



DONGJIANG ENVIRONMENTAL COMPANY LIMITED*

東江環保股份有限公司

(a joint stock limited company incorporated in the People's Republic of China)

(於中華人民共和國註冊成立之股份有限公司)

Stock Code 股份代號 : 00895

2018

Environmental, Social
and Governance Report

環境、社會及管治報告



* For identification purpose only 僅

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About the Report

關於本報告

This is the Environmental, Social and Governance Report (the “**Report**” or “**ESG report**”) published by Dongjiang Environmental Company Limited (the “**Company**” or “**Dongjiang Environmental**”) and its subsidiaries (the “**Group**” or “**we**”, “**our**” or “**us**”), which summarises the principles and sustainability philosophy of the Group in fulfilling its corporate social responsibility, explains the relationships between the Group and its major stakeholders and describes our vision and commitments for corporate social responsibility.

BASIS FOR PREPARATION

This Report is prepared in accordance with the Environmental, Social and Governance Reporting Guide (the “**Guide**”) as set out in Appendix 27 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited and the scope covered is in compliance with the disclosure principles under the Guide. We have also complied with the “Comply or Explain” provisions under the Guide to address the environmental and social impacts from various business and operating activities of the Group. Please refer to the official website of the Group (www.dongjiang.com.cn) and its annual report for details of the Group’s corporate governance.

REPORTING PERIOD AND SCOPE

The content of this Report covers the practices in sustainability by the Company’s headquarters in Shenzhen and all environmental protection projects operated in China which the Company has control during the period from 1 January 2018 to 31 December 2018 (the “**Year**” or “**Reporting Period**”). The key performance indicators (“**KPIs**”) relating to the environmental subject area presented in this Report cover the Group’s segments of industrial hazardous wastes recycling, municipal waste treatment and renewable energy utilization as well as environmental protection service. We wish to increase the scope and depth of such coverage and constantly monitor our performance in sustainability in the future.

東江環保股份有限公司(下稱「**本公司**」或「**東江環保**」)及其附屬公司(下稱「**本集團**」或「**我們**」)發佈環境、社會及管治報告(下稱「**本報告**」或「**ESG報告**」)，概述本集團履行企業社會責任所秉持的原則及可持續發展理念，闡述我們與主要持份者的關係，並對企業社會責任提出願景和承諾。

編製依據

本報告按照香港聯合交易所有限公司證券上市規則附錄二十七—《環境、社會及管治報告指引》(下稱《指引》)編製而成，涵蓋內容亦符合《指引》中求的披露原則，並已遵守《指引》載列的「不遵守就解釋」條文相應地闡述本集團各類業務及營運活動對環境和社會的影響。有關本集團企業管治的詳細信息，請參閱本集團的官方網站(www.dongjiang.com.cn)及年報。

報告時間及範圍

本報告披露之內容涵蓋了於二零一八年一月一日至二零一八年十二月三十一日(下稱「**本年度**」或「**報告期**」)內本公司設於深圳的總部及本公司擁有運營控制權的所有位於中國的環保項目實踐可持續發展理念的工作。本報告所列之環境範疇的關鍵績效指標(「**KPIs**」)涵蓋本集團旗下工業危廢資源化及處理、市政廢物處理及再生能源利用、環保服務版塊，寄望未來能擴大涵蓋範圍及深度，持續監測可持續發展表現。

About the Report

關於本報告

REPORTING LANGUAGE

This report is published in Traditional Chinese and English versions, which may be downloaded from the official website of the Group (www.dongjiang.com.cn) and the HKEX website (www.hkex.com.hk).

CONTACT

We value the opinions of stakeholders and the public on this report. If you have any enquiries or recommendations, please feel free to contact us through the following ways:

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報告語言

本報告以中文繁體及英文版本發佈，可透過本集團的官方網站(www.dongjiang.com.cn)及港交所網站(www.hkex.com.hk)下載。

聯繫方式

我們非常重視各持份者和公眾對此報告的看法，若閣下有任何查詢或建議，歡迎通過以下方式與本集團聯絡：

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Message from the Chairman

董事長致辭

In order to practice the concept of the establishment of modern civilization of mankind, “Lucid Waters and Lush Mountains are Invaluable Assets”, the Group has persistently adhered to the sustainable development objective.

Under the Outline Development Plan for Guangdong-Hong Kong-Macao Greater Bay Area, urban economy will develop rapidly and it is the mission of the Group to play the role of urban environmental management expert in the construction of ecological civilization. The Group will continue to deepen development in the Pearl River Delta, Yangtze River Delta, Beijing-Tianjin-Hebei and the Bohai Economic Rim market, so as to maintain the leading position in the industry. The Group will provide sustainable one-stop integrated environmental services, assume the responsibility as a state-owned enterprise, focus on the development of its main business of industrial hazardous waste disposal, develop regional environmental treatment and protection services and offer comprehensive solutions of waste management to various cities.

The concept of sustainability is indispensable in the path of building a community of common destiny in a new era. In the implementation of the “Waste-off Action” by the government in 2018, the environmental protection inspection further strengthened the regulation on environmental pollution which led to a quick release of potential demand in the hazardous waste disposal industry. Under such circumstances, the Group is able to give full play to its corporate mission of “A World without Waste” and implements the operation and development strategies of “Capturing Market Share, Improving Areas of Weakness, Strengthening Innovation, Facilitating Transformation, Controlling Risks and Supporting Party Construction”, and makes major contribution as a state-owned enterprise, so as to tackle the difficulties in pollution prevention and control.

Accordingly, the Group has further elevated the collection, transportation and disposal and emissions standard of its hazardous waste disposal enterprises, and strictly implemented the production safety accountability system, so as to ensure production safety and operate in compliance with environmental laws and regulations, which enables the Group to reinforce its leading position and make major contribution as a state-owned enterprise.

為踐行國家「綠水青山就是金山銀山」的新時代生態文明建設理念，本集團一直堅持可持續的發展宗旨。

在國家粵港澳大灣區的規劃綱領下，城市經濟急速發展，恪守生態文明建設是本集團擔當城市環境管理專家的使命。本集團將繼續深耕深耕珠三角、長三角、京津冀與環渤海等區域市場，鞏固行業領先地位，提供可持續的一站式綜合環保服務，踐行國有企業職責，聚焦發展危廢處置主業，配套發展區域環境治理和環保服務，為城市廢物管理提供整體解決方案。

可持續發展，在構建新時代人類命運共同體的路途上是不可或缺的理念。國家在2018年推進的「清廢行動」中，環保督查增強了對環保污染行為的監管力度，危廢處置行業的潛在需求得到快速釋放，使本集團「讓世界沒有垃圾」的企業理念得以充分發揮，貫徹「搶市場、補短板、強創新、促轉型、控風險、抓黨建」的經營發展主線，發揮國有企業骨幹力量，打好污染防治攻堅戰。

因此，本集團進一步提升危廢處置企業在收運處理及排放標準，嚴格落實安全生產主體責任，確保安全生產和環保持法合規經營，令本集團鞏固龍頭地位，為建設發揮國有企業骨幹力量。

Message from the Chairman

董事長致辭

During 2018, the Group actively expanded its project portfolio. It secured the Dananhai Hazardous Waste Disposal Project in Jieyang City, Guangdong Province, set up an environmental protection cooperation platform in Huizhou City, Guangdong Province, and participated in the investment of Jieyang Ousheng Garbage Incineration Project, further deepening its coverage in Guangdong.

During the Reporting Period, the Company completed 3 construction projects, implemented the project construction and began the operation as planned. Meanwhile, it is expected that the projects under construction of the Group will increase our annual treatment capacity by over 250,000 tons by 2020. Such projects include Tangshan Caofeidian Wandesi Project, Nantong Dongjiang Project, Foshan Fulong Project, Fujian Nanping Project, Huaxin Environmental Project, Jiangxi Dongjiang Recycle Project and Xiamen Dongjiang Project. To ensure our sustaining and effective development, the Group promoted a number of proposed projects during the Reporting Period, establishing abundant project reserve. Upon the completion of these projects, our annual treatment capacity is expected to increase by over 500,000 tons.

As the 70th anniversary of the founding of the People's Republic of China, 2019 is a critical year for building a moderately prosperous society and tackling the challenges in pollution prevention and control, which is also critical for Dongjiang Environmental in deepening reform and actively contributing to the construction of ecological civilization. With the nationwide call for pollution prevention and control, China will continue to take environmental protection as a major task and facilitate green development with great efforts, and the competition in environmental protection industry will gradually intensify. In line with the national development strategy, the Group will seize opportunities to accelerate the construction of projects, optimize the structure of hazardous waste disposal qualification, strengthen the capital operation and make rational adjustment to its industry coverage. Meanwhile, the Company will explore new businesses and new models such as environmental housekeeping services and EPC+O, strengthen technology research and development, continue to improve the production process, and enhance product quality so as to establish the brand of Dongjiang products.

本集團於2018年積極拓展項目，分別在廣東揭陽市及惠州市取得大南海危廢處置項目及設立環保合作平台，參與投資揭陽歐晟垃圾焚燒處理項目，進一步深化廣東佈局。

本公司在報告期內完成3個建設項目，並按計劃推進項目建設及投產運營。同時，本集團的在建項目，預計將在2020年形成超過25萬噸／年的增量處置能力，包括唐山曹妃甸萬德斯項目、南通東江項目、佛山富龍項目、福建南平項目、華鑫環保項目、江西東江資源化項目和廈門東江項目等。為確保本集團之持續有效發展，報告期內亦推動多項擬建項目，大大豐富了項目儲備，建成後預計可以新增超過50萬噸／年的處置能力。

展望2019年，是新中國成立70周年，是決勝全面建成小康社會、打好污染防治攻堅戰的關鍵之年。2019年，也是東江環保深化改革、積極投身生態文明建設的關鍵一年。隨著全國污染防治攻堅戰全面打響，國家將維持環保高壓態勢，並大力推動綠色發展，環保行業競爭也將逐步加劇。本集團將配合國家發展戰略，抓緊機遇，加快推進項目建設，優化危廢資質結構，強化資本運作，合理調整產業佈局。同時，探索環保管家服務、EPC+O等新業務新模式，加強技術研發，持續改進工藝，提升產品質量，樹立東江產品品牌。





Message from the Chairman

董事長致辭

All our staff members will continue to be dedicated to exploring the new path of China's high quality development that prioritizes ecological environment and focuses on green development.

我們全體員工將繼續鞠躬盡瘁，共同為國家探索以生態優先、綠色發展為導向的高品質發展新路徑。



Tan Kan
Chairman
July 2019

譚侃
董事長
二零一九年七月

Sustainable Development Strategy

可持續發展戰略

While promoting its business development, the Group prioritizes corporate social responsibility, actively reduces the potential impact of its operation on the environment and aims to contribute more to society.

在推動業務發展同時，本集團將企業社會責任視為業務營運的要務，積極減少對環境可能帶來的影響，並為社會發展作出更大的貢獻。

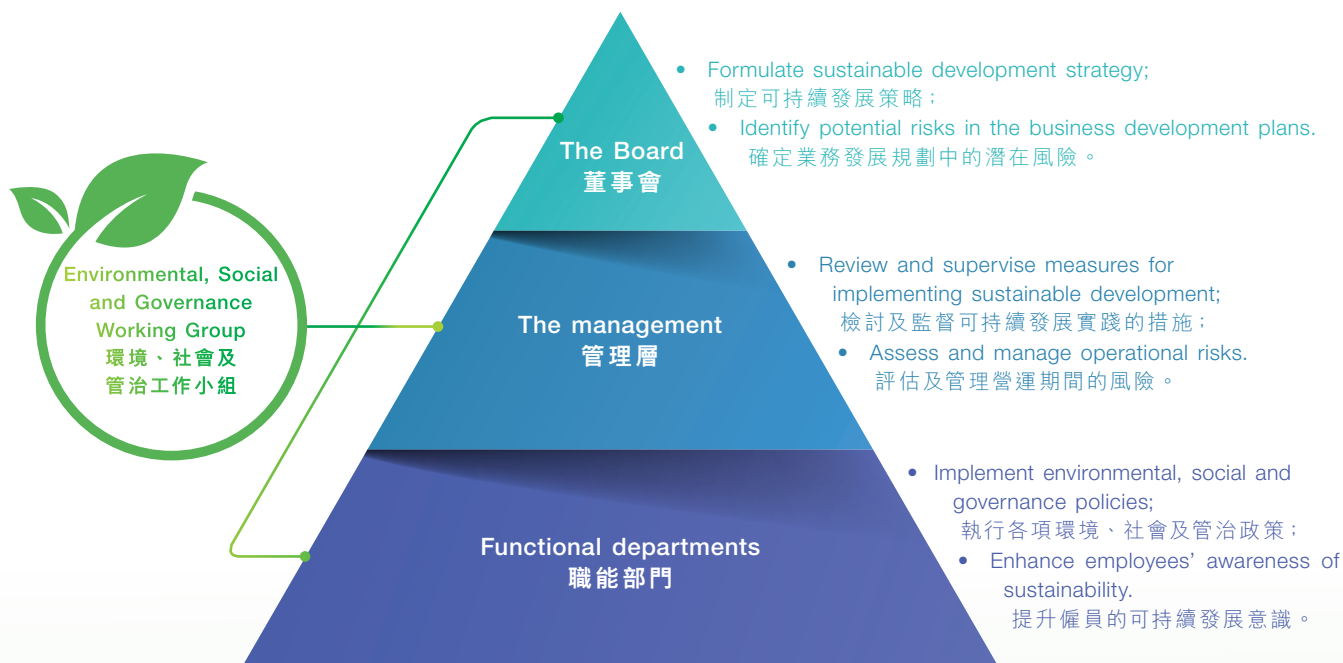
3.1. ENVIRONMENTAL, SOCIAL AND GOVERNANCE SYSTEM

The Group has been committed to combining the concept of sustainability with the Company's overall strategies, policies and business plans. During the Year, we established an ESG Working Group with the aim of managing risks related to environmental, social and governance ("ESG") issues more effectively and promoting the implementation of ESG policies by all departments.

3.1. 環境、社會及管治體系

本集團一直致力將可持續發展的理念與公司的整體策略、政策及業務計劃結合。本年度，我們成立了環境、社會及管治工作小組，希望能更有效地管理環境、社會及管治的相關風險，及推動各部門執行各項環境、社會及管治政策。

Environmental, Social and Governance structure 環境、社會及管治架構



Our Board assumes full responsibility of our ESG strategies and reporting and leads the ESG Working Group (comprising the Company's executive directors, segment heads and representatives of major departments) to coordinate and determine the effectiveness of the Group's ESG risk management and internal control system.

3.2. STAKEHOLDER ENGAGEMENT

The Group sees stakeholder engagement as the basis for strategy development and decision making which helps us identifying existing and potential risks and opportunities. Stakeholder engagement is also an integral part of our sustainable development strategy. Through waste management and environmental services and utilizing the advantage of our business coverage, we connect with stakeholders including shareholders/ investors, customers, employees, government/regulatory authorities, suppliers, community and research and development institutions. During the Year, we interacted with stakeholders through various communication channels to fully understand their expectations and aspirations.

本集團董事會對環境、社會及管治策略及匯報承擔全部責任，並帶領由公司執行董事、板塊負責人及各主要部門代表組成的環境、社會及管治工作小組，負責統籌及釐定本集團就環境、社會及管治的風險管理及內部監控系統的有效性。

3.2. 持份者參與

本集團視持份者參與為制定戰略及實施決策的基礎，有助我們釐定現有和潛在的機遇及風險，亦是我們的可持續策略不可或缺的一環。我們通過廢物管理和環境服務，以自身產業佈局的優勢連接各持份者，包括股東／投資者、客戶、僱員、政府／監管機構、供貨商、社會各界及研發機構。我們透過各溝通渠道與持份者進行互動，深入瞭解他們對本集團可持續發展方面的期望與訴求。

Major stakeholders 主要持份者	Expectations and aspirations 期望與訴求	Main communication channels 主要溝通途徑
 Shareholders/ Investors 股東／投資者	• Robust operational compliance • 穩健合規運營 • Good returns on investment • 良好投資回報 • Effective risk management • 有效的風險管理 • Protection of intellectual properties • 知識產權保護	• General meetings • 股東大會 • Annual reports • 年報報告 • Regular announcement • 定期公告 • Shareholders visits • 股東參觀活動 • "Investor Relations" section • 投資者關係專欄

Sustainable Development Strategy

可持續發展戰略

Major stakeholders 主要持份者	Expectations and aspirations 期望與訴求	Main communication channels 主要溝通途徑
 Government/ Regulatory authorities 政府／監管機構	• Comprehensive solutions • 全面解決方案 • Environmental compliance • 環保合規 • Supporting community livelihood • 支持社區民生	• Regular reports • 定期報告 • Meetings • 會議 • Site visits • 現場考察 • Written responses to public consultation • 對諮詢的書面回應
 Customers 客戶	• Quality products and services • 優質商品和服務 • Scientific research and development • 科研及開發	• Website and emails of the Group • 集團網頁及郵箱 • Daily operation/ exchange • 日常營運／交流 • Opinion survey • 意見調查
 Employees 僱員	• Stable employment • 提供穩定就業 • Reasonable benefits • 合理福利待遇 • Safe working environment • 安全工作環境	• Performance appraisal • 工作表現評核 • Employee survey • 僱員調研 • Employee meeting • 員工會議
 Suppliers 供應商	• Integrity and mutual benefit • 誠信互惠 • Fair purchase • 公平採購	• Procurement procedures • 採購程序 • Supply chain management system • 供應鏈管理制度
 Community 社會各界	• Promoting social harmony • 促進社會和諧 • Supporting charity activities • 支援公益活動 • Advocating energy saving and emissions reduction • 宣導節能減排	• Charity activities • 開展公益活動 • Environmental protection education • 環保教育 • Opinion survey • 意見調查

Major stakeholders 主要持份者	Expectations and aspirations 期望與訴求	Main communication channels 主要溝通途徑
 Research and development institutions 研發機構	• Technological exchanges and cooperation • 技術交流與合作	• Meeting • 會議 • Site visit • 現場考察

With the nationwide call for pollution prevention and control, China will continue to strengthen the protection and restoration of ecosystems, expand green and environmental protection industry and promote green development with great effort. Therefore, the external environment will give rise to challenges and also provide new development opportunities and momentum for the Group. The Group adhered to its corporate mission of “A World without Waste” and openly and proactively listened to and understood the concerns of stakeholders when it determined the ESG scope to be covered by this report. The Group focuses on four major areas: “Environmental Management”, “Standard Operation”, “Talent Development” and “Community Development”. It is hoped that the internal and external stakeholders of the Group will work together on sustainable development.

隨著全國污染防治攻堅戰全面打響，國家將繼續加強生態系統保護修復，壯大綠色環保產業，大力推動綠色發展。因此，外部環境既帶來了挑戰，也為本集團創造了新的發展機遇和動力。秉持「讓世界沒有垃圾」的企業使命，採取開放和主動的態度聆聽及瞭解各持份者關切的領域，從而釐定本報告的環境、社會及管治應涵蓋的範疇。本集團專注做好四大範疇：「環境管理」、「規範運營」、「人才發展」、「社區建設」，希望促使集團上下，以及集團內外不同相關利益相關方，共同為履行可持續發展而努力。

Sustainable Development Strategy

可持續發展策略

Sustainable development strategy

可持續發展策略





Core Business of the Group

集團核心業務

The Company was established in 1999. It is a holding subsidiary of Guangdong Province of Guangdong Rising Assets Management Co., Ltd. and is an environmental protection company listed in Shenzhen and Hong Kong (HK00895, SZ002672). The Group is a one-stop integrated environmental service provider. Driven by technological innovation, the Group has established operations covering the whole industry chain based upon the main business of harmless disposal of industrial (hazardous) wastes and recycling of resources and supplemented by municipal waste treatment, water treatment, environmental engineering and environmental testing business with the aim of providing customized services to enterprises of different development stages and offering comprehensive solutions of waste management to various cities.

本公司創立於1999年，是廣東省屬企業廣東省廣晟資產經營有限公司的控股子公司，深港兩地上市環保企業(HK00895，SZ002672)。本集團是一站式綜合環保服務提供商，致力於以技術創新為導向，以工業(危險)廢物的無害化處置和資源化利用為基礎，配套發展市政廢物處理、水治理、環境工程、環境檢測等業務，構建完整產業鏈，為企業的不同發展階段提供定制化服務，為城市的廢物管理提供整體解決方案。

4.1. PARTY BUILDING OF STATE-OWNED ENTERPRISE

Dongjiang Environmental has a total of over 200 Party members in June 2016. In 2018, under the guidance of Xi Jinping's thought on socialism with Chinese characteristics for a new era and taking "Standardised Building" as the theme, the Group insisted on placing equal emphasis on both Party building and production and operation. It strived to promote Party building work along with enterprise development through simultaneous planning, deployment and implementation, controlling the "Steering Wheel" for corporate governance properly and contributing to the Company's high quality development unremittingly.

The Group took enhancing political building as the overarching principle, strictly abided by political rules and discipline, earnestly organised and convened Party Committee meeting, thoroughly implemented pre-study by the Party Committee and gave full play to the role of the Party Committee as a leading core and political core; took ideology building as the core, earnestly conducted theory studying sessions of the Party Committee Center Group and the thematic education of "Remaining True to Our Original Aspiration and Keeping Our Mission firmly in mind", thoroughly implemented arrangement of the "Great Study, In-depth Research and True Implementation" activity of the Provincial Committee, promoted the normalization and institutionalization of the study and education of "Two

4.1. 國企黨建

東江環保於2016年6月，共有黨員200餘名。2018年，東江環保黨委以習近平新時代中國特色社會主義思想為指導，以「規範化建設」為主題，堅持黨建和生產經營兩手抓、兩手硬，全力推動黨建工作與企業發展同謀劃、同部署、同落實，把好公司治理方向盤，為公司高質量發展做出不懈努力。

本集團以政治建設為統領，嚴守政治規矩和政治紀律，認真組織召開黨委會，貫徹落實黨委會前置研究，充分發揮黨委領導核心和政治核心作用；以思想建設為核心，認真開展黨委中心組理論學習會和「不忘初心、牢記使命」主題教育，貫徹落實省委「大學習、深調研、真落實」活動部署，推動「兩學一做」學習教育常態化制度化，擰緊黨員理想信念這個總開關；以組織建設為基本，貫徹執行「三會一課」和主題黨日

Core Business of the Group

集團核心業務

Studies, One Action” to “Tasten the Main Switch” of Party members’ ideology and belief; took organisation building as the basis, thoroughly implemented the system of “Three Meetings and One Class” and Thematic Party Day, and established Party branch in units with matured conditions to carry out standardised building of Party branches, giving full play to the role of Party branches as strongholds; focused on innovative Party building and translated the political advantage of the Party into the development advantage of the enterprise in respect of the Company’s strategic planning and operation, ensuring the high quality development of the enterprise.

