



DONGJIANG ENVIRONMENTAL COMPANY LIMITED*

东江环保股份有限公司

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

(于中华人民共和国注册成立之股份有限公司)

Stock Code 股份代号 : 00895

Environmental, Social and Governance Report

2017

环境、社会及 管治报告



* For identification purpose only 仅供识别



CONTENT 目录

1	About the Report	关于本报告	2
	1.1. Reporting Scope	1.1. 报告范围	3
	1.2. Reporting Standard	1.2. 报告准则	3
	1.3. Stakeholder Engagement	1.3. 利益相关者参与	4
	1.4. Information and Feedback	1.4. 信息及反馈	7
2	Message from the Chairman	董事长致辞	8
3	Sustainable Development Strategy	可持续发展战略	10
4	Core Business	核心业务	12
	4.1. Four Business Highlights	4.1. 四大业务亮点	15
	4.2. Technical Achievements Overview	4.2. 技术成就概览	33
	4.3. Annual Awards List	4.3. 年度奖项一览	35
5	Environmental Management	环境管理	37
	5.1. Low Carbon Production	5.1. 低碳生产	38
	5.2. Low Carbon Office	5.2. 低碳办公	39
6	Standard Operation	规范运营	44
	6.1. EHS "Three Simultaneous" Management	6.1. EHS「三同时」管理	46
	6.2. Annual Inspection - Objective	6.2. 一年一检一目标	48
	6.3. Supplier Management	6.3. 供应商管理	50
	6.4. Safety Training	6.4. 安全培训	53
	6.5. Information Security	6.5. 信息安全	53
7	Talent Development	人才发展	54
	7.1. Aggregation of Good Employees	7.1. 汇聚好员工	54
	7.2. To Serve Employees Better	7.2. 待员工更好	56
	7.3. Nurture the Best Employees	7.3. 成就最好的员工	58
8	Charity Work	公益投放	69
	8.1. Environmental Public Education	8.1. 环境公众教育	69
	8.2. Emergency Rescue Operation	8.2. 应急救援行动	70
	8.3. Assisting in targeted Poverty Alleviation	8.3. 助力精准扶贫	71
9	Key Performance Summary of Sustainable Development	可持续发展关键绩效摘要	73
10	Appendix: Index of the Environmental, Social and Governance Reporting Guidelines of the Hong Kong Stock Exchange	附录：香港联合交易所《环境、社会及管治报告指引》索引	77



About the Report

关于本报告

The environmental, social and governance report (“ESG Report”) provides detailed information on the various works of Dongjiang Environmental Company Limited* (the “Company”) and its subsidiaries (the “Group”) in full implementation of the concept of sustainability throughout 2017. The Company is a holding subsidiary of Guangdong Province of Guangdong Rising Assets Management Co., Ltd. Established in 1999, it is a listed environmental protection company in Shenzhen and Hong Kong (HK00895, SZ002672). The Group is committed to the development of industrial and municipal waste resources utilization and harmless treatment, supporting sewage treatment, environmental testing, environmental engineering and other businesses. The Group is casting a multi-level environmental service platform centering on waste recycling, customizing and providing one-stop environmental protection services for different stages of development of enterprises. The Group is also committed to becoming China’s leading one-stop integrated environmental service provider based on hazardous waste and driven by technological innovation. We are convinced that, being an industry leader, a comprehensive report is an important indicator of fulfilling corporate social responsibility. It will help enhance the quality of corporate management and strengthen the Group’s position in the industry.

The board of directors of the Group assumes all responsibility for the Group’s environmental, social and governance strategies and reporting. The implementation of the environmental, social and governance policies is reviewed every year. The board of directors of the Group leads the management of the Group to evaluate environmental, social and governance risk management and internal control systems to ensure that the Group complies with relevant legal and regulatory requirements and keep a close communication between internal stakeholders (including board of directors, management, executives and general employees) and external stakeholders (shareholders, customers, government/regulatory authorities and community groups).

