B1.2	Employee turnover rate by gender, age group and geographical	10	P.42-44
	region		
	按性别、年齡組別及地區劃分的僱員流失比率	10	P.42-44
Aspect B2:			
Health and Safety			
層面B2:健康與安全			D 47 25
General Disclosure	Information on:	4	P.17-25
	(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		
一般披露	有關提供安全工作環境及保障僱員避免職業性危害的:	4	P.17-25
	(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		
KPI B2.3	Description of occupational health and safety measures adopted,	4	P.17-25
	how they are implemented and monitored.	4	
	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	P.17-25
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