4.2. INTRODUCTION OF THE GROUP’S BUSINESS

Under the strong support of our state-owned shareholder, the Group has entered a new development stage. While leveraging on the advantages of capital, talent, standardised management and government resources possessed by a state-owned enterprise, we maintain highly effective market mechanism and creativity and adhere to the Party’s basic line, reflecting the Party’s requirement of strict self-governance in our business operations.



The Group adheres to the principle of sustainability in its operation and is dedicated to improving the quality of the environment. It strives to become a leading enterprise in the hazardous waste industry with the largest scale, most complete qualifications and most standardised operation. The Group provides comprehensive waste treatment services to various cities, adheres to the strategic direction of innovation-driven development, strives to secure the leading position in the industry in terms of research and development and application of advanced technology and creates drivers for the its high quality development. From the global perspective, the Group is making strides in achieving the sustainable development goals set by the United Nations. It is committed to developing sustainable city and community, and works strenuously for the realization of economic prosperity, social inclusion, and environmental protection as an ‘indivisible whole’ by 2030.

制度，在條件成熟的單位成立黨支部，開展黨支部規範化建設，充分發揮黨支部戰鬥堡壘作用；以黨建創新為重點，圍繞公司戰略規劃和經營管理，把黨的政治優勢轉化為企業發展優勢，為企業高質量發展保駕護航。

4.2. 集團業務簡介

在強大的國有股東後盾支持下，本集團進入嶄新的發展階段，充分發揮國企在資金、人才、規範化管理及政府資源等優勢，同步保持高效運作的市場化機制及創造力，堅持黨的基本路線，把全面從嚴治黨的要求體現在業務營運之中。



本集團堅守可持續發展的原則經營業務，為改善環境質量克盡己任，致力成為危廢行業中，規模最大、資質最全、運營最規範的龍頭企業。本集團為城市提供全面的廢物處理服務，時刻堅持創新引領發展的戰略指向，搶佔行業高新技術研發應用的制高點，為高品質發展創造原生動力。放眼世界，本集團亦全力邁向聯合國提出的可持續發展目標，致力發展可持續城市 and 社區，為2030年實現經濟增長、社會包容與環境美好的三位一體協調發展而努力。





Core Business of the Group

集團核心業務



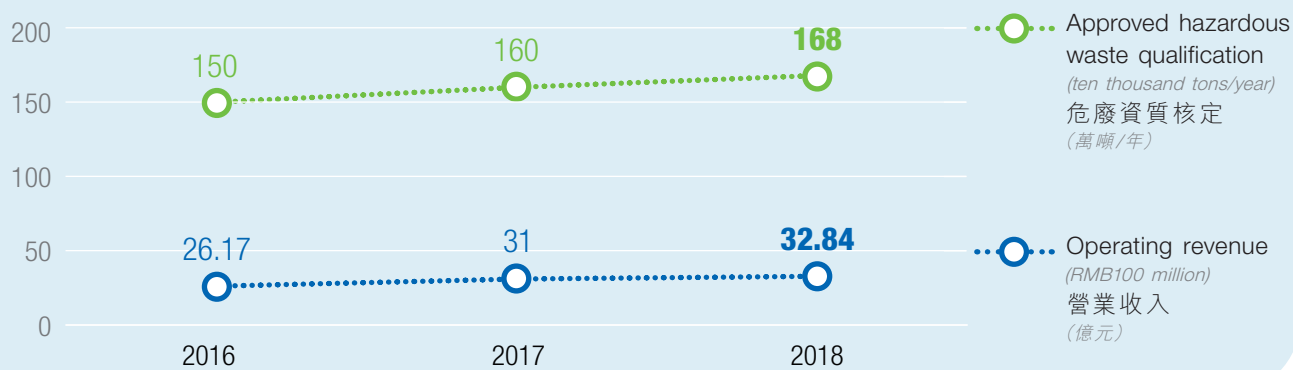
Under the 13th Five-year Plan, the Group has achieved rapid development and gradually established a multi-sector coverage with harmless treatment, recycling and utilisation of industrial and municipal wastes as the core, covering the Guangdong-Hong Kong-Macao Greater Bay Area, the Yangtze River Delta, the Bohai Economic Rim and the Midwest region. During the Reporting Period, the Group adhered to the direction of strategic development, consolidated its resources, adjusted the business structure, improved the quality of recycled products, increased its market shares in the harmless treatment of hazardous waste and resource production business and obtained qualification for hazardous waste of nearly 1.70 million tons/year up to now.

本集團在《十三五規劃》下實現快速發展，逐步形成了覆蓋粵港澳大灣區、長三角、環渤海及中西部地區，以工業及市政廢物無害化處理及資源化利用為核心的產業佈局。報告期內，本集團堅持戰略發展方向，致力於整合資源，調整業務結構，提升資源化產品質量，增加了危險廢物無害化處理及資源化生產業務市場份額，截至目前，已取得工業危險廢物資質近170萬噸／年。

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Approved Quantity of Hazardous Waste Qualification 危廢資質核定量



Note: Operating revenue is up to 31 December 2018; approved quantity of hazardous waste qualification is up to 31 March 2019

附註：營業收入截至2018年12月31日；危廢資質核定量截至2019年3月31日

During the Year, the Group put in more effort to develop its market. The Company accumulated over 26,000 customers, and recorded year-on-year growth of 25% in both overseas sales volume and sales amount of recycled products, eliminating potential threat of environmental pollution for various cities while achieving stable business growth. During the Reporting Period, the Group recorded operating revenue of RMB3.284 billion, representing an increase of approximately 5.95% as compared to the same period of 2017. The operating revenue of industrial waste treatment and disposal, our core business, was RMB1.287 billion, representing a year-on-year increase of approximately 10.22%, and the operating revenue of recycled products was RMB1.228 billion, representing a year-on-year increase of 3.96%.

本年度，本集團更積極拓展市場，公司在期客戶已超過2.6萬家，海外資源化產品銷量及銷售額同增長25%，為城市消除環境污染的隱患，並實現業務穩健增長，本集團於報告期內營業收入32.84億元人民幣，較2017年同期增長約5.95%。作為本集團核心業務的工業廢物處理處置，營業收入為12.87億元，同比增長約10.22%，資源化產品營業收入為12.28億元，同比增長3.96%。

Furthermore, the Group continued to increase its effort in developing hazardous waste projects, enhanced the hazardous waste disposal capacity to match market demand, facilitated the construction of projects with different technical routes and expedited the optimization and adjustment of hazardous waste disposal qualification. During the Year, the Group actively facilitated the preliminary work

此外，本集團繼續加大危廢項目拓展力度，提高公司的危廢處置能力和匹配市場需求，推進不同技術路線的項目建設，加快危廢處置資質的優化調整。本年度，本

of proposed projects while carried out renewal of operation licenses, which laid a key foundation for the sustainable development and leapfrog development of the Group.

As for the business of municipal waste treatment and disposal, it is a sector vital for building a moderately prosperous society and improving people's lives. Therefore, the Group put unremitting efforts to improve treatment efficiency to meet people's growing needs for a better life. During the Reporting Period, municipal waste treatment and disposal recorded a total of over 55 million tons of municipal waste treatment, representing an increase of approximately 32% compared with 2017 while renewable energy business of landfill gas power generation projects generated 170 million kWh in 2018, which can reduce greenhouse gas ("GHG") emissions and help cities to address climatic change.

The Group constantly strengthened its sense of responsibility, upheld the safe development concept, strengthened the management of environmental protection and safety works, conducted internal self-inspection and rectification for existing problems and risks in strict accordance with the opinions from different levels of environment protection inspection, and followed up to formulate standardized operating procedures with stricter requirements for safety and environmental protection works. The Group performed the obligation of environmental protection as required by the laws, ensured lawful operation and compliant emissions and successfully achieved a "Zero Occurrence" of the Class 1 Accident.

During the Reporting Period, on the basis of safe development and for the building of a national integrated circular economy and facilitating the construction of ecological civilization in the community of common destiny, the Group developed over 100 new customers for recycled products, representing a year-on-year increase of approximately 72%, strengthened its business cooperation, developed new long-term customers and ensured stable procurement volume of recycled products. During the Reporting Period, its overseas market of recycled products

集團積極推進擬建項目的前期工作，同時開展經營許可證的換證工作，為實現可持續發展、跨越式發展奠定關鍵基礎。

至於市政廢物處理處置的業務，對於全面建成小康社會，改善人民生活尤關重要。故本集團努力不懈提升處理效率，以滿足人民日益增長的美好生活需要。報告期內市政廢物處理處置量錄得合共超5,500萬噸市政廢物處理量，較2017年增加約32%；而利用填埋氣發電項目的再生能源業務，於2018年發電量達1.7億度，減少溫室氣體排放，為城市應對氣候變化作出貢獻。

本集團不斷強化責任和擔當意識，牢固樹立安全發展理念，加強環保安全管理工作，嚴格按照各級環保檢查提出的意見，針對現存的問題和風險開展自查自糾活動，並跟進制定更嚴謹的安環工作操作標準流程，依法履行環保責任，依法運行達標排放，成功實現一級事故「零發生」。

在安全發展的基礎上，本集團為建立全球一體化的循環經濟，促進人類命運共同體的生態文明建設，報告期內新增開拓100餘家資源化產品客戶，同比增長約72%，並提高業務合作量，開拓全新長期客戶，形成資源化產品的穩定採購量。報告期內，資源化產品海外市場更開拓至一帶一路，

Core Business of the Group

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was expanded to “Belt and Road” countries, including seven countries such as Philippines, Pakistan and Japan. We recorded year-on-year growth of over 200% in both overseas sales volume and sales amount of recycled products.

In addition to the economic benefits brought by the development of business, the Group comprehensively examined, for two consecutive years, the benefits brought by its business to the community. The Group made connection with upstream and downstream customers, government and community and joint hand with them to build our green environment one step at a time, demonstrating the results of sustainable development under concerted efforts. 2019 will be a critical year for Dongjiang Environmental in tackling difficulties and deepening reform. International situation is complicated and ever-changing; the economy is facing increasing downward pressure; and the industry competition continues to intensify. As the Central Government continues to carry out its second round of environmental protection supervision and inspection which will last for four years, environmental protection issues will remain as a major task in China. The Group will adhere to the policy of taking hazardous waste disposal as its core business to create a “Harmonious and Win-Win” situation for the Group, society and environment.

4.3. OVERVIEW OF TECHNOLOGICAL ACHIEVEMENTS

The Group has always insisted on driving its development with technology, and constantly speeds up the commercialization of technological achievements. This Year, the Group actively expanded its research team, recruited more research and development personnel and actively established industry benchmark in terms of research and innovation. The Group has its own research institute, and strives to conduct research and development of cutting-edge technology, introduce new technology, seek technological cooperation and realise

新增開拓菲律賓、巴基斯坦及日本等7個國家，海外資源化產品銷量及銷售額同比增長均超過200%。

在業務發展所帶來的經濟效益以外，本集團已連續兩年全面檢視業務為社會創造的效益，連接上下游客戶，政府及社會各界，一步一腳印為青山綠水攜手建設，展現全體同心協力開拓的可持續發展成果。2019年將是東江環保攻堅克難、深化改革的關鍵一年，國際形勢複雜多變，經濟下行壓力加大，行業競爭持續加劇，為期四年的中央第二輪環保督查仍在持續進行，國家環境保護將維持高壓態勢。本集團將堅守以危廢處置為業務核心之方針，實現社會與環境的「和諧·共贏」。

4.3. 技術成就概覽

本集團始終堅持以技術引領企業發展，不斷加速科研成果的轉換。去年，本集團積極擴大研究團隊，增聘研發人員，積極打造行業科研創新標桿。本集團設有研究院，致力於開展前沿技術研發、技術引進及合作並產業化應用。通過不斷開發和創新，現擁有工業廢液、廢渣、城市生活垃圾處





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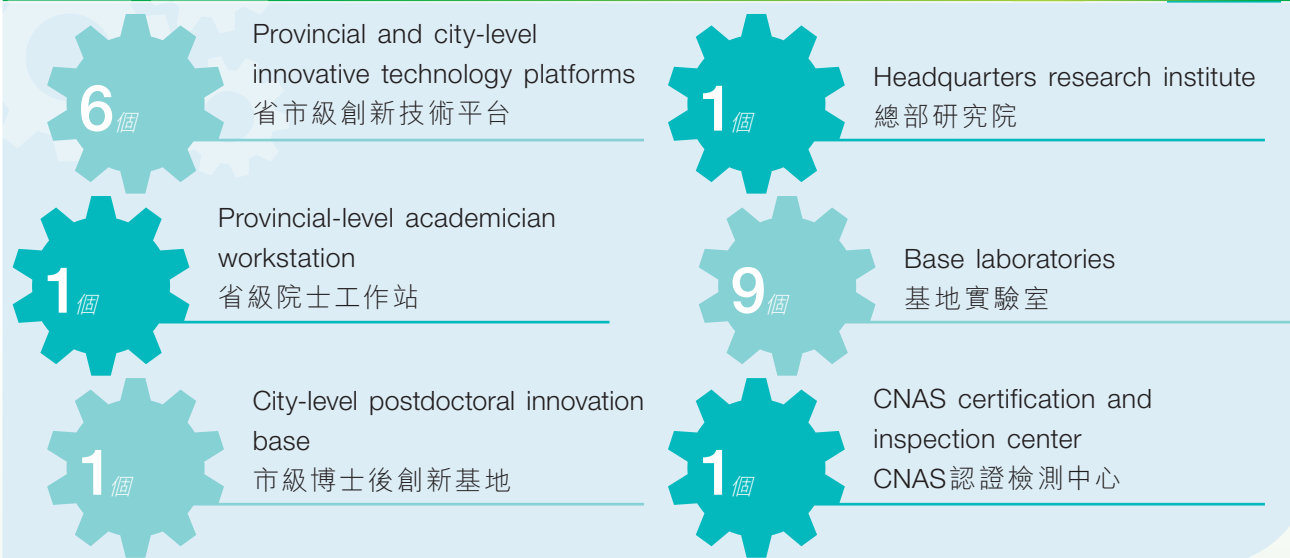
集團核心業務

industrialized application. As a result of its unceasing work of development and innovation, the Group now possesses numerous core technologies in industrial waste liquid, waste residue and urban domestic garbage treatment, sludge treatment, kitchen waste treatment and recycling, and has extensive technological reserve and research and development achievements in the sectors of industrial hazardous waste treatment and municipal solid waste treatment, disposal and comprehensive utilization. As of the Reporting Period, the Company had 277 authorized patents and enjoyed a leading position among domestic peers in terms of its overall technological level.

理、污泥處理、餐廚垃圾處理和資源化利用的多項核心技術，並形成在工業危險廢物及城市固體廢物處理處置和綜合利用等領域，掌握豐富的技術儲備和研發成果。截止報告期，公司已獲得授權專利277項，整體技術水平處於國內同行業領先地位。

The Group's Investment in Technological Research and Development 本集團技術研發投資	2018 2018年	2017 2017年	Percentage change 變動比例
Number of R&D personnel 研發人員數量(人)	449	296	51.69%
Percentage of R&D personnel 研發人員數量佔比	9.83%	6.72%	3.11%
R&D investment (RMB) 研發投入金額(人民幣)	166,704,032	163,972,943	1.67%

R&D Establishment 研發建設



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Award and Recognition

獎項肯定



6
項

Science and technology awards received
獲得科技獎項

1
項

Second prize of National Science and Technology Progress
國家級科技進步二等獎

3
項

Provincial-ministerial level awards
省部級獎項

2
項

Department-municipal level awards
廳市級獎項

R&D AND INTRODUCTION OF NEW TECHNOLOGY

During the Reporting Period, the Group actively promoted technological innovation in line with the development of new business. To match the operation of the tin recycling business and solve the environmental issue in the production process, the Group independently researched and developed the tin hydride denitration technology. The Group also developed the techniques for recycling of waste ethyl acetate, which enables it to establish production facilities of a scale matching market demand and to recycle waste ethyl acetate. The Group also commenced the trial production project with cleaning agent for the removal of scaling in the evaporator with the aim of enhancing the production efficiency of the MVR evaporator.

新技術研發和引進

本集團於報告期積極推進技術創新，配合新業務的發展。為配合錫回收業務的開展，解決生產過程中遇到的環保問題，本集團自主研發錫泥脫硝的技術；本集團亦進行廢乙酸乙酯資源化工藝開發，令集團具備建立符合市場需求相應規模之生產裝置，及進行廢乙酸乙酯的資源化回收的條件；為提升MVR蒸發器的生產效率，本集團亦開展蒸發器結垢的藥劑清洗試生產項目。



4.4. LIST OF AWARDS

Since its establishment, the Group had been recognized as the “National Key Environmental Enterprise”, “National Major Demonstration Projects in Resources Saving and Environmental Protection”, “First Group of Circular Economy Pilot Enterprises” and “National High and New Technology Enterprise”. In 2018, the Group received more recognitions from a number of organizations and authorities, including Market Supervision Administration of Shenzhen Municipality, Nanshan District People’s Government of Shenzhen Municipality and IE expo China, which reflects the result achieved under the joint effort of the Group.

4.4. 獎項一覽

成立以來，本集團先後被評為「國家環保骨幹企業」、「國家資源節約與環境保護重大示範工程單位」、「國家首批循環經濟試點單位」和「國家高新技術企業」等。2018年，本集團更進一步得到多個單位頒發榮譽證書的肯定，包括深圳市南山區人民政府、中國環博會等，反映出本集團上下過去一年共同努力的成果。

Awards 獎項名稱	Awarding Body 發證機構
Certificate of Guangdong Province Credible Enterprise 2017 2017年度廣東省「守合同重信用」企業公示證書	Market Supervision Administration of Shenzhen Municipality 深圳市市場監督管理局
Certificate of “Green Channel Enterprise” of Nanshan District 南山區「綠色通道」企業榮譽證書	Nanshan District People’s Government of Shenzhen Municipality 深圳市南山區人民政府
Guangdong Environmental Protection Brand Enterprise 廣東環保品牌企業	IE expo China 中國環博會
Top 100 Enterprises of Shenzhen Brands at the First Award 首屆深圳品牌百強企業	Shenzhen Quality City Promotion Association 深圳市質量強市促進會
China’s Strategic and Emerging Environmental Industry Leading Enterprise 2018 2018年度中國戰略性新興環保產業領軍企業	Environmental Protection Alliance of China Strategic and Emerging Industry 中國戰略性新興產業環保聯盟
Solid Waste Industry Segment Leading and Single-Capacity Leading Enterprises, Leading Enterprises in the Field of Hazardous Waste 2018 2018年度固廢細分領域領跑及單項領跑企業危險廢棄領域領先企業	E20 Environmental Platform/ www.solidwaste.com.cn E20環境平台／中國固廢網

Environmental Management

環境管理

As the industrialization and concentration in the solid waste treatment market in China remains at a low level with only a few enterprises that possess core competitiveness and the industry has the characteristics of strict technical requirements for disposal and large upfront investment in projects, forming a high industry barrier.

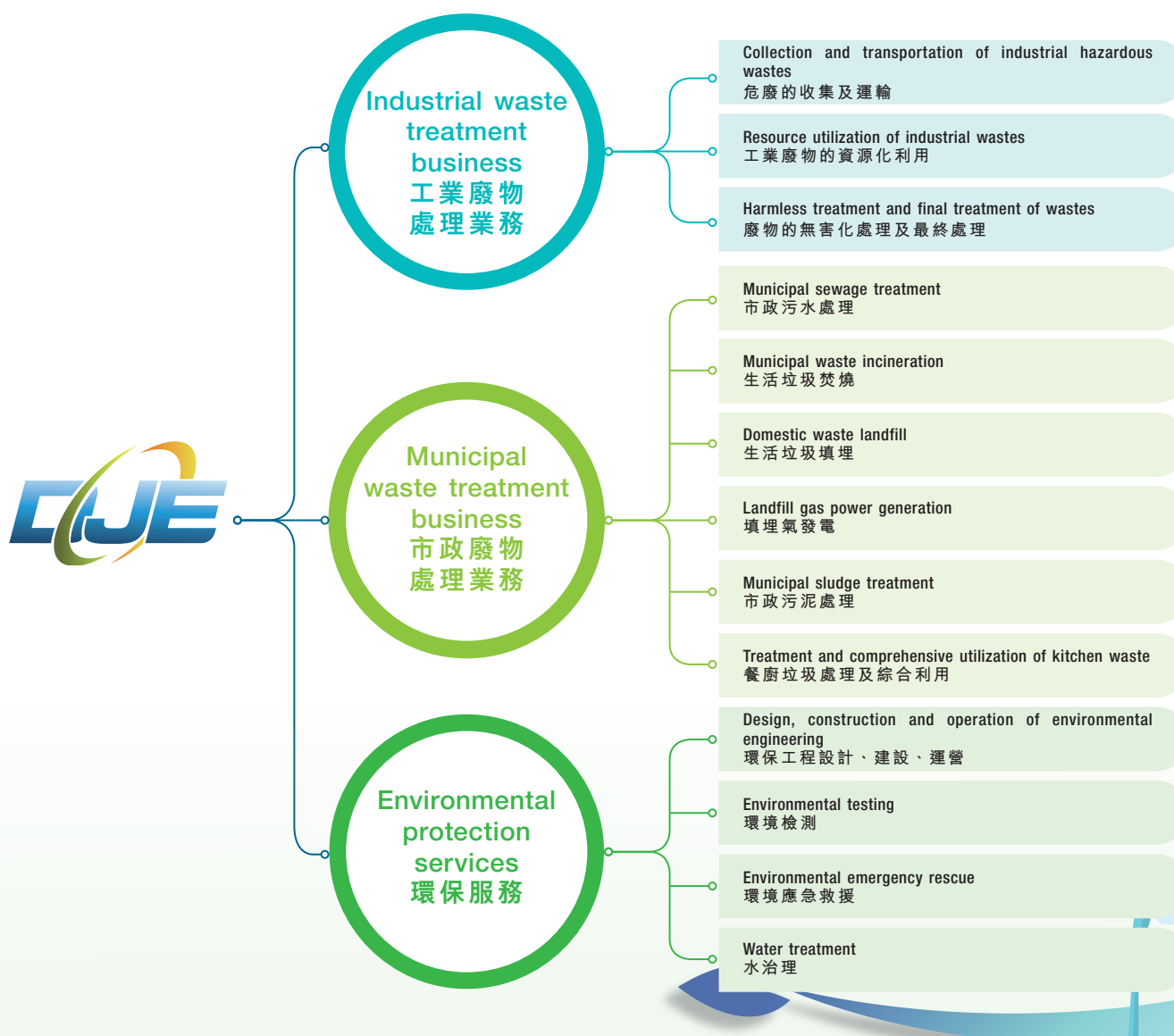
Therefore, as the leading state-owned enterprise in the industry, the Group will proceed firmly and steadily, insist on creating development advantages in environmental management business, with advanced techniques, equipment, technology, extensive experience in operation management and robust capital strength.