本环境、社会及管治报告(「ESG报告」)详述东江环保股份有限公司(「本公司」)及包含子公司(「本集团」)在2017年内全面实践可持续发展理念的工作。本公司创立于1999年，是国内于深港两地上市环保企业(HK00895，SZ002672)，广东省属企业广东省广晟资产经营有限公司的控股子公司。本集团致力发展工业和市政废物的资源化利用与无害化处理，配套污水治理、环境检测、环境工程等业务，铸造以废物资源化为核心的多层次环保服务平台，为企业的不同发展阶段定制和提供一站式环保服务，致力成为以技术创新为驱动，以危废为基础的中国领先的一站式综合环保服务提供商。我们深信身为行业领跑者，完善的报告是履行企业社会责任的重要指标，有助提升企业管理质素，巩固本集团于行业内的地位。

本集团董事会对集团的环境、社会及管治策略及汇报承担所有责任，每年均审查环境、社会及管治政策的实施，并带领管理层评估本集团于环境、社会及管治的风险管理及内部监控系统，确保本集团符合相关法律及监管要求，与内部利益相关者(包括董事会、管理层、行政人员和一般员工)及外部利益相关者(股东、客户、政府/监管部门和社区团体)保持紧密沟通。





1.1. Reporting Scope

The content of ESG Report is mainly reported in the core business of the Mainland China, covering the headquarters of the Group and five major subsidiaries in the four business areas from 1 January 2017 to 31 December 2017 (“the current year”) in which the important performances in the environment and society are compiled. For the content of corporate governance, please refer to the Corporate Governance Report on page 33 of the annual report.

1.2. Reporting Standard

The ESG Report is prepared in accordance with the Guidelines for Environmental, Social and Governance Reporting in Appendix 27 of the Main Board Listing Rules of the Stock Exchange of Hong Kong Limited. The contents of the report are also in line with the disclosure principles required in the Guidelines. Unless otherwise noted, the information disclosed in this report is based on the substantive assessments, stakeholder interviews and other relevant sustainability reporting guidelines. The information collected and analyzed in the report is compiled based on relevant international or local guidelines and the standards.

1.1. 报告范围

ESG 报告的内容主要集中汇报于中国内地的核心业务，涵盖本集团的总部，以及四大业务范畴内的5家主要分、子公司，于2017年1月1日至2017年12月31日（「本年度」）在环境及社会方面的重要表现编写而成。至于有关企业管治的内容，请参阅于年报第33页的《企业管治报告》。

1.2. 报告准则

ESG 报告依照香港联合交易所有限公司《主板上市规则》附录27《环境、社会及管治报告指引》所编写，涵盖的报告内容亦符合《指引》中要求的披露原则。除额外注明，本报告所披露之内容是基于实质性评估、利益相关者访谈和其他相关的可持续发展报告指引而厘订，报告内的数据收集及分析乃根据相关之国际或当地指引及准则所编写而成。



About the Report

关于本报告

1.3. Stakeholder Engagement

In preparation of the ESG Report, the Group actively coordinated the participation of employees in the department to achieve a clearer understanding of the current development level of the Group at the environmental and social levels. We also communicated with stakeholders through different channels to listen to their expectations of the Group and to continue to define and compile the report in a way that is consistent with the expectations of the community in a quantitative, balanced and consistent reporting principle. The information collected by the ESG Report not only summarizes the environmental and social related work of the Group in 2017, but also serves as a solid foundation for developing short-term and long-term sustainable development strategies.

1.3. 利益相关者参与

本集团在ESG报告的编写中，主动协调部门员工的参与，务求更清晰了解目前本集团在环境和社会层面的发展水平。我们亦透过不同渠道与利益相关者沟通，聆听他们对本集团的期望，务求继续以量化、平衡及一致性的汇报原则，以符合社会期望的方式，界定及编写报告内容。ESG报告收集的资料，既为本集团于2017年开展环境和社会相关工作的总结，更是作为制定短期和长期可持续发展策略的坚实基础。

Overview of channels of Stakeholder Engagement

利益相关者参与渠道一览



Key stakeholders 主要利益相关者	Main communication channel 主要沟通渠道
Shareholder 股东	<ul style="list-style-type: none">● Annual General Meeting and other general meetings of Shareholders 股东周年大会与其他股东大会● Interim report and annual report 中期报告与年报● Corporate communication 企业通讯● Results Announcement 业绩公布● Visiting activities 参观活动