由於中國固廢處理行業的產業化程度和市場集中度較低，具備核心競爭力的企業較少，而且行業處置技術要求嚴謹，項目前期投資規模龐大等特徵，形成高行業壁壘。

因此，本集團身為行業內的領先龍頭國有企業，將以堅實的步伐砥礪前行，堅持在環境管理業務範疇上打造發展優勢，領先工藝、設備、技術，豐富經營管理經驗及雄厚資金實力。

Company Business Structure

公司業務結構



As at 2018, the Group has expanded its business through new establishments, mergers and acquisitions, etc. It has more than 70 subsidiaries covering the Guangdong-Hong Kong-Macao Greater Bay Area, the Yangtze River Delta, the Bohai Rim and the Midwest region, providing services to all parts of the country. Industrial wastes disposal networks are also set in major industrial hazardous waste provinces such as Guangdong, Jiangsu, Zhejiang, Shandong, Fujian, Jiangxi, Hubei, Hebei, and Xinjiang, occupying China's core industrial hazardous waste market. The Group is a leader in the environmental protection industry. To enhance transparency, we will fully explain to stakeholders the performance of our core businesses in sustainable development in the following sections.

截至2018年，本集團通過新設、併購和收購等方式拓展業務，已擁有70多家子公司，覆蓋粵港澳大灣區、長三角、環渤海及中西部地區，為全國各地提供服務，更於廣東、江蘇、浙江、山東、福建、江西、湖北、河北及新疆等工業危廢大省的工業廢物處置網絡，佔據中國核心的工業危廢市場。本集團既身為環保行業的領跑者，為加強透明度，故將於以下章節充份向各利益相關者闡釋核心業務在可持續發展上的表現。



Environmental Management

環境管理

5.1. ENVIRONMENTAL PROTECTION BUSINESS

This report will be based on selection of five major subsidiaries in the core business to comprehensively report the Group's results of environmental protection efforts and to explain the Group's significant development in sustainable development.

The Group stresses compliance with laws for operation and strictly abides by the laws and regulations of the state and regulatory agencies, including the Environmental Protection Law of the People's Republic of China, the Economic Promotion Law of the People's Republic of China, National Ecological Environmental Protection Program and Environmental Impact Assessment Law of the People's Republic of China, etc. The Group continues to strengthen corporate governance and risk prevention control mechanisms to improve the comprehensive management system and achieve rapid and steady development of the Group.

Therefore, in its existing projects under construction, the Group strictly follows the environmental assessment report and the relevant requirements of the approval to construct wastewater and waste gas pollution control facilities. In respect of wastewater treatment, wastewater generated in each process is classified with advanced treatment and subsequently enters the biochemical treatment system. After being treated by the membrane, it is discharged to the municipal sewage treatment plant for qualified discharge. Regarding incineration of flue gas, the Group keeps on exploring new processes and technologies with an aim to effectively remove or reduce hazardous gases.

In order to strictly control business risks and conduct the lawful and safe operation, the Group implements multiple layers of safety measures: "Three Countermeasures", "Three Simultaneous" and "Three-level Safety Education" (「全三對策、三同時及三級安全教育」) to ensure that the Group always gives the highest priority to safety in its policies, construction and staff management. The Group also publishes the environmental impact assessment report and the real-time monitoring results on its official website, thereby providing information on pollutant emissions to the public. Furthermore, the key pollutant discharge units set up an automatic monitoring system of source of pollution, which is interconnected with the local Environmental Protection Bureaus to proactively provide a solid foundation for the supervision of the environmental protection department.

5.1. 環保業務

本報告將於核心業務中選取五家主要子公司，以求較全面地將本集團對環境保護的效益匯報，並闡述本集團於可持續發展方面長足的發展。

本集團堅持依法合規經營，嚴格遵循國家及監管機構的法律法規，包括《中華人民共和國環境保護法》、《中華人民共和國循環經濟促進法》、《全國生態環境保護綱要》、《中華人民共和國環境影響評價法》等，持續加強企業治理及風險防控機制，以完善全面管理系統，實現本集團的快速穩健增長與發展。

因此，本集團在現有在建項目中，嚴格按照項目環評報告書及批覆的有關要求，建設廢水、廢氣等防治污染設施。在廢水治理方面，對各工藝環節中產生的廢水進行分類深度處理後，進入生化處理系統，並經膜處理達標後，外排或進入市政污水廠，實現穩定達標排放；在焚燒煙氣治理方面，本集團不斷探索新工藝、新技術以求有效去除或減少有害氣體。

為嚴格控制業務風險，履行合規合法的安全運營，本集團實行多層的安全措施：安全三對策、三同時及三級安全教育，以確保本集團在政策、施工，以及員工管理方面，全方位秉持安全至上的精神。本集團亦將環境影響評估報告和監測結果實時公佈於官方網站，讓公眾監察污染物排放。而重點排污單位更設有與地方環保局聯網的污染源自動監控系統，主動為環保部門的監督提供堅實的基礎。



5.1.1. INDUSTRIAL WASTE TREATMENT AND RECYCLING

The Group has various hazardous waste treatment bases with physical and chemical treatment, biological treatment, incineration heat treatment, safe landfill and other related treatment methods.



Through the combination of different technical routes, the complex and wide variety of industrial hazardous wastes are recycled, detoxified and finally disposed. The Company possesses the qualification for 44 categories of hazardous waste operations among the 46 categories set out in the National Hazardous Waste List with more than 200 types of wastes for treatments, serving more than 26,000 customers and eliminating potential pollution hazards across the country.

The Group's business development in industrial hazardous waste treatment and recycling will help promote the UN Sustainable Development Goal 12 — "Ensure Sustainable Consumption and Production Patterns", which clearly states that by 2020, the world needs to achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment.

Through the recycling of waste containing heavy metals, the Group's output of recycled products is more than 80,000 tons per year and accumulated energy saving of about 50,000 tons of standard coal which reduces GHG emissions equivalent to the creation of a GDP value of RMB450 million, supporting the vision of the UN Sustainable Development Goal 12 — "By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse".

5.1.1. 工業廢物處理及資源化利用

本集團建有物理化學處理、生物處理、焚燒熱處理、安全填埋等相關處理手段的多種危險廢物處理基地，通過不同技術路線



的組合，對複雜多樣的工業危險廢物進行資源化利用、無害化處理及最終處置。本集團目前已擁有《國家危險廢物名錄》46大類中，44大類危險廢物運營資質，處理種類達200餘種，服務的客戶2.6萬餘家，為全國不同地區消除污染隱患。

本集團在工業危廢處理及資源化利用的業務發展上，將有助推動聯合國可持續發展目標12—「採用可持續的消費和生產模式」，當中明確指至2020年，全球需要實現化學品和所有廢物在整個存在週期的無害環境管理，並大幅減少它們排入大氣以及滲漏到水和土壤的機率，盡可能降低它們對人類健康和環境造成的負面影響。

本集團通過對含重金屬廢物的資源化利用，每年輸出再生產品逾8萬噸，累計節能約5萬噸標準煤，減少的溫室氣體排放量相當於創造4.5億元人民幣之GDP產值，支持聯合國可持續發展目標12中，提出於2030年，通過預防、減排、回收和再利用，大幅減少廢物產生的願景。

Environmental Management

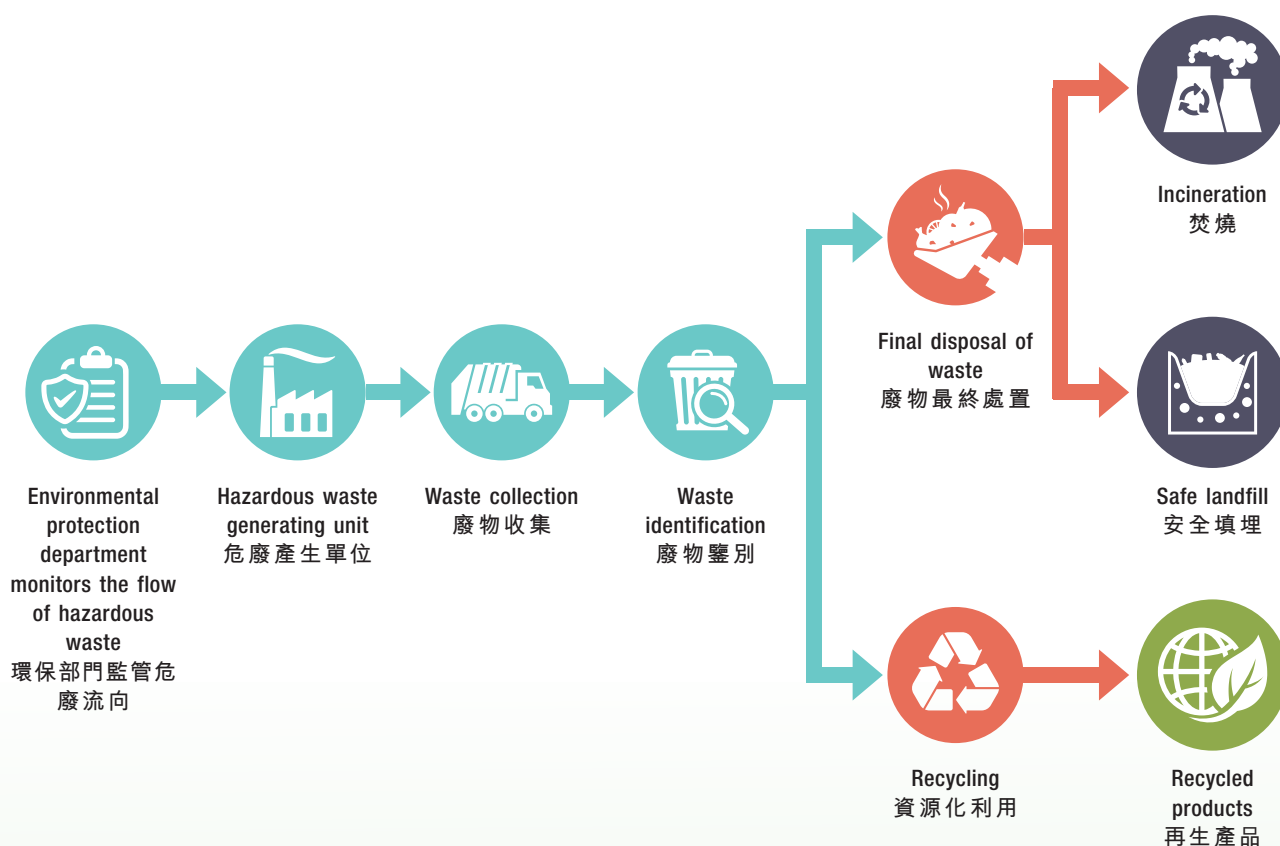
環境管理

In the process of industrial waste treatment and recycling, the Group adopts high-standard operating standards from collection, transportation to disposal, and the waste is transported by professional transport vehicles equipped with seamless GPS monitoring of hazardous waste. Therefore, the Group strictly abides by relevant national and local environmental protection laws and regulations, including the Environmental Protection Law of the People's Republic of China, the Standard for Pollution Control on General Industrial Solid Waste Storage and Disposal Site, the Standard for Pollution Control on Hazardous Waste Storage (GB18597.2001), the Standard of Pollutants Emission Standards of Urban Sewage Water Treatment Plant (GB18918-2002), the Measures for the Administration of Hazardous Waste Business Licenses, and the Administrative Measures for Transfer Manifests of Hazardous Wastes, etc.

在工業廢物處理及資源化利用的過程中，本集團從收集，運輸到處理，均採用高規格的運營標準，由配備全程無縫GPS監控危險廢物的專業運輸車輛收運。故此，本集團嚴格遵守國家和地方相關的環保法律和法規，包括《中華人民共和國環境保護法》、《一般工業固體廢物貯存、處置場污染控制標準》、《危險廢物貯存污染控制標準》(GB18597.2001)《城鎮污水處理廠污染物排放標準》(GB18918-2002)、《危險廢物經營許可證管理辦法》及《危險廢物轉移聯單管理辦法》等等。

Treatment Process

工業危險廢物業務模式



Zhuhai Yongxingsheng Environmental Industrial Waste Recycling and Integrated Treatment Co., Ltd.

Zhuhai Yongxingsheng Environmental Industrial Waste Recycling and Integrated Treatment Co., Ltd. (hereinafter referred to as “**Zhuhai Yongxingsheng**”) was established in December 1998. In 2015, Dongjiang Environmental Company Limited officially became the controlling shareholder of Zhuhai Yongxingsheng.

Zhuhai Yongxingsheng is an environmental treatment enterprise engaging in solid waste treatment with high-tech environmental protection technology. Its principal business is detoxification treatment, recycling and incineration treatment of industrial hazardous waste. The total treatment scale of industrial hazardous waste reaches 109,500 tons/year, including 300,000 waste drums, producing products such as alkaline copper, copper sulfate, copper ingots, etc. At present, it possesses the qualifications for collection, treatment, comprehensive utilization and incineration of 16 categories of hazardous waste, including pharmaceutical waste, waste medicine, distillation residue, organic solvent waste, waste mineral oil, waste acid, waste alkali, etc., as well as the treatment of sludge and wastewater containing heavy metals such as copper and nickel. It also possesses the qualification for road transport of dangerous goods. With 8 dangerous goods transport vehicles and 3 tankers, it can provide one-stop service for various solid and liquid hazardous wastes from collection at the place of generation, transportation, temporary storage, detoxification and disposal. It provides hazardous waste disposal services to more than 500 enterprises in Zhuhai, accounting for more than 60% of local waste-generating enterprises.

珠海市斗門區永興盛環保工業廢棄物回收綜合處理有限公司

珠海市斗門區永興盛環保工業廢棄物回收綜合處理有限公司(下文簡稱「**珠海永興盛**」)成立於1998年12月，2015年東江環保股份有限公司正式成為珠海永興盛的控股股東。

珠海永興盛是一家以環保高新技術經營固體廢物處理的環保處理企業，主營業務為工業危廢無害化處理、資源化利用及焚燒處理，工業危險廢物總處理規模達到10.95萬噸／年，含廢物包裝桶30萬隻，產品有鹼銅、硫酸銅、銅錠等。目前擁有16大類危險廢物的收集、處理、綜合利用、焚燒資質，包括醫藥廢物、廢藥品、蒸餾殘渣、有機溶劑廢物、廢礦物油、廢酸、廢鹼等，以及含銅、鎳等重金屬的污泥、廢水的處理。同時擁有危險貨物道路運輸資質，自有廂式危險貨物運輸車輛8台、槽罐車3台，能提供各類固態、液態危險廢物從產生地進行收集、運輸、暫存、無害化處置等「一站式」服務，為珠海市500多家企業提供危險廢物處置服務，佔當地產廢企業60%以上。

Environmental Management

環境管理

2018 Recycling Results 2018年資源化利用成果

Recycling Rate 資源化比率	62%
Copper Sulfate 硫酸銅	1,280.5 tons 1,280.5噸
Alkaline Copper 鹼銅	1,866.1 tons 1,866.1噸

Zhuhai Yongxingsheng has been recognized as the National High and New Technology Enterprise in Guangdong Province. In order to seize the opportunities of hazardous waste industry and regional development to facilitate the further development of Dongjiang Environmental in Zhuhai and Guangdong, Zhuhai Yongxingsheng will continue to expand its production capacity and consolidate its business, improve its qualification and capacity structure and seek business breakthroughs, so as to develop into an important hazardous waste disposal base on the Western Pearl River Delta. During the course of continuous operation, Zhuhai Yongxingsheng's incineration process adopts two technologies, namely pyrolysis gasification incinerator and rotary kiln incinerator, to ensure that major pollutants are below relevant national regulatory limits and engage qualified units to monitor the discharge of pollutants after treatment every year.

珠海永興盛曾先後被評為廣東省高新技術企業，為緊抓危廢行業和區域發展機遇，助力東江環保在珠海乃至廣東區域產業佈局的深入，珠海永興盛將不斷擴大產能和夯實業務，完善資質和產能結構，謀求經營突破，發展成為珠三角西側重要的危險廢物處置基地。在持續運營中，珠海永興盛焚燒工藝採用熱解氣化焚燒爐和回轉窯焚燒爐兩種技術，確保主要污染物均低於國家相關法規上限，並每年委託合資格單位對處理後的污染物排放進行監測。



The data from certain monitoring points of Zhuhai Yongxingsheng for 2018 was as follows:

2018年度珠海永興盛部分監測點位的監測情況如下：

Name of Company	Names of Major Pollutants and Characteristic Pollutants 主要污染物及特徵污染物的名稱	Concentration Emission Limit (Water: mg/l) (Gas: mg/m ³) 排放濃度限值 (水: mg/l) (氣: mg/m ³)	Pollutant Discharge Standards Implemented 執行的污染物排放標準	Total Emissions (ton/year) 排放總量 (噸/年)	Total Ratified Emissions (ton/year) 核定的排放總量 (噸/年)
Zhuhai Yongxingsheng Environmental Industrial Waste Recycling and Integrated Treatment Co., Ltd.	Wastewater: Chemical oxygen demand ("COD"), ammonia nitrogen (NH-N)	COD: 90 NH-N: 10	The secondary standard of the second period set forth in the Emission Limits of Air Pollutants, Guangdong Province (DB44/27-2001); the first class-B graded standard of the Pollutants Emission Standards of Urban Sewage Water Treatment Plant (GB18918-2002)	COD: 0.061278 NH-N: 0.00755	COD: 6.14 NH-N: 0.68
珠海市斗門區永興盛環保工業廢棄物回收綜合處理有限公司	廢水: 化學需氧量 ("COD")、 氨氮	COD: 90 氨氮: 10	廣東省《大氣污染物排放限值》(DB44/27-2001)第二時段二級標準; 城鎮污水處理廠污染物排放標準(GB18918-2002)一級B標準	COD: 0.061278 氨氮: 0.00755	COD: 6.14 氨氮: 0.68

Environmental Management

環境管理



Jiangmen Dongjiang Environmental Technology Ltd.

Jiangmen Dongjiang Environmental Technology Ltd. (hereinafter referred to as “**Jiangmen Dongjiang**”) is a comprehensive environmental protection enterprise specializing in the harmless treatment, disposal and resources utilization of industrial hazardous wastes. It always takes environmental protection and resources recycling as its responsibility and actively advocates and promotes the development model of the circular economy in accordance with three principles, “Reduction, Recycling and Harmlessness”. It has designed a comprehensive solution for different types of waste. Through advanced and sophisticated process facilities and treatment technologies, various types of waste can be safely disposed of or recycled.

The total investment in Jiangmen Dongjiang is approximately RMB348 million with a site area of 133,000 square meters. Treatment facilities include copper waste treatment workshop, waste mineral oil workshop and materialized treatment workshop, etc. Officially operated since 2016, Jiangmen Dongjiang has an annual industrial hazardous waste processing capacity of 198,500 tons and 250,000 waste drums. Jiangmen Dongjiang can handle 13 categories of industrial hazardous wastes by mainly collecting and treating industrial wastes generated by economic development of Jiangmen and the Greater Bay Area. Currently, Jiangmen Dongjiang is a large-scale industrial hazardous waste processing and recycling base in China which is trusted by thousands of customers with a long-term cooperation.

江門東江環保技術有限公司

江門市東江環保技術有限公司(以下簡稱「**江門東江**」)是一家專業從事工業危險廢物無害化處理處置及資源化利用的綜合性環保企業，始終以保護環境、資源再造為己任，積極倡導並推行循環經濟的發展模式，按照「減量化、資源化、無害化」的三大原則，針對不同類別的廢物設計出妥善的綜合解決方案，通過先進完善的處理工藝設施和處理技術，使各類廢物均可得到安全妥善的處理處置或資源化利用。

江門東江項目總投資額約3.48億元人民幣，佔地13.3萬平方米，處理設施包括含銅廢物處理車間、廢礦物油車間、物化處理車間等，並於2016年正式投產，年工業危險廢物處理能力為19.85萬噸，以及廢包裝桶25萬隻，可處理13大類工業危險廢物，主要收集和處理江門及大灣區經濟發展所產生的工業廢物，是目前國內規模較大的工業危險廢物綜合處理及回收利用基地，已獲得上千家客戶的信任並保持長期合作。

2018 Recycling Results

2018年資源化利用成果

Recycling Rate 資源化比率	76%
Alkaline Copper 鹼銅	4,389.7 tons 4,389.7噸
Copper Sulfate 硫酸銅	3,584.0 tons 3,584.0噸

Jiangmen Dongjiang produces copper sulfate, basic copper chloride, copper oxide and other copper salt products through comprehensive treatment and recycling, and conducts minimization and detoxification treatment through physicochemical, evaporation and biochemical processes before disposal to maximize the recycling rate and achieve maximum annual output of approximately 30,000 tons of recycled products.

Jiangmen Dongjiang has advanced emergency equipment and professionals to independently complete emergency treatment of various environmental accidents and reduce pollution and risks of hazardous chemicals or wastes to the surrounding environment. Adhering to the rigorous management philosophy and high environmental awareness, Jiangmen Dongjiang has passed ISO14001 Environmental management, ISO9001 Quality management and OHSAS18001 Occupational health and safety management system certification, and reduced pollution and risks of hazardous chemicals or wastes to the surrounding environment through copper-containing waste treatment and recycling with advanced technology; through the recycling of waste organic solvents and waste mineral oil; through the cleaning, derusting and painting treatment of waste containers; and through the completion of treatment for various environmental accidents. Sewage discharge reaches The III type standard of the Environmental Quality Standard for Surface Water. Jiangmen Dongjiang has disposed numerous industrial hazardous wastes in local and surrounding environment and reduced potential risks to the environment.

江門東江通過綜合處理及資源化充分利用，生產硫酸銅、鹼式氯化銅、氧化銅等系列銅鹽產品，並通過物化、蒸發、生化處理系統進行減量化、無害化處理處置，實現資源利用最大化，最高年輸出量可達約3萬噸資源化產品。

江門東江擁有先進的應急裝備和專業人員，多次獨立完成了各種環境事故的應急處理，減少危險化學品或廢物對周邊環境的污染以及風險；秉承嚴謹的管理理念和高度的環保意識，通過ISO14001環境管理、ISO9001質量管理及OHSAS18001職業健康安全管理體系認證，並以先進的技術通過含銅廢物處理和資源化綜合利用；通過廢有機溶劑和廢礦物油的再生利用處理；通過對廢舊包裝桶的清洗、除銹、噴漆處理；通過完成各種環境事故的應急處理，減少危險化學品或廢物對周邊環境的污染以及風險，污水排放達到《地表水環境質量標準》III類標準，解決當地及周邊環境較多工業危險廢物出路問題，減少對環境的潛在風險。

Environmental Management

環境管理

Major pollutant emissions of Jiangmen Dongjiang were as follows:

2018年度江門東江主要污染物排放如下：

Name of Company	Names of Major Pollutants and Characteristic Pollutants 主要污染物及特徵污染物的名稱	Concentration Emission Limit (Water: mg/l) (Gas: mg/m ³) 排放濃度限值 (水: mg/l) (氣: mg/m ³)	Pollutant Discharge Standards Implemented 執行的污染物排放標準	Total Emissions (ton/year) 排放總量 (噸/年)	Total Ratified Emissions (ton/year) 核定的排放總量 (噸/年)
Jiangmen Dongjiang Environmental Technology Ltd.	Wastewater: COD, NH-N	COD: 20 NH-N: 1	The III type standard of the Environmental Quality Standard for Surface Water (GB 3838-2002)	COD: 1.143 NH-N: 0.009	COD: 3.3 NH-N: 0.17
江門市東江環保技術有限公司	廢水: COD、氨氮	COD: 20 氨氮: 1	《地表水環境質量標準》(GB 3838-2002) III類標準限值	COD: 1.143 氨氮: 0.009	COD: 3.3 氨氮: 0.17

5.1.2. ENVIRONMENTAL ENGINEERING AND SERVICES

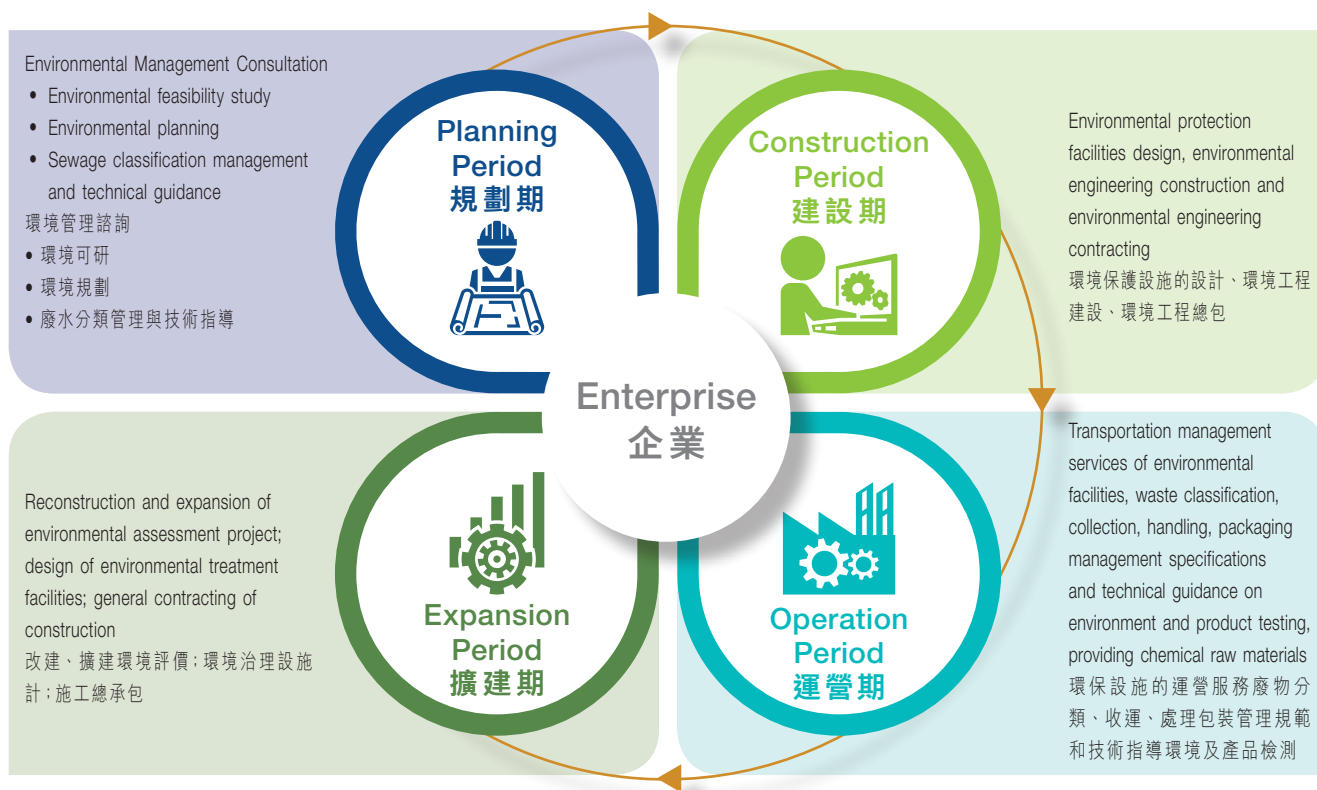
The Group is committed to being the leader in the environmental industry by providing one-stop integrated environmental services, tailor-made environmental services and value-added services for enterprises, including environmental engineering and services. Environmental engineering and services mainly provide technical consultation, design, construction, operation management, environmental impact assessment and environmental testing of environmental protection facilities engineering. It also specializes in the business of industrial wastewater treatment, providing tailor-made wastewater treatment solutions for electroplating, circuit boards, printing and dyeing, papermaking, electronics, petrochemical, electricity, metallurgy, automotive, coal, food, starch, pharmaceutical and beverage industries. Addressing the UN Sustainable Development Goal 6 — “Ensure Access to Water and Sanitation for All”, which aims to improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater by 2030, the Group will continue to establish effective practices.



5.1.2. 環保工程及服務

本集團致力提供一站式綜合環保服務，做受人尊敬的環保產業領跑者，為企業度身訂造環保服務及增值性業務，包括環境工程及服務。環境工程及服務主要是提供環境保護設施工程的技術諮詢、設計、建設、運營管理，以及環境影響評價和環境檢測等；亦主力經營工業廢水處理的業務，為電鍍、線路板、印染、造紙、電子、石化、電力、冶金、汽車、煤炭、食品、澱粉、製藥及飲料等多個行業，提供度身訂造的廢水處理方案，為聯合國可持續發展目標6—「為所有人提供水和環境衛生並對其進行可持續管理」，於2030年，通過減少污染，消除傾倒廢物現象，把危險化學品和材料的排放減少到最低限度，將未經處理廢水比例減半，本集團將持續創造有效的實踐方案。





Dongjiang Environmental Company Limited Engineering Branch

Dongjiang Environmental Company Limited Engineering Branch (hereinafter referred to as the “**Engineering Branch**”) provides one-stop services for environmental engineering design, construction and operation management for different types of customers.

東江環保股份有限公司工程服務分公司

東江環保股份有限公司工程服務分公司（下稱「**工程服務分公司**」）為不同類型的客戶提供環境工程設計、建設和運營管理的一站式服務。

Environmental Management

環境管理

The Engineering Branch possesses the National Environmental Pollution Prevention Engineering Design Grade B Certificate, Wastewater Special Engineering Design Grade B Certificate, Certificate of Evaluation of Operating and Servicing Capacity of Domestic Sewage and Industrial Wastewater Treatment Facilities and Environmental Protection Facilities Operation Qualification Certificate, etc. With experienced professional environmental engineering design, construction and operation teams, the Engineering Branch can provide one-stop environmental engineering services from planning, feasibility study, environmental assessment consulting to design, construction and third-party commissioned operation. The services cover electroplating, circuit boards, printing and dyeing, papermaking, municipal and hazardous waste landfill leachate, industrial park integrated wastewater, municipal sewage, and pharmaceutical wastewater, etc. With an experience of handling more than 100 projects in engineering service, the Engineering Branch has treated 5.28 million cubic meters and recycled 3.69 million cubic meters of wastewater in 2018, achieving a recycling rate of 69%.

Regarding the municipal sewage treatment projects undertaken by the Company, an internationally advanced three-dimensional ecological treatment technology is introduced. The ammonia nitrogen removal rate of sewage is over 98% and the total nitrogen removal rate is over 90%. Treated effluent reaches The IV type standard of the Environmental Quality Standard for Surface Water (GB 3838-2002) or the more stricter standard. Meanwhile, sewage treatment plants can be built into urban gardens. The total design capacity of Heyuan Chengnan Wastewater Treatment Plant is 50,000 tons/day, which consists of the first phase of 30,000 cubic meters per day (completed) and the second phase of 20,000 cubic meters per day. The current actual treatment capacity is approximately 23,000 cubic meters per day. The total site area is 80,000 square meters, of which the wastewater treatment plant covers an area of 50,000 square meters and the artificial wetland covers an area of 30,000 square meters. It mainly collects and treats domestic sewage and certain industrial wastewater in Chengnan District.

工程服務分公司具有國家環境污染防治工程設計乙級、廢水專項工程設計乙級、生活污水和工業廢水治理設施運行服務能力評價證書、環境保護設施運營等資質證書，並擁有經驗豐富的專業化環保工程設計、施工、運營團隊，可為客戶提供從規劃、可研、環評諮詢到設計、建設、第三方委託運營的一站式環保工程服務。服務領域涵蓋電鍍、線路板、印染、造紙、市政與危險廢物填埋場滲濾液、工業園區綜合廢水、市政污水、醫藥廢水等，具有百餘項工程服務經驗，2018年廢水運營量達528萬立方米，回用量達369萬立方米，回用率高達69%。

在所承接的市政污水處理項目中，引進國際先進的立體生態處理技術，污水氨氮去除率大於98%、總氮去除率大於90%，處理出水水質達到《地表水環境品質標準》(GB3838-2002) IV類標準，甚至更高，同時可將污水處理廠建設成城市花園。河源城南污水處理廠設計總規模5萬噸／日，一期3萬立方米／日(已建成)，二期2萬立方米／日，目前實際處理規模約為2.3萬立方米／日。總佔地面積8萬平米，其中污水處理廠佔地5萬平米、人工濕地佔地3萬平米，主要收集處理城南片區的生活污水和部分工業生產廢水。



In addition, the Company also attaches great importance to research and development and introduction of new technologies for sewage treatment and environmental protection projects. Regarding construction and operation of industrial wastewater engineering projects, the Company's self-developed "Breaking reactor + Bioreactor" electroplating and circuit board wastewater treatment new process or MBST combined treatment process can effectively remove hazardous pollutants in electroplating and circuit board wastewater. Final discharge of wastewater reaches The V type standard of the Environmental Quality Standard for Surface Water (《地表水環境品質標準》) (GB 3838-2002) and wastewater recycle rate can reach over 60%.

In the electroplating and circuit board industry, the Company successfully overcame various technical barriers and developed four innovations in wastewater treatment, including: reduction of COD and total phosphorus pollutants, ensuring stable quality of wastewater discharge; sludge water membrane separation treatment process is not affected by the fluctuation of influent water quality; the maximum use efficiency of solution is ensured with a small and recyclable dosage of solution; and fully automated control is achieved with a small volume of sludge and simple operation.

另外，公司還特別重視污水處理新工藝及環保工程建設新技術的研發和引進工作。在承建與運營的工業廢水工程項目中，採用公司自主研發的「破絡反應器+生物反應器」電鍍、線路板廢水處理新工藝，或MBST組合處理工藝，可有效去除電鍍與線路板廢水中的有害污染物，最終排放廢水達到《地表水環境品質標準》(GB3838-2002) V類標準，廢水回用率可達到60%以上。

在電鍍及線路板的行業中，公司成功突破多項技術關卡，在廢水處理上發展出四個創新點，包括：降減COD和總磷污染物，保障廢水排放的穩定達標；泥水膜分離處理工藝不受進水水質波動影響；加藥量小，可循環使用，保證藥品的最大使用效率；污泥量小，操作簡單，完全實現自動化控制。

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5.1.3. MUNICIPAL WASTE TREATMENT

The municipal solid waste treatment and disposal business is an important part of “Building a Beautiful China”. The Group provides five solutions for the treatment of municipal waste. For the domestic waste treatment business, the annual treatment capacity, leachate treatment capacity and treatment capacity of kitchen waste is approximately 2 million tons, 360,000 tons and 100,000 tons, respectively. For the municipal wastewater treatment, municipal sewage is treated with three-dimensional ecological treatment technology. For the domestic waste incineration and power generation integrated project in which the Company participated, 1,000 tons of domestic waste can be processed per day theoretically, and the annual on-grid electricity generated exceeds 100 million kilowatt hours, converting waste into electricity to propel the urban development.



As for the landfill gas power generation business, there are currently five landfill gas power generation projects, and the Group has invested a total of RMB250 million for the construction of Xiaping landfill gas power generation project, Qingdao Xiaojianxi West landfill gas power generation project, Shenzhen Laohukeng landfill gas power generation project, Hefei Longquanshan domestic waste landfill gas power generation project and Nanchang Maiyuan garbage disposal site landfill gas power generation project. The total capacity of five landfill gas power generation plants reaches 24MW, generating more than 170 million kWh electricity for over 170,000 households throughout the year. Thus, we are committed to promoting the UN Sustainable Development Goal 7 — “Affordable and Clean Energy”.

5.1.3. 市政廢物處理

市政固廢處理與處置業務正是落實「建設美麗中國」的關鍵，本集團在市政垃圾的處理上提供五大方案。在生活垃圾處理的業務上，年處理能力約200萬噸，滲濾液處理規模約36萬噸／年，餐廚垃圾年處理能力約10萬噸；市政污水處理則以立體生態處理技術為核心，淨化市政污水；至於垃圾焚燒發電綜合設施，設計規模每日可處理1,000噸生活垃圾，轉化為電力為城市發展注入動力。



至於填埋氣發電業務，目前有5個填埋氣發電項目，本集團累計投入2.5億元，先後投資建設下坪垃圾填埋氣發電項目、青島小澗西垃圾填埋氣發電項目、深圳老虎坑垃圾填埋氣發電項目、合肥市龍泉山生活垃圾填埋氣發電工程項目和南昌麥園垃圾處理場填埋氣發電項目。五個填埋氣電廠的總裝機容量達24MW，年發電量超過1.7億度，可供超過17萬戶居民全年使用。可見，我們致力推動聯合國可持續發展目標7—「經濟適用的清潔能源」。



Dongguan Humen Water Co., Ltd.

Founded in June 2006 and officially put into operation in October 2009, Dongguan Humen Water Co., Ltd. (hereinafter referred to as “**Humen Green**”) is currently a sub-subsidiary of Dongjiang Environmental Company Limited. It has two sewage treatment plants, namely Humen Ningzhou Sewage Treatment Plant Phase I (covering an area of approximately 100,000 square meters) and Humen Haidao Sewage Treatment Plant Phase I (covering an area of approximately 12,000 square meters), which are designated to treat municipal wastewater in Humen Town.

Humen Green obtained the franchise to operate Ningzhou Sewage Treatment Plant and Haidao Sewage Treatment Plant in Humen Town, with a term of 25 years. It is mainly responsible for collecting domestic sewage from the east of Taiping Waterway in Humen Town and domestic sewage from Weiyuan Island in Humen Town, so that the sewage will be purified to meet the quality standard to be discharged into a certain water body or reused. It processes more than 100,000 tons of sewage per day and serves a population of about 850,000.

Humen Green processed over 40 million tons of municipal wastewater in 2018 through its two sewage treatment plants. After being filtered by the coarse grid, the sewage is pumped by the lift pump to the fine grid, and then flows into the grit chamber for sedimentation before entering the biochemical tank. Subsequently, it enters the sedimentation tank for sedimentation, and eventually discharges through the UV disinfection channel in compliance with the discharge standards. The domestic sewage and production wastewater in the plant area are collected by the internal sewage pipeline network of the plant and then converged into the coarse grid to be processed by the treatment facilities together with the external municipal sewage before discharge. Fully adopting rigorous operating guidelines to control emissions from daily operations, the emissions from the two wastewater treatment plants meet the requirements of the first class-B graded standard of the Pollutants Emission Standards of Urban Sewage Water Treatment Plant (GB18918-2002) first class B standard, the COD also meets the first standard of the second period set forth in the Emission Limits of Water Pollutants, (DB44/26-2001) Guangdong Province.

東莞市虎門綠源水務有限公司

東莞市虎門綠源水務有限公司(下稱「**綠源水務**」)成立於2006年6月，2009年10月正式投產，現為東江環保股份有限公司控股孫公司，下屬有兩個污水處理廠，分別為虎門寧洲污水處理廠一期(佔地面積約10萬平方米)、虎門海島污水處理廠一期(佔地面積約1.2萬平方米)，專門處理虎門鎮範圍內的市政污水。

綠源水務取得虎門鎮寧洲污水處理廠和海島污水處理廠特許運營權，特許經營期限均為25年。主要負責收集虎門鎮太平水道以東地區的居民生活污水和虎門鎮威遠島的生活污水，對污水進行淨化的過程，使其達到排入某一水體或再次使用的水質要求，每日平均處理超過十萬噸污水，服務社區人口約85萬人。

綠源水務於兩間污水處理廠，2018年合共處理超過4,000萬噸市政污水。污水經粗格柵過濾後由提升泵提升至細格柵，及後流入沉砂池沉澱後再進入生化池，然後進入沉澱池沉澱，再經紫外消毒渠消毒後達標排放；廠區內的生活污水和生產廢水經廠區內部污水管網收集後匯入粗格柵，與外部市政污水一起經廠內的處理設施處理後達標排放。兩間污水處理廠排放均合乎《城鎮污水處理廠污染物排放標準》(GB18918-2002)一級B標準，其中COD合乎廣東省《水污染物排放限值》(DB44/26-2001)第二時段一級標準的要求。

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Total emissions from Ningzhou Sewage Treatment Plant and Haidao Sewage Treatment Plant in Humen Town:

虎門鎮寧洲污水處理廠及海島污水處理廠總排放量：

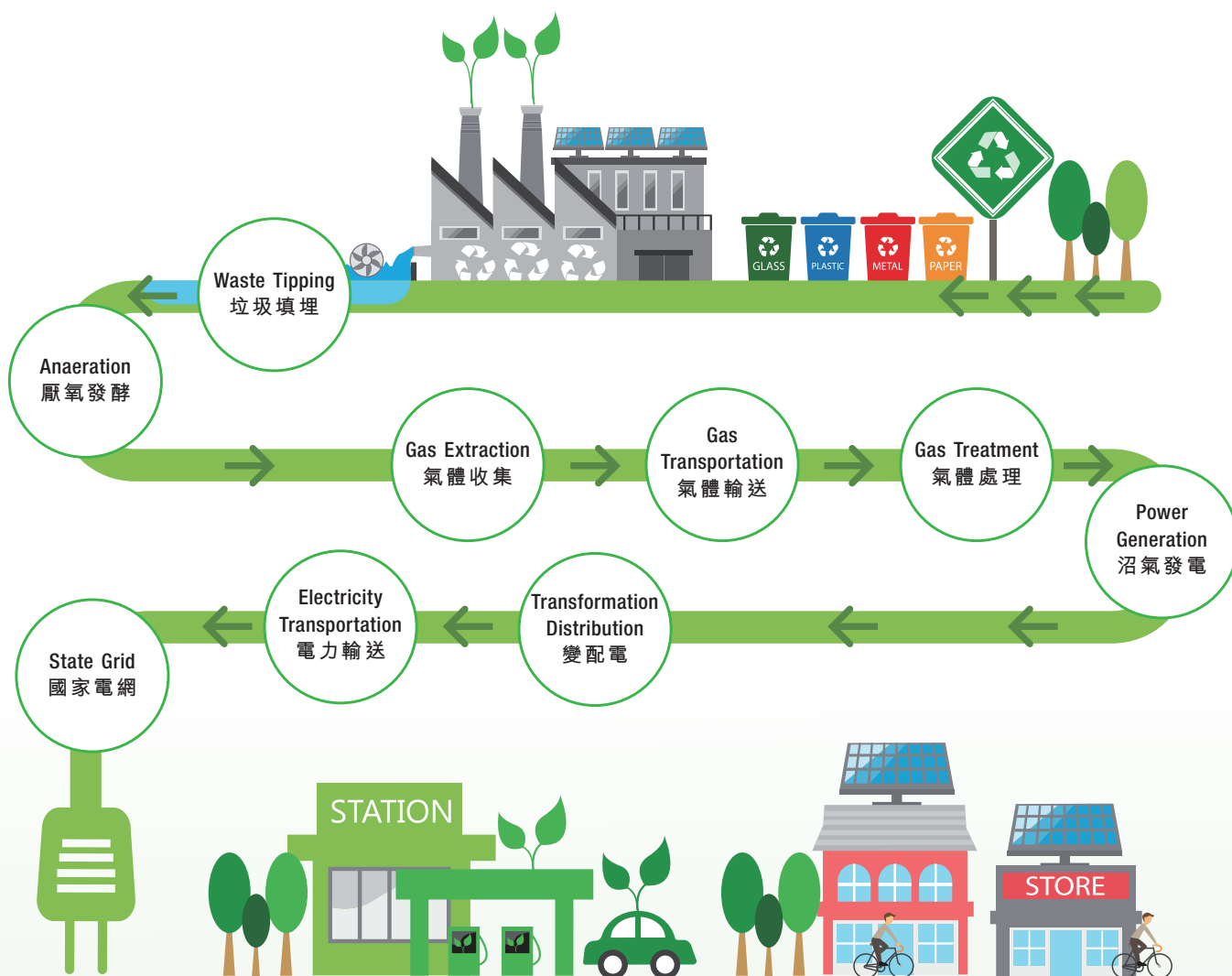
Types of Pollutants	Names of Pollutants	Emissions in 2018 (ton) 2018年排放量 (噸)	Reduction Rate	Standard Required Emissions (ton/year) 標準要求的排放量 (噸／年)	Standard Requirements
污染物種類	污染物名稱		減排率		依據的標準
Water Pollutants 水污染物	COD 化學需氧量	1,061.44	0.1%	1,606	The first standard of the second period set forth in the Emission Limits of Water Pollutants, (DB44/26-2001) Guangdong Province 廣東省《水污染物排放限值》(DB44/26-2001)第二時段一級標準
Water Pollutants 水污染物	NH-N 氨氮	55.1	5.4%	321.2	The first class-B graded standard of the Pollutants Emission Standards of Urban Sewage Water Treatment Plant 城鎮污水廠污染物排放標準(GB 18918-2002)一級B排放標準
Water Pollutants 水污染物	Suspended Substances (SS) 懸浮物	468.9	4.2%	803	Urban sewage treatment plant pollutant discharge standard (GB18918-2002) class B emission standard 《城鎮污水處理廠污染物排放標準》(GB18918-2002)一級B標準

Shenzhen Dongjiang Renewable Energy Ltd.

Founded in 2006, Shenzhen Dongjiang Renewable Energy Ltd. (hereinafter referred to as “**Renewable Energy**”) is a wholly-owned subsidiary of Dongjiang Environmental Company Limited. Located in the Xiaping solid waste landfill in Luohu District, Shenzhen, Renewable Energy is an integrated resource recycling company that uses landfill gas to generate electricity. It is an enterprise encouraged and supported by China and has been recognized as “Advanced Enterprise in Waste Reduction in Pengcheng” and “Excellent Environmental Protection Demonstration Project in Guangdong Province”. The major workflow is as follows:

深圳市東江環保再生能源有限公司

深圳市東江環保再生能源有限公司(下稱為「**再生能源**」)成立於2006年，是東江環保股份有限公司的全資子公司。再生能源位於深圳市羅湖區下坪固體廢棄物填埋場內，是一家利用填埋沼氣進行發電的資源綜合再利用型公司，屬於國家鼓勵和支持型企業，先後多次被評為「鵬城減廢先進企業」及「廣東省環境保護優秀示範工程」。以下為主要工作流程：



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With a site area of 5,404 square meters, the landfill gas power generation project involves a total investment of RMB120 million. It is an integrated resource recycling power plant encouraged and supported by China. It supplies 220,000 KWh of green power to Shenzhen's power grid every day, available for 60,000 households in Shenzhen. In response to the national policy on energy conservation and emission reduction, in 2018, Renewable Energy uses biogas generated from domestic waste landfills to generate electricity with a power generation capacity of 68.33 million kWh and playing an important role in Shenzhen's economic development.

填埋氣體發電項目佔地面積5,404平方米，總投資1.2億元，屬於國家鼓勵和支持的資源綜合再利用型電廠。每天向深圳電網提供22萬KWh的綠色電力，可供深圳市6萬戶居民使用。2018年再生能源發電量為6,833萬度電，為深圳市經濟發展發揮著重要作用。

Name of Pollutants	Emissions (ton/year)	Emission Limits of Standard Requirements (ton/year)	Monitoring Situation
污染物名稱	排放量 (噸／年)	標準要求的排放限值 (噸／年)	監測情況
Nitrogen Oxides 氮氧化物	25.188	140	Qualified 達標
Sulfur Dioxide 二氧化硫	1.007	25.6	Qualified 達標



5.2. LOW CARBON OPERATION

Climate change is an environmental issue that the world must face. According to a report issued by the World Meteorological Organization, global GHG concentration level reached a record high in 2018 which has pushed the global climate to an increasingly dangerous level. Although multiple countries signed the Paris Agreement in 2015 promising to reduce carbon dioxide and other GHG emissions so as to hold the increase in the global average temperature to well below 2°C and to pursue efforts to the target of 1.5°C, the global average temperature in 2018 still increased for almost 1°C above pre-industrial levels.

As a leading environmental protection enterprise of China, the Group is responsible for dealing with hazardous waste issues and municipal waste. The Group also fully understands the urgency of different environmental issues, including climate change which is an internationally concerned issue. In response to the climate change crisis, the Group is committed to energy conservation and carbon reduction in its daily operations and to make every aspect environmental-friendly. In 2018, the Group has gone further based on its experience in 2017 to achieve higher emission reduction effects and fulfill the responsibility of the Sustainable Development Goals 13 of the United Nations, "Take Urgent Action to Combat Climate Change and its Impacts".



5.2. 低碳營運

氣候變化是全球必須正視的環境議題。世界氣象組織發佈的一份報告顯示，2018年全球溫室氣體濃度創下紀錄，將世界各地的氣候推向越發危險的水平。儘管世界各國在2015年達成《巴黎協定》，承諾減少二氧化碳和其他溫室氣體排放，將全球平均氣溫升幅控制在2攝氏度以下，同時向1.5攝氏度的目標努力，但2018年全球平均氣溫仍較工業革命前上升了將近1度。

本集團肩負國家領先環保企業的擔當，在處理危廢問題，解法市政垃圾外，亦充分瞭解不同環境議題的迫切性，當中當然包括國際上最備受關注的氣候變化。為回應氣候變化的危機，本集團在日常運營上致力節能減碳，讓綠色貫徹在當中每一個細節，2018年度更在2017年的經驗上更進一步，達至更高的減排效果，履行聯合國可持續發展目標13—「採取緊急行動應對氣候變化及其影響」之責任。



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5.2.1. GREENHOUSE GAS EMISSIONS INSPECTION

In order to facilitate the government to fulfil its responsibility under the Paris Agreement and to implement important policies such as the National Policies and Actions for Addressing Climate Change (2014–2020), the Group sincerely hopes to ease global warming. We conducted GHG emissions inspection for the headquarters office building and five major subsidiaries according to the Greenhouse Gas Protocol developed by World Resources Institute and the World Business Council for Sustainable Development and ISO14064–1 established by International Organization for Standardization.

After the inspection, GHG emissions of the Group can be categorized into direct emissions (Scope 1) and indirect emissions (Scope 2 and Scope 3). The GHG emissions in each scope are derived from the fuel consumption of the Company, the fuel consumed by the vehicles of the Company (Scope 1), electricity consumption during operation (Scope 2), waste landfill and paper consumption (Scope 3), etc. The summary of GHG emissions for the year is set out in Appendix I: Sustainability Data Statements.

The Group actively invests resources and strives to implement emission reduction measures in its core business. The Group successfully reduced GHG emissions by 3,549.41 tons in 2018, and its emissions intensity decreased by 17.38% as compared with 2017, which is the result reached by common effort of the Group to undertake corporate social responsibilities. This report discloses the carbon emissions at the group level of the Group. The scope of disclosure included the headquarters office building and the major subsidiaries of the four core businesses to reflect the carbon reduction effort of the Group in various businesses.

5.2.1. 溫室氣體排放盤查

為配合國家履行《巴黎協議》的責任及《國家應對氣候變化規劃(2014–2020年)》和《國家適應氣候變化戰略》等重要政策，本集團衷心冀望能遏阻全球暖化之趨勢。我們根據由世界資源研究所與世界可持續發展工商理事會開發的《溫室氣體盤查議定書》及國際標準化組織訂定的ISO14064–1，為總部辦公大樓及五家主要子公司進行溫室氣體排放盤查。

經盤查後，本集團的溫室氣體排放可分為直接排放(範圍1)及間接排放(範圍2及範圍3)。各範圍的溫室氣體排放分別來自公司燃料消耗、名下的車輛使用的燃油(範圍1)、在營運時的電力消耗(範圍2)、廢物堆填和紙張消耗(範圍3)等。本年度的溫室氣體排放概要載列於附錄1：可持續發展數據摘要。

本集團積極投放資源，於核心業務中都爭取落實減排措施，2018年成功減少溫室氣體排放3,549.41噸，排放強度較2017年降低17.38%，反映本集團上下同心減排的成果，承擔企業社會責任。此報告為本集團披露集團層面的碳排放，披露的範圍亦已包括總部辦公大樓及四個核心業務的主要子公司，反映出本集團在各種不同業務上的減碳努力。



5.2.2. LOW CARBON OPERATION

The Group adheres to the target of “A World without Waste” and actively improves the processing procedures of each plant in order to integrate energy conservation and emission reduction into waste disposal. Therefore, major subsidiaries of the Group continued to promote low carbon production procedures in the aspects such as alternative materials, equipment improvement, production processes improvement, waste recycling and employee management in order to reduce carbon emissions together with the rest of the world.

Other than core businesses, the Group attaches importance to the participation of all employees. The Group continues to launch new carbon reduction activities at the office level with an aim that every employee can commit themselves to energy conservation and emissions reduction. During the Reporting Year, the Group further optimized the standard of business reception and dining and changed the traditional reception of group serving to buffet, which greatly reduced the dining time, restaurant cost and food waste, and significantly reduced the amount of food waste.

During the Reporting Period, the Group has also fully implemented the company vehicles reform of the headquarters and the actual holding companies and achieved satisfying results. While maintaining the basic needs of the headquarters and various departments for daily operation and administrative receptions, the headquarters achieved expenses saving rate of 30% from vehicles reform. The whole Group has cancelled 45 company vehicles in order to lay the first step of promoting green travelling. Based on the experience from and result of vehicles reform for the year, the Group issued the Company Vehicles Management System and the Administrative Vehicles Management Requirements to establish measures taken as a system so as to achieve refined and standardized management for the company vehicles.

5.2.2. 低碳營運

本集團堅持「讓世界沒有垃圾」，同時積極改善各個廠房的處理程序，以求令節能減排融入垃圾處理的工作之中。因此，本集團各主要子公司持續在替代材料、設備改進、改善生產過程、廢棄物循環再用、員工管理等多方面，積極推動低碳生產程序，為求與世界同步減少碳排放。

在核心業務以外，本集團更重視全體員工共同參與，於辦公範圍內的減碳活動推陳出新，致力令每一位員工同行同心加入節能減排的行列。報告年內，本集團就進一步優化公務接待用餐標準，改變傳統接待的圍餐形式為自助餐，大大減少了用餐時間、餐廳成本和飯菜浪費情況，令餐廚垃圾量顯著下降。

本報告期內，本集團更全面推行總部及實際控股企業的公務用車改革工作，並取得喜人成效，在維持總部及各單位日常辦理公務及行政接待的基本需求的基礎上，全年總部實現車改節支率30%，全集團則合共取消公用車輛45台，為推進綠色公務出行的改革打下穩固基礎。本集團並根據年度車改工作的經驗和成果，出台《公務用車管理制度》及《行政車輛管理規定》，將改革內容確立為制度，實現公司車輛精細化規範管理。

Environmental Management

環境管理

Low Carbon Production Solutions

低碳生產方案



Energy Saving 節能

Replace oil-fired boilers with oil and gas dual-purpose boilers, so that production processes can use natural gas to reduce carbon emissions

以油氣兩用鍋爐取代燃油鍋爐，令生產過程可利用天然氣減少碳排放

Replace high-energy lamps with energy-saving LED lighting

以節能型LED照明取代高耗能燈具

Flue waste heat recovery

煙道餘熱循環再用

Introducing variable frequency power equipment

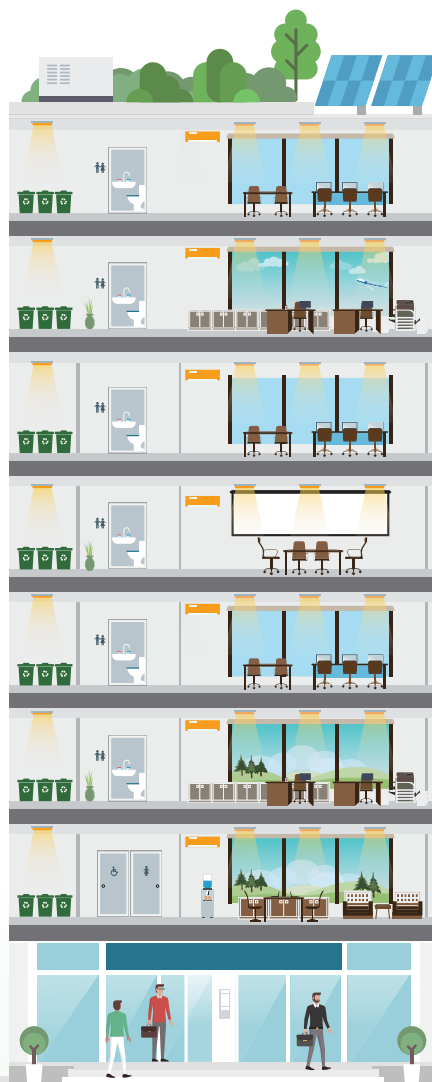
引進變頻動力裝置

Monitor plant power consumption daily

每日監察廠房用电量

Implement departmental energy conservation incentive programs to encourage competition among departments for energy efficiency performance

實行部門節能獎勵計劃，鼓勵部門間在節能表現上競爭



Water Saving 節水

Using recycled wash water

循環使用物料洗滌水

Replace the inclined plate sedimentation tank with MBR membrane to improve wastewater treatment capacity

用活性污泥膜濾法(MBR)膜替代斜板沉澱池，提高廢水處理能力

Condensate water for recycling and reuse

冷凝水循環再用

Improve physical and chemical wastewater treatment programs

提升物理性及化學性污水處理程序

Monitor plant water consumption daily

每日監察廠房用水量

Reuse wastewater with high ammonia nitrogen and distilled water

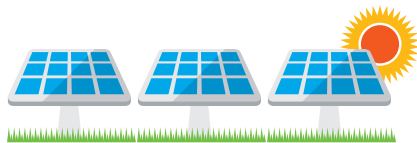
高氨氮廢水蒸餾水回用

Low Carbon Office Solutions 低碳辦公方案

Energy Saving 節約能源

1

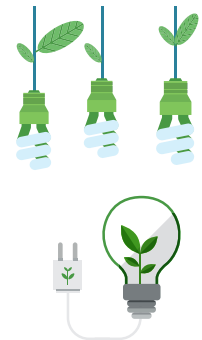
Solar Energy Generation 太陽能發電



- Solar photovoltaic power generation equipment installed in the headquarters office building. The theoretical power generation per month is 1,065 kWh
總部辦公大樓加裝太陽能光伏發電裝置，每月理論發電量為1,065千瓦時

2

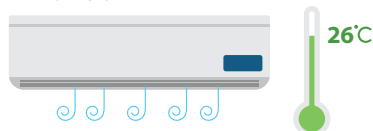
Improve Overall Office Lighting System Design 全面提升辦公室照明系統設計



- Install dynamic sensor switch
安裝動態感應開關
- Dividing the lighting area
劃分照明區域
- Switch to LED lamps
轉用LED燈具
- Increase the number of luminaire cleanings
增加燈具清潔次數

3

Efficient Air Conditioning Management 高效空調管理



- The temperature is preset to 26 degrees Celsius
溫度默認為攝氏26度
- Clean the dust net regularly
定期清洗隔塵網
- Close door and window gaps to reduce air loss
加密門窗縫隙以減少冷氣流失
- Adopt central control and monitoring systems or building management systems
採用中央控制及監察系統或樓宇管理系統
- Add reminders to remind employees to turn off air conditioners at the right time
加設提示提醒員工適時關掉冷氣

4

Low Carbon Travel 低碳出行



- Regular inspection of tires for the fleet
為車隊定期檢查胎氣
- Provide low-carbon driving training for drivers
為司機提供低碳駕駛培訓
- Implementation of switching off idling engines
落實停車熄匙
- Reduce the number of business meetings and replaced by video conferencing
以視頻會議減少公幹會面
- Integrating transportation route
整合運輸路線
- Cancel 45 company vehicles
取消公用車輛45台

Environmental Management

環境管理

5

Office Equipment Management 辦公室設備管理



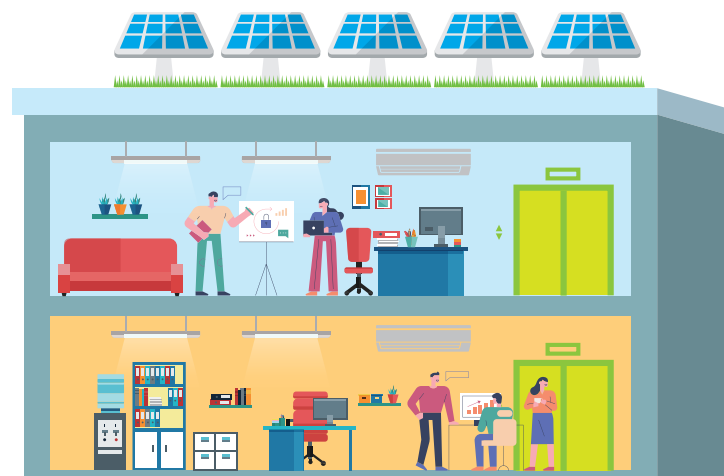
- Monthly monitoring of office electricity consumption
每月監察辦公室用電量
- Set the automatic standby mode for computers
為計算機設定自動待機模式
- Fully shut down electronic devices during non-office hours
非辦公時間全面關閉電子設備
- Integrating servers to reduce energy consumption
整合服務器減少耗能
- Replace single printers or photocopiers with energy-efficient and multifunction printers
以高能源效益的多功能打印機取代單一打印機或複印機

6

Promote Energy Saving Life 推廣節能生活



- Providing WeChat awards activity to encourage employees to use the stairs instead of lifts
以微信有獎活動形式，鼓勵員工以爬樓梯替代電梯



Reduce Consumption of Resources 減低耗用資源

1

Save Paper 節約用紙



- Receive faxes by email
以電郵接收傳真
- Purchasing recycled paper
採購再造紙
- The office administrative system is completely paperless and the programs are processed electronically
辦公室行政系統全面無紙化，以電子系統處理各程序
- Install a hand dryer
安裝乾手機
- Switch to e-card
轉用電子賀卡
- Regularly count paper usage and monitor print quantity of users
定期統計用紙量及監察使用者打印數量

2

Comprehensive Waste Reduction 全面減廢



- Set up an independent plastic recycling machine to provide incentives to increase recovery rate
設立獨立膠樽回收機，提供獎勵增加回收率
- Provide classified recycling bins and battery recycling boxes for employees
提供分類回收筒及電池回收箱予員工使用
- Reuse all kinds of stationery supplies
重複使用各類文儀用品
- Use rechargeable batteries
使用充電電芯
- Arrange recyclers to recycle computers and electronic equipment
安排回收商回收計算機及電子儀器
- Use reusable toner cartridges and ink cartridges
使用可循環再用的碳粉盒及墨盒
- Avoid using disposable appliances
避免使用一次性用具

3

Careful Management of Water Resources 細緻管理水資源



- Speed up the maintenance of dripping faucets
加快維修滴水水龍頭
- Reduce water pressure to reduce water flow
調低水壓減少水流量
- Regular water pipe leak test
定期進行水管滲漏測試
- Fully use water-saving label sanitary ware
全面採用節水標籤之潔具
- Using infrared faucet
採用紅外線水龍頭

Talent Development

人才發展

Dongjiang Environmental not only creates economic values and acknowledges social responsibilities, but also is the cradle of talent. The Group regards “Sincerity” as the core corporate culture and always adheres to the concept of “Be a Sincere Person, Do Things with Integrity, Communicate Honestly”. The Group grows together with employees and cultivates core teams. The Group is committed to providing employees with better environment for growth and creating a ladder for employee development, so that every employee has the opportunity to develop and demonstrate their strengths in Dongjiang Environmental.

東江環保不僅能創造良好經濟價值和勇於承擔社會責任，也是一個人才成長的搖籃。本集團以「誠」為企業核心文化，時刻秉持「誠懇做人、誠信做事、坦誠溝通」的用人理念，與員工共同成長，培育核心團隊。本集團致力為員工提供良好的成長環境，創造員工發展的階梯，令每位員工都有機會在東江環保內獲得培養，發揮所長。



6.1. PRACTICES FOR EMPLOYMENT

The Group endeavours to provide a harmonious, caring, equal opportunities and non-discriminatory working environment for all employees. The Group also strictly abides by relevant laws and regulations, such as the Labor Law of the People's Republic of China, the Labor Contract Law of the People's Republic of China, the Law of the People's Republic of China on the Protection of Minors and the Provisions on the Prohibition of Using Child Labor. The Group has formulated the "Employee Handbook" (《員工手冊》) that provided the requirements for staff benefits, attendance system, employee development, basic rules of environmental, health and safety ("EHS") to ensure that employees can serve the Group under a fair system and have professional development opportunities. As at 31 December 2018, the Group has 4,609 full-time employees. The detailed employees' information of the Group are set out in Appendix I: Sustainability Data Statements.

6.1. 員工僱傭常規

本集團致力為全體員工提供和諧、包容、平等機會和非歧視的工作環境。本集團亦嚴格遵守《中華人民共和國勞動法》、《中華人民共和國勞動合同法》、《中華人民共和國未成年人保護法》和《禁止使用童工規定》等相關法律法規。我們制訂了《員工手冊》，列明員工福利、考勤制度、員工發展、環境、健康和安全(EHS)基本守則等規定，以確立員工能於公平的制度下為本集團服務，並享有專業發展的機會。截至二零一八年十二月三十一日，本集團的全職僱員人數為4,609名僱員。本集團的詳細僱員情況載列於附錄一：可持續發展數據摘要。

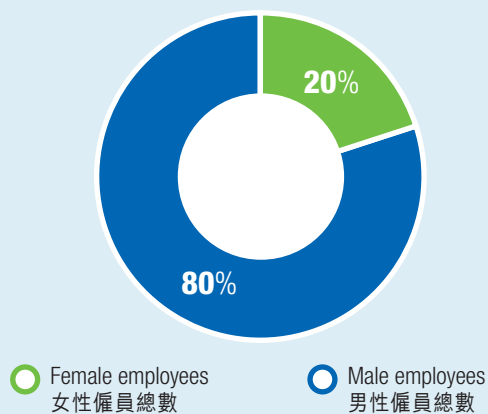
Talent Development

人才發展

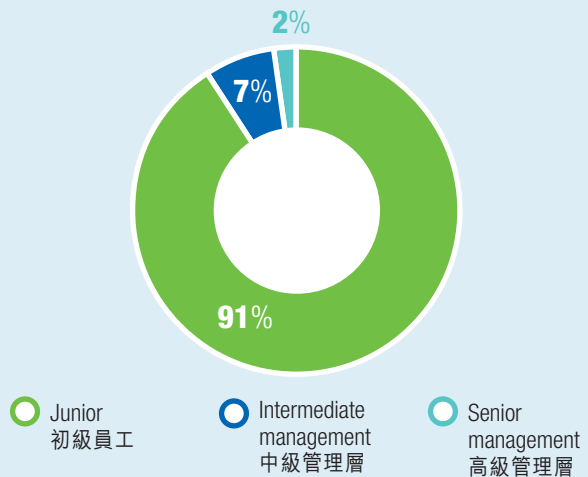
Employee Number Diversity Statistics in 2018

二零一八年員工人數多元化統計

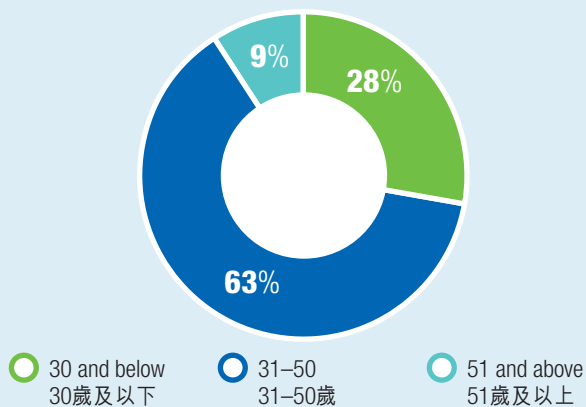
By Gender
按性別劃分



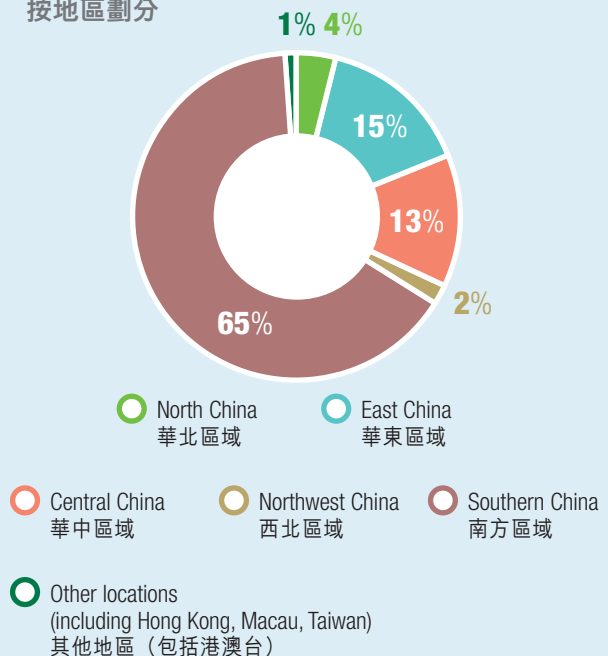
By Employment Type
按級別劃分



By Age Group
按年齡劃分



By Geographical Region
按地區劃分



Notes:

- Figures adjusted to the nearest integer for presentation
- As at 31 December 2018

附註:

- 數字調整至最接近的整數表示
- 截至二零一八年十二月三十一日

RECRUITMENT MANAGEMENT SYSTEM

In order to enhance transparency, we established the “Recruitment Management System” (《招聘管理制度》) to collect request information on personnel from various departments. The Group recruits employees through recruitment websites, recruiters, internal referrals and job fairs. The human resources department will strictly review the qualifications and actual age of the candidates during the recruitment process to prevent child labor. The human resources department conducts a uniform screening process and adheres to the principle of “Fairness, Justice, and Openness” during the assessment process. The educational background, work experience, training experience, skills, etc. of the candidates will be considered and all candidates have equal opportunities regardless of gender, age, nationality and ethnicity.

6.2. EMPLOYEE BENEFITS

The Group is committed to providing fair and competitive remuneration and benefits to attract and retain outstanding talent.

LABOR CONTRACTS

The Group enters into employment contracts with employees to cover contents such as salaries, working hours, benefits and termination basis to ensure that no forced labor has occurred. Our employees’ remuneration packages include salaries and bonuses, which are generally determined based on qualifications, industry experience, position and performance. The Group makes contributions to social insurance and housing provident fund for its employees in accordance with the requirements of the Chinese laws and regulations.

招聘管理制度

為了提高透明度，我們設有《招聘管理制度》，向各部門徵集人員需求信息。本集團透過招聘網站、招聘人員、內部推介和招聘會來招聘員工。在招聘篩選過程中，人力資源部將嚴格審查應聘者資格及實際年齡，以杜絕僱傭童工。在考核過程中，人力資源部進行統一的篩選流程，堅持以「公平、公正、公開」為基本原則，考慮應聘者的教育背景、工作經驗、培訓經驗、技能等，承諾不論其性別、年齡、國籍和種族均享有平等的工作機會。

6.2. 員工福利待遇

本集團致力提供公平及具競爭力的薪酬及福利，以招攬並挽留優秀人才。

勞工合約

本集團與員工訂立聘用勞動合同，以涵蓋工資、工作時間、福利及終止依據等事宜，確保沒有出現強制勞工的情況。我們員工的薪酬待遇包括工資和獎金，一般參考資歷、行業經驗、職位和表現決定。本集團按照中國法律法規的要求為其員工繳納社會保險和住房公積金。

Talent Development

人才發展

The Group strictly implements the labor contract system and ensures that all employees sign the contract with clear understanding of their job duties and on an equal and voluntary basis. The Group prohibits employment discrimination and forced labor and adopts a zero-tolerance attitude towards any form of discrimination or harassment. The Group is committed to building a good working atmosphere in the workplace and clearly guaranteeing employees' right to terminate labor contracts freely. During the Reporting Period, the Group did not have any violations in relation to discrimination, employment of child labor or forced labor.

WORKING HOURS

The Group arranges the working hours of employees in accordance with the requirements of the Labor Law of the People's Republic of China. The headquarters of the Company adopts a five-day work week system with 8 working hours a day. Due to the differences in the nature of production and operation as well as the work requirements of each department, each department can adjust the working time according to the actual circumstances in compliance with laws and regulations. If employees need to work overtime due to their duties, we will arrange overtime compensation or compensation leaves for the employees according to the overtime declaration and compensation regulations.

本集團嚴格實行勞動合同制管理，確保所有員工在清楚瞭解其工作內容及平等自願的情況下簽定合同，禁止就業歧視和強迫勞動，並對任何形式的歧視或騷擾行為採取零容忍的態度，致力建構工作間良好的工作氛圍，並明確保障員工擁有自由解除勞動合同的權利。在報告期內，本集團並沒有發生任何有關歧視、聘用童工或強制勞工的違規行為。

工作時間

本集團按照《中華人民共和國勞動法》的規定去安排員工的工作時數。本公司總部實行五天工作制，每周工作5天，每天工作8小時。因各單位的生產經營性質的差異，以及工作的需要，在符合法律法規的條件下，各單位可以根據實際情況調整上下班時間。如因工作需要，員工需要加班，我們將根據加班申報及補償規定，為員工安排加班費補償或補償休天數。



REMUNERATION AND BENEFITS

The Group established the “Remuneration and Benefits Management System” (《薪酬福利管理制度》) which sets out the standards, policies and systems for compensation and benefits. Salary distribution is based on position’s value, capability and performance. Salary is payable to employees according to their responsibilities, personal capabilities and contributions to the Company. The human resources department regularly updates the benefit items and compensation policies to ensure that the compensation is set at an appropriate level. In accordance with the national statutory requirements, the Group provides to employees with five insurances and one fund, including endowment insurance, medical insurance, unemployment insurance, maternity insurance, work-related injury insurance and housing provident fund.

According to the Labor Law of the People’s Republic of China, employees enjoy annual leaves and statutory holidays as required by the national law and enjoy paid leaves such as marriage leave, bereavement leave, maternity leave, family planning leave and annual leave. In addition, the Group provides employee benefits that is more favorable than the minimum requirements of the law and provides meal allowances, summer high-temperature subsidies, birthdays and holiday benefits, etc. The Group also provides accidental commercial insurance coverage for employees according to different levels and nature of position.

In order to further enhance staff morale, the Group will reform the remuneration management system and establish a reasonable incentive mechanism. Under the requirements of the remuneration management of state-owned holding companies, the management mechanism of total remuneration of business units will be modified, the total remuneration management will be implemented in relatively stable enterprises, the efficiency database for each business units (incineration, recycling, landfill, physical and chemical treatment, etc.) will be established and a model that links operating efficiency to total remuneration and employee income will be built so as to improve employee income by improving efficiency and effectiveness.

薪酬與福利

本集團設有《薪酬福利管理制度》，列明薪酬與福利的標準、政策和制度。薪酬分配依據崗位價值、能力和業績，按照員工在不同崗位上的責任、個人能力和對公司的貢獻計付薪酬。人力資源部定期更新福利待遇項目及薪酬的政策，確保薪酬定於適當水平。本集團根據國家法定要求，為員工提供公司按照國家規定為員工交納五險一金，包括養老保險、醫療保險、失業保險、生育保險、工傷保險、住房公積金。

根據《中華人民共和國勞動法》規定，在職員工享受國家規定的年休假及法定節假日並享受婚假、喪假、產假、計劃生育假、年休假等帶薪假期。除此之外，本集團更提供優於法律規定最低要求的員工福利，亦會為員工提供伙食補貼、夏季高溫補貼、生日與節日福利等。同時，本集團根據不同崗位級別及崗位工作性質的員工，提供意外商業保險保障。

為進一步提高員工士氣，本集團將改革薪酬管理體系，建立合理的激勵機制。在國資控股企業薪酬管理的要求下，創新經營單位薪酬總額管理機制，對相對穩定運營的企業實施薪酬總額管理，建立經營單位（焚燒類、資源類、填埋類、物化類等）人效數據庫，建立經營效益與薪酬總額、員工收入掛鉤的模型，以提高效益和效率帶動員工收入提高。

Talent Development

人才發展

SYSTEM FOR PERFORMANCE ASSESSMENTS

During the year, the Group further standardized and improved its performance assessment mechanism to promote “Creating Value for Customers”, “Cooperating with Each Other”, “Differentiated Management” and “Advocating Synergy”. The “Performance Assessment System” (《績效管理制度》) established by the Group motivates employees to focus on the Group’s business objectives and demonstrate their strengths according to the Company’s strategic direction. With the annual, semi-annual, monthly/quarterly periodic assessments of employee performance, the employees are comprehensively evaluated in three aspects, namely work performance, learning and development and work attitude, thereby objectively and comprehensively reflecting the performance of the examinees and fairness of the assessment. The results of performance assessment shall be the basis for the employees’ year-end award, salary adjustment and promotion and also one of the basis for improving human resource management.

6.3. HEALTH AND SAFETY OF EMPLOYEES

The Group regards that the health and safety of employees is one of the most important assets of the Company and actively promotes the Sustainable Development Goals 3 of the United Nations, “Ensure Healthy Lives and Promote Well-being for All at All Ages”. The Group strives to create a good working environment without accidents and injuries with all employees.



EHS MANAGEMENT SYSTEM

In order to prevent and control various types of waste pollution, to prevent the occurrence of accidents related to safety and environmental issues and to achieve sustainable economic and environmental development, the Group have established the EHS Basic Code (《EHS基本守則》) and formulated an EHS management system to control the whole process of waste collection, transportation and treatment that affect or may affect safety and environment to avoid major environmental accidents.

績效考核制度

本年度，本集團進一步規範和完善績效考核機制，以促進「為客戶創造價值」、「相互協作」、「差異化管理」、「倡導協同」為優化重點。本集團制定之《績效管理制度》，鼓勵員工圍繞集團經營目標，按公司戰略方向，盡展所長。員工績效考核以年度、半年、月度／季度為考核週期，從工作業績、學習與發展和工作態度行為，三個不同角度對員工進行全面的考核，客觀全面地反映出被考核者的工作績效，體現了考核的公正性。績效考核結果作為員工年終獎、調薪與晉升的依據。同時，也是改善人力資源管理的依據之一。

6.3. 員工健康與安全

本集團認為員工的健康和安全是企業最重要的資產之一，致力推動可持續發展目標3—「確保健康的生活方式，促進各年齡段人群的福祉」，與所有員工共同努力營造無事故和無傷害的優良工作環境。



安環(EHS)管理體系

為了防治各類廢物污染，杜絕安全、環境事故的發生，實現經濟與環境的可持續發展，我們訂定了《EHS基本守則》並建立安環(EHS)管理體系，對產生或可能產生安全與環境影響的廢物收集、運輸、處理全過程進行控制，避免重大環境事故發生。





Talent Development

人才發展

As a group targeting pollution prevention and control, the Group firmly established the concept of safety development, continuously enhanced the professional skills and safety and environmental awareness of all employees and ensured the effective operation and continuous improvement of the safety management system. Newly recruited employees (including those of the contractors) are required to participate in EHS training organized by the human resources department to learn about occupational health and safety and environmental related knowledge, skills, and Company-related systems and processes. Due to the different potential hazards in different work areas, the Group has formulated a series of safety working guidelines according to the position nature in relevant areas. Employees in relevant areas must read the corresponding parts carefully and implement the corresponding protective measures in the guidelines strictly. The Group also establishes procedures for emergencies. In the event of an accident, employees can take corresponding measures according to different types of accidents.

FREE BODY CHECK

In order to protect the physical and mental health of employees, the Group provides body check for employees. Employees can enjoy free body check to help employees discover potential diseases and manage health risks in a targeted manner.

WELFARE FOR CULTURE LIFE

The Group also organizes a wide range of cultural and recreational activities regularly for employees to participate, as to balance employees' work pressure and build up the teamwork spirit. Every year, the Dragon Boat Festival, Mid-Autumn Festival, Spring Festival and Women's Day provide employees with appropriate spending or holiday gifts to encourage their outstanding performance, enhance their sense of accomplishment and belonging to the Company.

作為污染防治的主體，本集團牢固樹立安全發展理念，不斷提高全體員工的專業技能和安環意識，確保安環管理體系有效運行並持續改進。新入職員工(包括承包商人員)需參加人力資源部組織的EHS培訓，學習職業健康安全和環保相關的知識、技能、公司的相關制度和流程等。由於不同的工作區域會有不同的潛在危害，本集團根據相關區域的工作性質，制定一系列的安全工作指引，相關區域工作的員工必須仔細閱讀相應部分，並嚴格執行指引中相應的防護措施。本集團亦建立突發事故的應急程序，在發生事故時，員工可根據不同事故類別採取相應措施。

免費健康體檢

為保障員工的身心健康，本集團為員工提供健康體檢活動。員工可享受免費健康體檢，幫助員工發現潛伏的疾病，針對性管理健康風險。

文化生活福利

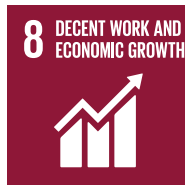
本集團亦定期舉辦多元化的文化娛樂活動供員工參與，以平衡員工工作壓力及建立團隊合作的精神。每年端午節、中秋節、春節及婦女節為員工發放適當的過節費或過節禮品，以鼓勵員工出色的表現，提升他們的成就感及對公司的歸屬感。

Talent Development

人才發展

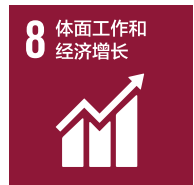
6.4. CULTIVATE PROFESSIONAL TEAMS

The Group is striving to provide employees with a better growth environment and create ladder for employee development. In order to fulfil the Sustainable Development Goals 8 of the United Nations, "Promote Inclusive and Sustainable Economic Growth, employment and decent work for all", the Dongjiang Environmental Talents Training System was therefore established to provide regular and comprehensive development training for employees.



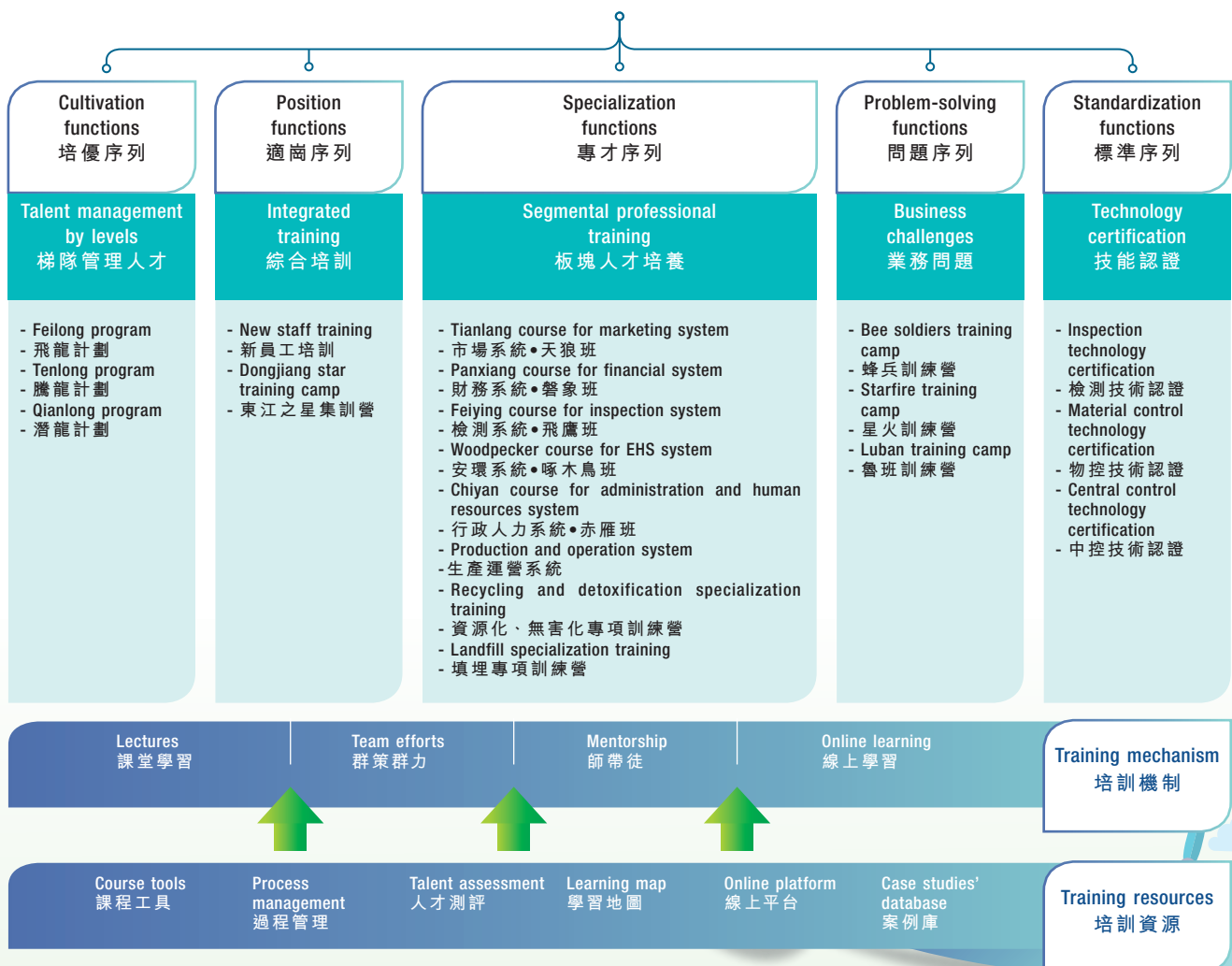
6.4. 培育專業團隊

本集團不斷為員工提供更好的成長環境，創造員工發展的階梯。為履行可持續發展目標8—「促進持久、包容和可持續經濟增長，促進充分的生產性就業和人人獲得體面工作」，因此設立東江環保人才培養體系，為員工提供定期及全面的發展培訓。



Dongjiang Environmental Talent Nurture System (Content, System, Resources) 東江環保人才培養體系（內容、機制、資源）

Supporting corporate strategies of the Company Talent development strategy 支撐公司業務戰略人才發展戰略



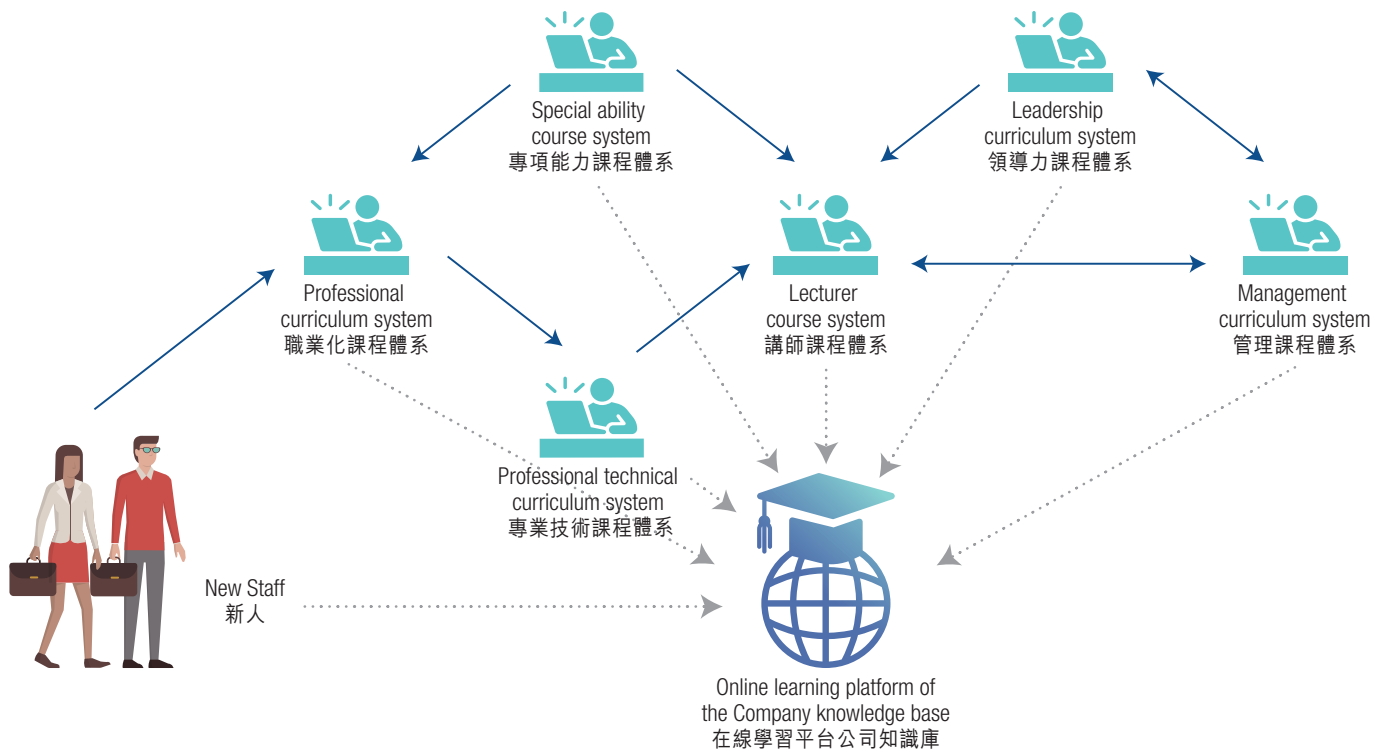


Talent Development

人才發展

Talent development path map

人才培養路徑圖



Remarks:

- ① Each student automatically enters the talent pool of the next promotion stage
- ② The learning process is also an evaluation process
- ③ Promotion must participate in the corresponding training sharing

備註：

- ① 每個學員都自動進入下一晉升階段的人才池
- ② 學習過程也是考察評估過程
- ③ 晉升必須參加相應培訓或分享

To maintain the quality, knowledge and skills of the Group's staff, the Group provides regular training to its employees, including new staff training, technical training, professional and health and safety training.

為維持本集團的員工質素、知識及技能水平，本集團向僱員提供定期培訓，包括新僱員入職培訓、技術培訓、專業及健康及安全培訓。

Talent Development

人才發展

New Staff Training

新員工入職培訓

The training involves the Company's history, corporate culture, rules and regulations, basic knowledge of safety and environmental protection, etc. which lays the foundation for new employees to start working at their positions.

培訓涉及了公司發展史、公司文化、規章制度、安全環保基礎知識等，為新員工進入崗位、開始新歷程奠定了基礎。



No. of participants

參與人數

123 participants
人



Total training hours

總培訓時數

16 hours
小時

Production and Operation Management Special Training Camp

生產运营管理專項訓練營

The training focuses on cultivating the professional talents in various business sectors of the Company. By integrating the professional knowledge of production and operation, the practical experience in production and discussing and solving the problems in operation, the students can improve their production and operation management capabilities and improve the efficiency of the Company.

培訓專注培養公司各業務領域專業人才，通過融合生產運營的專業知識，整合生產中的實踐經驗，研討解決運營中的難題，從而提升學員生產運營管理能力，提高公司效益。



No. of participants

參與人數

49 participants
人



Total training hours

總培訓時數

60 hours
小時

Dongjiang Star Fresh graduates Training Camp

東江之星應屆生訓練營

The training continues to build a management talent reserve, which is the cradle for the Company to cultivate key personnel in the primary and secondary levels in the future. It focuses on training for production and operation talents, process technology talents, marketing talents, EHS talents and functional talents.

培訓持續打造管理人才後備梯隊，是公司培養未來中基層關鍵崗位人才的搖籃，重點培養為生產運營型人才、工藝技術型人才、市場型人才、EHS型人才、職能型人才。



No. of participants

參與人數

35 participants
人



Talent Development

人才發展



Environmental Protection Service Division Wastewater Operation Class

環保服務事業部廢水運營班

Based on the actual needs of wastewater operation, the training focuses on three aspects of outdoor development, practical drills and classroom learning.

培訓根據廢水運營的實際需求，從戶外拓展、實戰演練和課堂學習三大方面循序漸進，逐步深入學習探討。



No. of participants

參與人數

28 participants
人

East China Business Department Starfire Training Camp

華東事業部星火訓練營

The training aims at training a group of production and operation management personnel who are familiar with the legal regulations of the industry and have a systematic and comprehensive view of the incineration business.

培訓旨在培養一批熟悉行業法律規範、具有系統性、全局觀的焚燒業務生產運營管理人才。



No. of participants

參與人數

Over **30** participants
超過 人

Guangdong Business Department Bee Soldiers Class

廣東事業部蜂兵班

The training combines practical exercises and classroom learning. By integrating practical courses of various professional sectors of safety and environmental protection, production, technology, equipment and material control with the general management courses to comprehensively enhance the professional and technical capabilities and management capabilities of the talents.

培訓以實戰練習和課堂學習相融合，精選安環、生產、技術、設備、物控各個專業模塊的實用課程與通用管理課程相結合，全面提升梯隊人才的專業技術能力和管理能力。



No. of participants

參與人數

38 participants
人

Talent Development

人才發展

CONTINUOUS IMPROVEMENT

The Group is also committed to the development of “Internet + Offline training system”, from centralized training to fragmental learning, from face-to-face small classes to open network courses, from famous lecturers and experts to down-to-earth business stars, from the capacity model construction to key behavior simulation in telecom scenario. In the future, the Group will build a three-level training system consisted of the headquarters training center, regional business departments and subsidiaries to strengthen the training and development of talents at all levels.

持續進步

同時，我們致力開發「互聯網+線下的培訓體系」，從集中培訓到碎片化學習，從小班面授到開放式網絡課程，從名師和專家向草根業務明星轉變，從能力模型搭建到電信場景關鍵行為模擬。未來，我們將建設總部培訓中心、區域事業部和分子公司的三級培訓體系，加強各級人才培訓與發展。





Standard Operation

規範運營

In 2018, the Group successfully accomplished the safety and environmental protection operation targets of zero major injuries and zero major environmental pollution accidents, in order to demonstrate the legal compliance of the state-owned holding company. Compliance operations is an important part of the Group's management system to ensure that employees and different individuals involved in the process are well protected. In this regard, the Group has established a comprehensive operating system to prevent and resolve major risks.

Since establishment, the Group has been committed to establishing a high quality operating system. In 2013, the Group passed the certification of Occupational Health Assessment Series (OHSAS18001) and Environmental Management System (ISO14001). In August 2018, the Company passed the revised certification. The two systems not only provide standards and norms for the care of employees but also for the improvement of the environment in order to allocate and save resources more rationally, improve the management system and reduce environment pollution.

The Group continues to standardize its internal management system in accordance with national laws and regulations. According to standards and requirements such as the Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases, the Occupational Health and Safety Management System Regulations (GB/T28001-2001), the Environmental Management System Requirements and User Guidelines (GB/T24001-2004) and the Quality, Safety, Health and Environment Management System Standards and Application Guideline (Q/GDDL-001-2006), the Group internally established systems such as the "Safety and Environment Monitoring and Measurement Control Procedures" (DJ-EHSP-17) (《安環監測和測量控制程序》(DJ-EHSP-17)), "Environmental Protection Management System" (《環境保護管理制度》) and "Documentation Control Procedures" (DJ-EHSP-05) (《文件控制程序》(DJ-EHSP-05)) with integration of safety management and environmental protection needs. A vertical comprehensive management system was formulated internally to ensure that operational risks are under control, legitimate interests of employees are secured and a good image of law-abiding corporate is built. The Group strictly implements the pollutant discharge permit system, collects and replaces the pollutant discharge permit pursuant to regulations and timely discharges pollutant declaration and environmental information.

2018年，本集團成功完成定下的安全與環保營運目標：重大傷亡事故為零，重大環境污染事故為零，以求表現出國有控股公司運營合法合規的擔當。合規運營乃集團管理體系的重要項目，以確保員工，以及參與過程中的不同人員，都享有完善的保障。就此，本集團建立了一套防範化解重大風險的全面運營體系。

自成立以來，本集團一直致力建立高質素的運營體系。於2013年通過了職業健康管理體系(OHSAS18001)和環境管理體系(ISO14001)的認證，在2018年8月公司通過了換版認證。兩套體系不僅從對員工的關愛，也對環境的改善提供了標準及規範，從而更加合理的配置和節約資源，完善管理體系，並減少對環境的污染。

本集團並根據國家法律、法規，不斷對內部的管理系統進行規範化，按《中華人民共和國職業病防治法》、《職業健康安全管理体系規範》(GB/T28001-2001)、《環境管理体系要求及使用指南》(GB/T24001-2004)及《質量安健環管理体系標準及應用指南》(Q/GDDL-001-2006)等標準要求，結合安全管理和環境保護需要，內部制定了《安環監測和測量控制程序》(DJ-EHSP-17)、《環境保護管理制度》和《文件控制程序》(DJ-EHSP-05)等制度，成立了內部由上而下的全面管理體系，保證運營風險可控，維護員工的合法利益及樹立企業守法的良好形象。本集團嚴格執行排污許可證制度，按規定領取並更換排污許可證，按時排污申報和環境信息公開。

Standard Operation

規範運營

The Group attaches great importance to the four administrative penalties of more than RMB100,000 imposed on certain subsidiaries by environmental protection departments during the Reporting Period. The Group immediately conducted self-inspection and adopted corresponding corrective measures. The Group also formulated various relevant regulations and systems, and required strict implementation and active rectification. In addition, the subsidiaries also held special training sessions to improve the operation of front-line personnel and required warehouse management personnel to operate in strict compliance with the standards.

7.1. SAFETY MANAGEMENT SYSTEM

In order to ensure the project safety standards and meet the requirements of laws and regulations such as the Production Safety Law of the People's Republic of China and Environmental Protection Law of the People's Republic of China. In addition to management policies, the Group also improved its safety management system in terms of personnel establishment. The Group established a safety environment management committee. The Group also established a safety management and environmental protection system consisting of the person in-charge of the operation bases, safety and environmental management department, department head and department safety and environmental personnel. The general manager of each operation base acts as the responsible person of the safety and environmental management of an operation base and is fully responsible for the safety management and environmental protection of the base as well as supervision and inspection of the safety and environmental status of the base.

本集團高度重視報告期內部分子公司收到的四宗環境保護部門10萬元以上之行政處罰。本集團立即開展自查工作，采取了相應整改措施。同時，亦制定各相關規定制度，並要求嚴格執行及積極整改。此外，子公司亦分別召開專題討論培訓會，提升前線人員的操作，要求倉管人員必須嚴格按照規範操作。

7.1. 安全管理體系

為確保項目的安全水平，達至《中華人民共和國安全生產法》和《中華人民共和國環境保護法》等法規要求。本集團在管理制度以外，更在人事編製上完善安全管理體系。本集團設立之安全環境管理委員會，建立由基地領導、安全環境管理部門、部門負責人和部門安環員組成的安全管理和環境保護體系。各基地總經理作為基地安全環境管理總負責人，全面負責基地的安全管理和環境保護工作，監督檢查基地的安全和環保狀況。



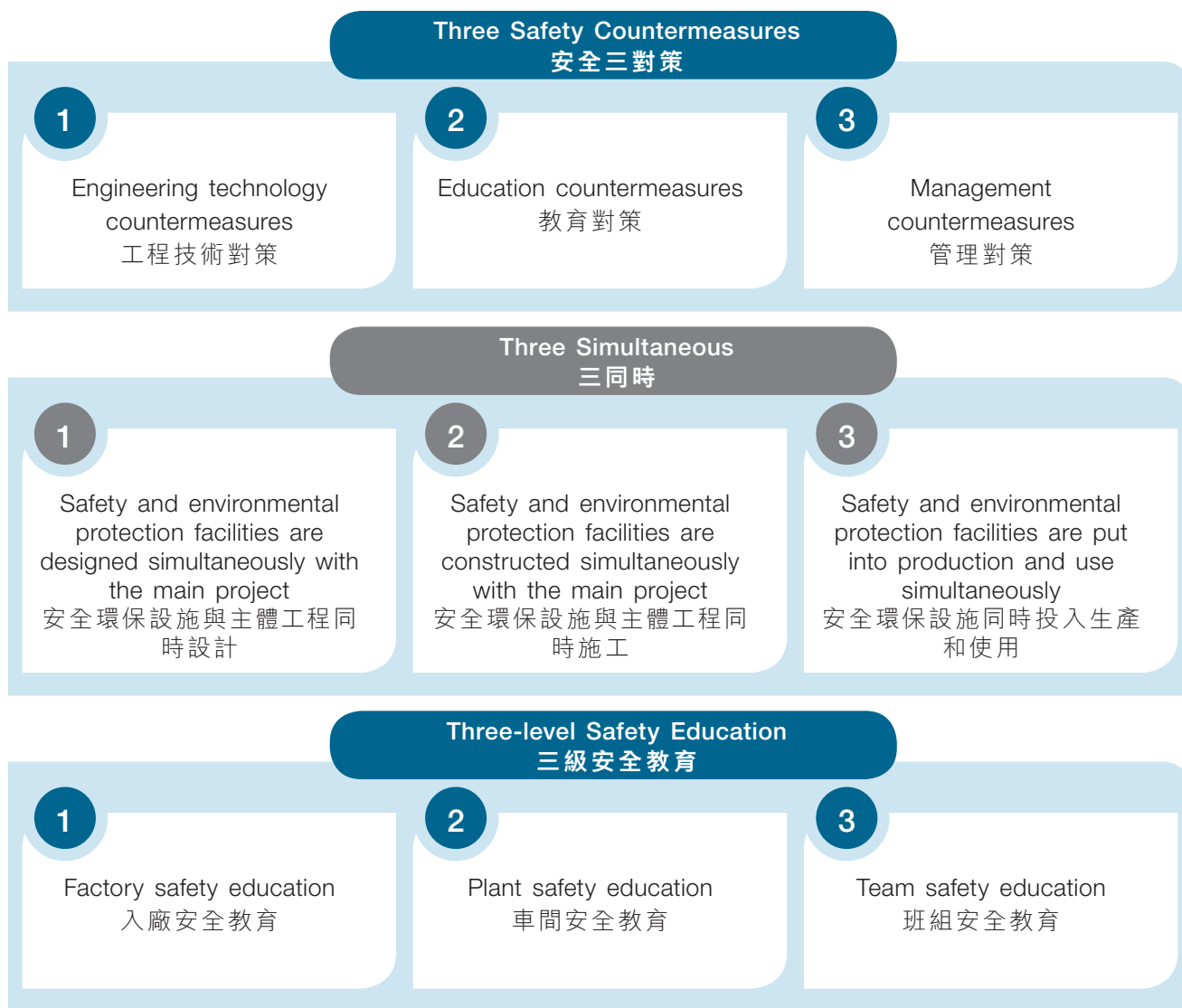


Standard Operation

規範運營

THREE MAJOR SAFETY POLICIES

三大安全政策



During the Reporting Period, the Group strictly implemented the “Three Simultaneous” environmental protection system for all new construction projects, the hazardous waste business license system and the management method for hazardous waste transfer. Each hazardous waste business unit had obtained the “Hazardous Waste Business License” issued by the local provincial environmental protection department and carried out business activities in compliance with the approved requirements.

報告期內，本集團為所有新建項目嚴格執行環保「三同時」制度、危險廢物經營許可證制度、危險廢物轉移聯單管理辦法。各危險廢物經營單位均取得當地省環境保護廳頒發的《危險廢物經營許可證》，並按核准要求開展經營活動。

Standard Operation

規範運營

As for existing projects, the Group conducts “Annual Inspection — Objective” each year. Each department completes a survey for the identification of hazard sources, environmental factor identification and evaluation and confirming control measures. In order to update the lists of important environmental factors and major hazard sources in a timely manner, each department will formulate management solutions and operational management measures based on the checklist of important environmental factors and major hazard sources.

After completion of the survey, the Group formulates environmental and occupational health and safety objectives and standard at the end of the year to fulfill the requirements of environmental and occupational health and safety guidelines, including pollution prevention, injury prevention and disease prevention, compliance with legal and regulatory requirements and commitment to continuous improvement for the next year. In the event of an emergency or incident, each unit will carry out control measures in accordance with the “Emergency Response Management Program” (《應急響應管理程序》).

The Group will regularly check and evaluate the implementation of the objectives, targets and management plans of each department. The Group will also take timely measures on the problems found or make necessary adjustments to ensure that the objectives and management plans are implemented as scheduled. The results of the assessment are reported for record, so that safety can be put into practice in the entire business. During the Reporting Period, the Group did not have any work-related death.

至於現有項目，本集團每年均進行「一年一檢一目標」。各部門先完成一次危險源辨識普查、環境因素識別與評價，以及確認控制措施，為求及時更新重要環境因素清單和重大危險源清單，將根據重要環境因素清單和重大危險源清單，制定管理方案和運行管理措施。

在完成普查後，本集團於年底為下一年度制定環境和職業健康安全目標及指標，並符合環境和職業健康安全方針的要求，包括預防污染、預防傷害和疾病、遵守法律法規和其他要求，以及持續改進的承諾。一旦出現突發事件和事故，各單位將按《應急響應管理程序》進行控制。

本集團會定期對各部門目標、指標和管理方案的執行情況進行檢查和考核，對所發現的問題及時採取措施，或進行必要的調整，以確保目標和管理方案按計劃進度實施完成，並將考核結果上報紀錄在案，讓安全貫徹整個業務。報告期內，本集團沒有任何因工作關係而死亡的人數。



7.2. SUPPLIER MANAGEMENT

The sustainable development of the Group also depends on complete supplier management. According to the Bidding Law of the People's Republic of China and the Regulation on the Implementation of the Bidding Law of the People's Republic of China, the Group has formulated the "Procurement Management System" (《採購管理制度》), "Centralized Procurement Management Regulations" (《集中採購管理規定》) and "Contract Evaluation Management Program" (《合同評審管理程序》) to ensure the standard of suppliers. In order to strengthen the management of procurement operation scattered throughout the country, prevent various drawbacks in the procurement process and enhance the efforts in anti-corruption, the Group has established a standardized supplier list to fully record the suppliers' quality, record of goods supplied and evaluation reports, and stipulated the procedures of approval for procurement.

In the supplier selection process, in addition to assessing factors such as the quality of products and services provided by potential suppliers, goodwill, cost, etc., the Group will also include corporate governance, labor conditions, ethics and environmental standards into the assessment. The Group selects and assesses social responsibility according to the operating rules of external suppliers so as to simultaneously enhance the social responsibility and awareness of our suppliers and achieve a sustainable supply chain with our suppliers by joint efforts.

For new process technologies, complex process technologies or large-scale project construction projects, relevant departments or technical departments shall provide new suppliers that can fulfill the technical process requirements. The procurement department shall organize inspection and review as required. For large-scale procurement projects, the Group will conduct on-site inspection for the newly developed suppliers and relevant departments including procurement, technology, process, equipment, workshop and finance will participate together.

7.2. 供應商管理

本集團的可持續發展，亦有賴於完整的供應商管理，按《中華人民共和國招標投標法》《中華人民共和國招標投標法實施條例》等，已制定《採購管理制度》、《集中採購管理規定》、《合同評審管理程序》，以確保供應商的水平。為加強分散於在全國各地的採購業務工作管理，預防採購過程中的各種弊端，加強反貪腐的工作。本集團已建立統一的供貨商名錄，全面紀錄供貨商的素質、供貨紀錄及評估報告，並列明採購的申請名審批程序。

在供應商甄選過程中，本集團除了評估潛在供應商提供的產品及服務質量、商譽、成本等因素外，更會把公司治理、勞動狀況、道德及環保標準等納入考核之內，本集團按外部供應商的營運守則作出甄選，以及社會責任評估，務求同步提升供應商的社會責任及意識，與供應商共同實現可持續供應鏈。

對於新工藝技術、工藝技術複雜或大型工程建設項目等，相關部門或技術部門需提供滿足技術工藝要求的新供應商，由採購部門按要求組織進行考察、評審。對於大宗採購項目，本集團將對新開發的供應商進行現場考察，並由採購、技術、工藝、設備、車間、財務等相關部門共同參與。

FLOW CHART OF PROCUREMENT
採購流程圖



7.3. ANTI-CORRUPTION

The Group pursues anti-corruption and strictly abides by the relevant laws and regulations of the jurisdictions of the Group, which include the Anti-Money Laundering Law of the People's Republic of China, the Anti-Money Laundering and Counter-Terrorist Financing (Amendment) Ordinance of Hong Kong and relevant laws and regulations on anti-corruption and bribery. The Group has formulated the "Anti-corruption Management System" (《反舞弊管理制度》) and established corresponding reporting procedures and monitoring measures to provide reporting channels for employees of the Company and related external parties and keep the identity of the reporter strictly confidential. Improper behavior or violations will be investigated and dealt with according to the laws. During the Year, the Group did not involve in any major incidents of corruption, bribery, fraud and money laundering.

7.4. SECURING THE INFORMATION SECURITY

The Group strictly abides by relevant laws and regulations regarding information security and privacy protection including the Administrative Measures for the Security Protection of Computer Information Networks Linked to the Internet. The Group has formulated and implemented the "IT Security Management Regulations" (《IT安全管理規定》) to strengthen the security and confidentiality management of computers and information systems of the Company (including confidential information systems and non-confidential information systems) to ensure the security of business data and business information of the Company.

7.3. 反腐倡廉

本集團奉行反腐倡廉建設，嚴格遵守本集團所屬司法轄區的相關法律法規，包括《中華人民共和國反洗錢法》、香港《打擊洗錢及恐怖分子資金籌集(修訂)條例》及關於反貪污賄賂的相關法律及法規。本集團制訂了《反舞弊管理制度》，建立相應舉報程序和監察措施，為公司僱員及相關外部人士提供舉報渠道，並對舉報者身份嚴格保密，將依法調查和處理相關不當或違法違規行為。本年度，本集團未涉及任何貪污、賄賂、欺詐及洗錢的重大案件。

7.4. 保障信息安全

本集團嚴格遵守包括《計算機信息網絡國際聯網安全保護管理辦法》等關於信息安全及私隱保護的相關法律法規。我們制定並實施《IT安全管理規定》，加強公司計算機和信息系統(包括涉密信息系統和非涉密信息系統)安全保密管理，確保公司業務數據和商業信息的安全。

Standard Operation

規範運營

The Group also strictly regulates the management of various data usage processes to ensure information security. The Group has formulated the “Information Exchange Management Procedures” (《信息交流管理程序》), which stipulates the collection of customer information, the purpose of using customer information, the disclosure restrictions of customer information and the storage method of customer information as well as the internal communication arrangements to prevent information leakage and protect information and privacy of customer comprehensively.

The information management department provides information security operation and maintenance support services to the Group. Effective security measures were taken in various stages from construction of information technology projects, system service support, data center operation and maintenance management, and the installation and setup of employee desktop systems. Protection and management are carried out by levels, categories and ranks.

7.5. RESPECT THE INTELLECTUAL PROPERTY RIGHTS

The Group strictly abides by the Patent Law of the People's Republic of China, Trademark Law of the People's Republic of China and relevant laws and regulations to protect the legal rights such as the intellectual property rights of the Group and related rights holders. The servers and installation of desktop terminal operating system and application service software of the Group are also strictly controlled and prohibited the illegal use of third-party intellectual property rights. Furthermore, suppliers or customers are required to protect the legal rights of the Group or related rights holders in accordance with the law. Between cooperation with relevant suppliers, they shall ensure that all technologies submitted and development achievements shall not infringe any legal rights such as legal patent rights, trademark rights and copyrights of any third party. In the event of violation by a supplier, the Group will consider suspending cooperation.

本集團在管理上亦嚴格規範管理各類數據使用流程，保障信息安全，制定《信息交流管理程序》，規定各部門關於客戶資料的收集、使用客戶資料的目的、披露客戶資料的限制，及保存客戶資料的方法，以至內部通訊的安排，防止信息洩露，全面保障客戶資料及私隱。

本集團由信息管理部門提供信息安全運維保障服務，從信息化項目建設、系統服務支持、數據中心運維管理，以及員工桌面系統的安裝和設置等各業務環節都採取了有效的安全防範措施，分層、分類、分級的進行保護和管理。

7.5. 尊重知識產權

本集團嚴格遵守《中華人民共和國專利法》、《中華人民共和國商標法》及其相關法律法規，以維護本集團和相關權利人的知識產權等合法權益。本集團的服務器及桌面終端的操作系統、應用服務軟件的安裝也有嚴格的管控，禁止非法使用第三方的知識產權。另外，亦要求供應商或客戶依法保護本集團或相關權利人的合法權利。在與相關供應商的合作中，他們需保證所提交的一切技術及開發成果，均不得侵犯任何第三方的合法專利權、商標權、著作權等一切合法權利。如供應商出現違規情況，本集團將會考慮暫停合作。





Community Development

社區建設

“The Longing for Better Life is Our Goal”. As a state-owned environmental protection enterprise that cares about the well-being of the people, the Group closely connects and grows together with the community and the people, and is committed to creating a better life for the people. The Group attached utmost importance to people’s interests, actively participates in community welfare investment, consolidates grassroots ties and makes efforts to build a moderately prosperous society for the whole China.

8.1. ENVIRONMENTAL PUBLIC EDUCATION

In 2018, the Group focused on connecting with the neighborhood communities and neighborhood primary schools to jointly create an “Environmental Education Classroom”, which fulfils the social responsibility of state-owned environmental protection enterprise and reflects the importance of environmental education to the younger generation. Throughout the year, the Classroom received a total of 500 teachers and students from 12 classes of Songping No.2 Primary School and explained environmental protection knowledge with a hope to establish connection between the Group and the community.

「人民對美好生活的嚮往，就是我們的奮鬥目標。」本集團作為關心人民福祉的國有環保企業，與社區，與民眾緊密聯繫，共同成長，致力於為人民創造美好生活。本集團堅持人民利益至上，積極參與社區公益投資，夯實基層聯繫，為國家全面邁向小康社會做出努力。

8.1. 環境公眾教育

本集團於2018年內，重點聯繫周邊社區與周邊小學共同創建「環保教育課堂」，切實體現國有環保企業社會責任和對下一代環保教育的重視，全年共接待松坪二小師生共12個班級500人次，為其講解環保知識，希望建立集團與社區的聯繫。

8.2. EMERGENCY RESCUE OPERATION

The Group is an environmental emergency rescue expert trusted by the government and enterprises and has established a number of environmental rescue teams throughout the country. The Group participated in various rescue cases and handled major environmental incidents in the local provinces and municipalities, including cases of pollution and spill incidents. In 2018, by strengthening the construction of emergency teams such as Baoan Dongjiang, Longgang Dongjiang, Huizhou Dongjiang, Jiangmen Dongjiang and Zhuhai Yongxingsheng, the Group participated in approximately 375 environmental emergency rescue cases and disposed approximately 1,465 tons of waste for Zhuhai Xiangzhou Environmental Protection Bureau, Zhuhai Doumen Environmental Protection Bureau, Zhuhai Environmental Protection Bureau, Dongguan Environmental Protection Bureau, Huizhou Zhongkai Environmental Protection Branch Bureau, Shenzhen Longgang Environmental Protection and Water Bureau, Shenzhen Longhua New District Environmental Protection Bureau, Shenzhen Pingshan New District Environmental Protection Bureau, Shenzhen Baoan Environmental Protection and Water Bureau, Shenzhen Nanshan Safety Supervision Bureau, Shenzhen Baoan Safety Supervision Bureau and other units. We have been designated as an environmental rescue support unit by Shenzhen Habitat and Environment Committee, actively fulfilling corporate social responsibility in respect of environmental protection for the community.

8.2. 應急救援行動

本集團是政府和企業信賴的環境應急救援專家，並在全國各地組建了多支環保救援隊，多次參與所在省、市重大突發環境事故的救援和處理工作，包括多項污染洩漏事故。2018年，通過加強寶安東江、龍崗東江、惠州東江、江門東江和珠海永興盛等應急隊伍的建設，分別為珠海香洲環保局、珠海斗門環保局、珠海環保局、東莞環保局、惠州仲愷環保分局、深圳龍崗環水局、深圳龍華新區環保局、深圳坪山新區環保局、深圳寶安環水局、深圳南山安監局、深圳寶安安監局等單位，出動應急任務約375次，共處置廢物約1,465噸。我們亦本集團獲深圳市人居環境委員會指定為環境救援依托單位，為社區積極踐行環保企業社會責任。



8.3. CARING FOR THE COMMUNITY

The Group has also approached the Hong Kong community by sponsoring the award-winning football team of Hong Kong Schools Sports Federation — Kwun Tong Maryknoll College Football Team to participate in the “2018 Fair Trade Cup” organised by Fair Trade Hong Kong. The Group contributed efforts in promoting fair trade and addressing poverty in developing countries.

8.3. 關愛社區

本集團更開展於香港社區的聯繫工作，贊助香港學界獲獎足球隊——觀塘瑪利諾書院足球隊參加由香港公平貿易聯盟主辦之「2018公平貿易杯」，為推動公平貿易及解決發展中國家的貧窮問題貢獻力量。



“2018 Fair Trade Cup”
[2018公平貿易杯]



Sponsored team—Kwun Tong Maryknoll College Football Team of Hong Kong
贊助隊伍——觀塘瑪利諾書院足球隊

Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要



Environmental ¹ 環境範疇 ¹	Unit 單位	2018 2018年度
Greenhouse Gas Emissions² 溫室氣體排放量²		
Direct GHG emissions (Scope 1) 直接溫室氣體排放(範圍1)	Tons of CO ₂ e 公噸二氧化碳當量	1,723.9
Indirect GHG emissions (Scope 2) 間接溫室氣體排放(範圍2)	Tons of CO ₂ e 公噸二氧化碳當量	15,150.3
Other indirect GHG emissions (Scope 3) 其他間接溫室氣體排放(範圍2)	Tons of CO ₂ e 公噸二氧化碳當量	4.6
Total GHG emissions (Scope 1, 2 & 3) 溫室氣體排放總量(範圍1, 2 & 3)	Tons of CO ₂ e 公噸二氧化碳當量	16,878.8
Total GHG emissions intensity (per square meter) 溫室氣體排放強度(每平方米)	Tons of CO ₂ e/m ² 公噸二氧化碳當量／平方米	0.3
Total GHG emissions intensity (per employee) 溫室氣體排放強度(每名員工)	Tons of CO ₂ e/employee 公噸二氧化碳當量／員工	12.8

¹ The environmental KPIs of 2018 cover the Group's headquarters' office building in Shenzhen and the Group's segments of industrial hazardous wastes recycling, municipal waste treatment and renewable energy utilization, environmental protection service.

² According to ISO 14064 of Greenhouse Gas Emissions Standard, direct GHG emissions (Scope 1) is the emissions directly owned and controlled by the Group, such as emissions from motorcade; indirect GHG emissions (Scope 2) is the energy indirect emissions, such as the electricity purchased from power companies; and other indirect GHG emissions (Scope 3) is the emissions that are not owned or directly controlled by the Group, but are relevant to the business activities.

¹ 2018年度全年環境範疇數據涵蓋本集團深圳總部辦公大樓及集團旗下工業危廢資源化及處理、市政廢物處理及再生能源利用、環保服務版塊。

² 根據ISO 14064溫室氣體盤查標準，直接溫室氣體排放(範疇一)針對直接來自於組織所擁有及控制的排放源，如自身所擁有的交通工具的排放；間接溫室氣體排放(範疇二)針對能源間接排放源，如購入電力而造成間接之溫室氣體排放；及其他間接溫室氣體排放(範疇三)針對並非由公司擁有或直接控制，但與公司業務活動有關的來源所間接產生的溫室氣體排放。





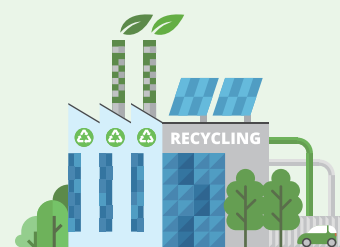
Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要

Environmental ¹ 環境範疇 ¹	Unit 單位	2018 2018年度
Fuel Consumption 燃料消耗		
Amount of diesel consumed by motorcade 車隊耗用的柴油量	Tons 公噸	154,326.3
Amount of gasoline consumed of motorcade 車隊耗用的汽油量	Tons 公噸	94,143.6
Natural gas consumption 天然氣消耗量	Ten thousand m ³ 萬立方米	4.10
Liquefied petroleum gas consumption 液化石油氣消耗量	Ton 公噸	0.8
Diesel consumption 柴油消耗量	Tons 公噸	420.0
Refinery dry gas consumption 煉廠干氣消耗量	Ton 公噸	0.1
Energy Consumption 能源消耗		
Total electricity consumption 總耗電量	MWh 兆瓦時	28,742.82
Total electricity intensity (per square meter) 總耗電強度(每平方米)	MWh/m ² 兆瓦時／平方米	0.48
Total electricity intensity (per employee) 總耗電強度(每名員工)	MWh/employee 兆瓦時／員工	21.74
Water Consumption 水源消耗		
Total water consumption 總耗水量	Ten thousand m ³ 萬立方米	36.46
Total water consumption intensity (per square meter) 總耗水強度(每平方米)	Ten thousand m ³ /m ² 萬立方米／平方米	0.0006
Total water consumption intensity (per employee) 總耗水強度(每名員工)	Ten thousand m ³ /employee 萬立方米／員工	0.03

Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要



Environmental ¹ 環境範疇 ¹	Unit 單位	2018 2018年度
Hazardous Waste 有害廢棄物		
Hazardous waste production ³ 有害廢棄物產量 ³	Tons 公噸	3,342.7
Hazardous waste recycling ³ 有害廢棄物回收量 ³	Tons 公噸	3,189.4
Total production of hazardous waste ⁴ 有害廢棄物總產量 ⁴	Tons 公噸	153.3
Hazardous waste production intensity (per employee) 有害廢棄物產量強度(每名員工)	Ton/employee 公噸／員工	0.1
Total production of other hazardous waste ⁵ 其他有害廢棄物總產量 ⁵	Kg 千克	28
	Sets of computer 台電腦	3
³ The hazardous waste include ash, slag from incineration, waste liquid from laboratory, oxidant desulfurizer and waste oil ³ 有害廢棄物包括焚燒飛灰、焚燒爐渣、化驗室廢液、氧化劑脫硫劑和廢油		
⁴ Total production of hazardous waste = Hazardous waste production – Hazardous waste recycling ⁴ 有害廢物總產量 = 有害廢物產量 – 有害廢物回收量		
⁵ Other hazardous waste include waste batteries and computer ⁵ 其他有害廢棄物包括廢電池和廢電腦		





Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要

Environmental ¹ 環境範疇 ¹	Unit 單位	2018 2018年度
Non-hazardous Waste 無害廢棄物		
Non-hazardous waste production ⁶ 無害廢棄物產量 ⁶	Tons 公噸	9,614.3
Non-hazardous waste recycling ⁶ 無害廢棄物回收量 ⁶	Tons 公噸	7,501.3
Total production of non-hazardous waste ⁷ 無害廢棄物總產量 ⁷	Tons 公噸	2113.0
Non-hazardous waste intensity (per employee) 無害廢棄物強度(每名員工)	Tons/employee 公噸／員工	1.6
Paper consumption 紙張消耗	Reams 令	1,839
Paper consumption intensity (per employee) 紙張消耗強度(每名員工)	Reams/employee 令／員工	1.4
Newly Planted Trees 新種植樹木		
Newly planted trees 新種植樹木	Trees 棵	592

⁶ Non-hazardous waste include smelting waste, waste paper, waste plastic, domestic garbage, sludge, food waste

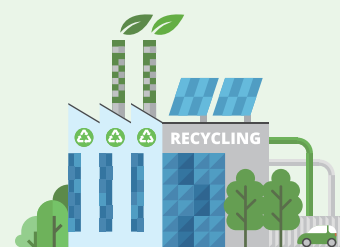
⁶ 無害廢棄物包括冶煉廢渣、廢紙、廢塑料、生活垃圾、污泥、廚餘

⁷ Total production of non-hazardous waste = Non-hazardous waste production - Non-hazardous waste recycling

⁷ 無害廢物總產量 = 無害廢物產量 - 無害廢物回收量

Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要



Social ⁸ 社會範疇 ⁸	Unit 單位	2018 2018年度
Total Employee 僱員總數		
Total employee 僱員總數	No. of people 人數	4,609
Female employee 女性僱員	No. of people 人數	908
Male employee 男性僱員	No. of people 人數	3,701
Employees by Employment Type 按職位類型劃分的僱員		
Junior 初級員工	No. of people 人數	4,204
Intermediate management 中級管理層	No. of people 人數	335
Senior management 高級管理層	No. of people 人數	70
Employees by Age Group 按年齡組別劃分的僱員		
30 and below 30歲及以下	No. of people 人數	1,270
31–50 31–50歲	No. of people 人數	2,916
51 and above 51歲及以上	No. of people 人數	423

⁸ The social KPIs of 2018 cover the Group.

⁸ 2018年度全年社會範疇數據涵蓋全集團範圍。





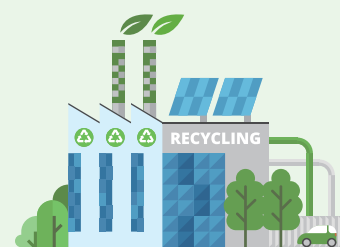
Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要

Social ⁸ 社會範疇 ⁸	Unit 單位	2018 2018年度
Employees by Geographical Region 按地區劃分的僱員		
Employees from North China 華北區域僱員	No. of people 人數	209
Employees from East China 華東區域僱員	No. of people 人數	701
Total no. of Employees from Central China 華中區域僱員	No. of people 人數	597
Total no. of Employees from Northwest China 西北區域僱員	No. of people 人數	91
Total no. of Employees from Southern China 南方區域僱員	No. of people 人數	2,976
Employees from other locations (including Hong Kong, Macau, Taiwan) 其他總數(包括港澳台)	No. of people 人數	35
Turnover Rate of Employee by Gender 按性別劃分僱員流失比率		
Total turnover rate 總流失率	%	30.5
Male employees 男性	%	30.3
Female employees 女性	%	31.6
Turnover Rate of Employee by Age Group 按年齡組別的僱員流失比率		
30 and below 30歲及以下	%	47.7
31-50 31-50歲	%	25.0
51 and above 51歲及以上	%	17.3

Appendix I: Sustainability Data Statements

附錄一：可持續發展數據摘要



Social ⁸ 社會範疇 ⁸	Unit 單位	2018 2018年度
Turnover Rate of Employee by Geographical Region 按地區劃分的僱員流失比率		
Employees from North China 華北區域僱員	%	12.4
Employees from East China 華東區域僱員	%	46.5
Employees from Central China 華中區域僱員	%	27.6
Employees from Northwest China 西北區域僱員	%	44.0
Employees from Southern China 南方區域僱員	%	28.6
Employees from other locations (including Hong Kong, Macau, Taiwan) 其他總數(包括港澳台)	%	0.0
Percentage of Employees Trained by Employee Category 按僱傭類別劃分的受訓僱員百分比		
Junior 初級員工	%	19.4
Intermediate management 中級管理層	%	68.1
Senior management 高級管理層	%	71.4
Average Training Hours Completed per Employee by Employee Category 按僱傭類別劃分的每名僱員完成受訓的平均時數		
Junior 初級員工	Hours 小時	81
Intermediate management 中級管理層	Hours 小時	11
Senior management 高級管理層	Hours 小時	4
Case of Work-related Fatalities and Injury 因工傷亡個案		
Case of work-related fatalities 因工死亡個案	No. of case 個案	0
Lost days due to work injury 因工傷損失工作日數	Day 天	424



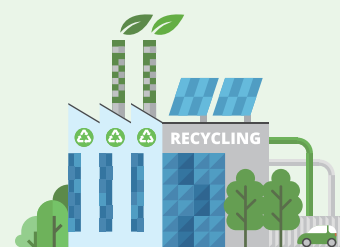
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附錄二：《環境、社會及管治報告指引》內容索引

Description of the Indicator 指標內容			Related Section(s) 相關章節
A. Environmental A. 環境			
A1: Emissions A1：排放物	General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste. 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無害廢棄物的產生等的：(a) 政策；及(b) 遵守對發行人有重大影響的相關法律及規例的資料。	Environmental Management — Environmental Protection Business 環境管理－環保業務
	A1.1	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	Environmental Management — Environmental Protection Business 環境管理－環保業務
	A1.2	Greenhouse gas emissions in total and, where appropriate, intensity. 溫室氣體總排放量及密度。	Environmental Management — Low Carbon Operation 環境管理－低碳營運
	A1.3	Total hazardous waste produced and, where appropriate, intensity. 所產生有害廢棄物總量及密度。	Sustainability Data Statements 可持續發展關鍵績效摘要
	A1.4	Total non-hazardous waste produced and, where appropriate, intensity. 所產生無害廢棄物總量及密度。	Sustainability Data Statements 可持續發展關鍵績效摘要
	A1.5	Description of measures to mitigate emissions and results achieved. 描述減低排放量的措施及所得成果。	Environmental Management — Low Carbon Operation 環境管理－低碳營運

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Description of the Indicator 指標內容			Related Section(s) 相關章節
	A1.6	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved. 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。	Environmental Management — Low Carbon Operation 環境管理－低碳營運
A2: Use of Resources A2：資源使用	General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源(包括能源、水及其他原材料)的政策。	Environmental Management — Low Carbon Operation 環境管理－低碳營運
	A2.1	Direct and/or indirect energy consumption by type in total and intensity. 按類型劃分的直接及／或間接能源(如電、氣或油)總耗量及密度。	Sustainability Data Statements 可持續發展關鍵績效摘要
	A2.2	Water consumption in total and intensity. 總耗水量及密度。	Sustainability Data Statements 可持續發展關鍵績效摘要
	A2.3	Description of energy use efficiency initiatives and results achieved. 描述能源使用效益計劃及所得成果。	Environmental Management — Low Carbon Operation 環境管理－低碳營運
	A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency initiatives and results achieved. 描述求取適用水源可有任何問題，以及提升用水效益計劃及所得成果。	Environmental Management — Low Carbon Operation 環境管理－低碳營運





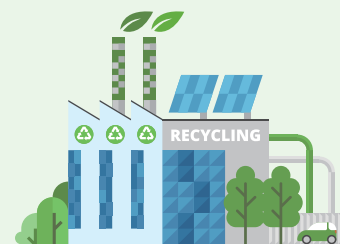
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附錄二：《環境、社會及管治報告指引》內容索引

Description of the Indicator 指標內容		Related Section(s) 相關章節	
	A2.5	Total packaging material used for finished products and, if applicable, with reference to per unit produced. 製成品所用包裝材料的總量及每生產單位佔量。	Not applicable. The Group's business does not involve packaging materials 不適用，本集團業務不涉及包裝材料
A3: The Environment and Natural Resources A3：環境及天然資源	General Disclosure 一般披露	Policies on minimising the issuer's significant impact on the environment and natural resources. 減低發行人對環境及天然資源造成重大影響的政策。	Environmental Management — Environmental Protection Business 環境管理－環保業務 Environmental Management — Low Carbon Operation 環境管理－低碳營運
	A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them. 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動。	Environmental Management — Environmental Protection Business 環境管理－環保業務 Environmental Management — Low Carbon Operation 環境管理－低碳營運
B. Social B. 社會			
B1: Employment B1：僱傭	General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare. 有關薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利的：(a) 政策；及(b) 遵守對發行人有重大影響的相關法律及規例的資料。	Talent Development — Practices for Employment 人才發展－員工僱傭常規 Talent Development — Employee Benefits 人才發展－員工福利待遇

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附錄二：《環境、社會及管治報告指引》內容索引



Description of the Indicator 指標內容			Related Section(s) 相關章節
	B1.1	Total workforce by gender, employment type, age group and geographical region. 按性別、僱傭類型、年齡組別及地區劃分的僱員總數。	Talent Development – Practices for Employment 人才發展－員工僱傭常規 Sustainability Data Statements 可持續發展關鍵績效摘要
	B1.2	Employee turnover rate by gender, age group and geographical region. 按性別、年齡組別及地區劃分的僱員流失比率。	Sustainability Data Statements 可持續發展關鍵績效摘要
B2: Health and Safety 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。	Talent Development – Health and Safety of Employees 人才發展－員工健康與安全
	B2.1	Number and rate of work-related fatalities. 因工作關係而死亡的人數及比率。	Talent Development – Health and Safety of Employees 人才發展－員工健康與安全 Standard Operation – Safety Management System 規範運營－安全管理體系 Sustainability Data Statements 可持續發展關鍵績效摘要





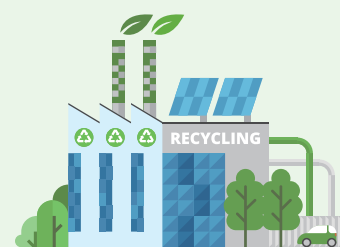
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Description of the Indicator 指標內容			Related Section(s) 相關章節
	B2.2	Lost days due to work injury. 因工傷損失工作日數。	Sustainability Data Statements 可持續發展關鍵績效摘要
	B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored. 描述所採納的職業健康與安全措施，以及相關執行及監察方法。	Talent Development – Health and Safety of Employees 人才發展－員工健康與安全
	B3: Development and Training B3：發展及培訓	General Disclosure 一般披露	Policies on improving employees’ knowledge and skills for discharging duties at work. Description of training activities. 有關提升僱員履行工作職責的知識及技能的政策。描述培訓活動。
	B3.1	The percentage of employees trained by gender and employee category. 按性別及僱員類別(如高級管理層、中級管理層等)劃分的受訓僱員百分比。	Talent Development – Cultivate Professional Teams 人才發展－培育專業團隊
	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。	Talent Development – Cultivate Professional Teams 人才發展－培育專業團隊

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Description of the Indicator 指標內容			Related Section(s) 相關章節
B4: Labour Standards 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。	Talent Development – Practices for Employment 人才發展－員工僱傭常規 Talent Development – Employee Benefits 人才發展－員工福利待遇
	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。	Talent Development – Practices for Employment 人才發展－員工僱傭常規 Talent Development – Employee Benefits 人才發展－員工福利待遇
	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。	Talent Development – Practices for Employment 人才發展－員工僱傭常規 Talent Development – Employee Benefits 人才發展－員工福利待遇
B5: Supply Chain Management 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。	Standard Operation – Supplier Management 規範運營－供應商管理
	B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目。	The Group will consider to disclose the relevant information in the future. 本集團將考慮日後披露有關資料。





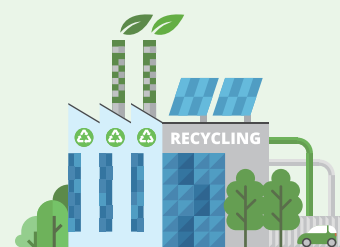
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Description of the Indicator 指標內容		Related Section(s) 相關章節	
	B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, how they are implemented and monitored. 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目、以及有關慣例的執行及監察方法。	Standard Operation – Supplier Management 規範運營－供應商管理
B6: Product Responsibility 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。	Standard Operation – Safety Management System 規範運營－安全管理體系
	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。	Not applicable. The Group's business does not involve products sold or shipped 不適用，本集團業務不涉及已售或已運送產品
	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。	The Group will consider to disclose the relevant information in the future. 本集團將考慮日後披露有關資料。

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Description of the Indicator 指標內容		Related Section(s) 相關章節	
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。	Respect the Intellectual Property Rights 規範運營－尊重知識產權	
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。	Standard Operation – Safety Management System 規範運營－安全管理體系	
B6.5	Description of consumer data protection and privacy policies, how they are implemented and monitored. 描述消費者資料保障及私隱政策，以及相關執行及監察方法。	Standard Operation – Securing the Information Security 規範運營－保障信息安全	
B7: Anticorruption B7：反貪污	General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering. 有關防止賄賂、勒索、欺詐及洗黑錢的：(a)政策；及(b)遵守對發行人有重大影響的相關法律及規例的資料。	Standard Operation – Anti-corruption 規範運營－反腐倡廉
B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases. 於匯報期內對發行人或其僱員提出並已審結的貪污訴訟案件的數目及訴訟結果。	Standard Operation – Anti-corruption 規範運營－反腐倡廉	





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Description of the Indicator 指標內容		Related Section(s) 相關章節	
	B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored. 描述防範措施及舉報程序，以及相關執行及監察方法。	Standard Operation – Anti-corruption 規範運營－反腐倡廉
B8: Community Investment B8：社區投資	General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests. 有關以社區參與來瞭解營運所在社區需要和確保其業務活動會考慮社區利益的政策。	Community Development 社區建設
	B8.1	Focus areas of contribution. 專注貢獻範疇。	Community Development 社區建設
	B8.2	Resources contributed. 在專注範疇所動用資源。	Community Development 社區建設



DONGJIANG ENVIRONMENTAL COMPANY LIMITED*

東江環保股份有限公司