Key stakeholders
主要利益相关者

Main communication channel
主要沟通渠道

Customer
客户

- Customer Satisfaction Survey and Opinion Form
客户满意度调查和意见表
- Customer Advisory Group
客户咨询小组
- Customer Service Center
客户服务中心
- Customer Relationship Manager visit
客户关系经理探访
- Daily operation/communication
日常营运/交流
- Online service platform, telephone, mailbox
网上服务平台、电话、邮箱

Employee
员工

- Employee opinion survey
员工意见调查
- Employee suggestion box
员工意见箱
- Performance appraisal and performance interviews
工作表现评核及绩效面谈
- Group discussion
小组讨论
- Business Briefing
业务简报
- Conference Interview
会议面谈
- Employee publication
员工刊物
- Staff communication conference
员工沟通大会
- Employee intranet
员工内联网
- Seminar/Workshop/Lecture
研讨会/工作坊/讲座



About the Report

关于本报告



Key stakeholders 主要利益相关者	Main communication channel 主要沟通渠道
Business Partner 业务伙伴	<ul style="list-style-type: none">● Report 报告● Conference 会议● Lecture 讲座
Regulatory Authority 监管机构	<ul style="list-style-type: none">● Conference 会议● Written response to public consultation 对公众咨询的书面回应● Compliance Report 合规报告
Community 社区	<ul style="list-style-type: none">● Charitable activities 公益活动● Donation 捐献
Financial Institutions 金融机构	<ul style="list-style-type: none">● The Group's notice 集团通告
Supplier 供应商	<ul style="list-style-type: none">● Supplier management program 供货商管理程序● Conference 会议● Supplier/Contractor Evaluation System 供货商/承办商评估制度● Site visits 实地视察





Key stakeholders
主要利益相关者

Main communication channel
主要沟通渠道

Industry association
行业协会

- Conference
会议
- Working Group
工作小组

1.4. Information and Feedback

For more information on the Group's environmental and corporate governance, please refer to the Group's official website (www.dongjiang.com.cn) and the annual report. The Group values your views on this report. If you have any comments or suggestions, please feel free to email to the following email address: ir@dongjiang.com.cn.

1.4. 信息及反馈

有关本集团环境及企业管治的详细信息，请参阅本集团的官方网站(www.dongjiang.com.cn)及年报。本集团重视您对此份报告的看法，若阁下有任何意见或建议，欢迎以电邮形式发送至以下邮箱：ir@dongjiang.com.cn。



Message from the Chairman

董事长致辞

Since 2017, as China marched into the critical period which focused on improving environmental quality during “13th Five-Year Plan”, the positive signal can be seen gradually in the development of the environmental protection industry. The implementation of key policies such as environmental protection taxes and pollutant discharge license and the continued normalization of environmental protection inspections effectively stimulated the release of governance demands and steadily promoted the healthy development of the industry. The environmental protection industry ushered in the golden development period of an accelerated process of “effect-orientation”.

Unswervingly following the guidance of the corporate development strategy and practicing the corporate mission of “making the world no waste”, the Company focused on the main business of hazardous waste treatment, maintained its leading position by making innovative and proactive explorations and expansions, and developed other business related to environmental protection such as municipal waste treatment, sewage treatment and environment monitoring, so as to realize the coordinated and efficient development of multiple business forms, achieve standardized and modularized operation, enhance the industrial integration and coordination capability, promote the innovation, and contribute to the quality development of the economic society.

We are convinced that economic social development and ecological civilization are in parallel and we can implement overall development as green development which is an inevitable requirement for building a high-quality modern economic system. In 2017, the Group optimized its strategic plan, focused on the main business of hazardous waste, provided high-quality environmental services for more than 20,000 customers, successfully completed its annual business objectives and made due contributions to the environment and society.

2017年以来，随著中国进入「十三五」以改善环境质量为重点的关键时期，环保产业发展逐渐释放出积极信号。环保税、排污许可证等关键政策落地、环保督察常态化持续推进等，有效带动治理需求释放、稳步推进行业健康发展，环保行业迎来「效果化」进程加速的黄金发展阶段。

本集团始终坚定不移地以公司发展战略为指引，践行「让世界没有垃圾」的企业使命，坚持把危废业务作为本公司的立身之本，巩固龙头地位，坚持创新驱动，积极探索及拓展多种业态，发展市政废物处理、污水处理和环境监测等其他环保业务，实现多种业务形式的协同、高效发展，实施标准化和模块化运营，提高行业整合和统筹能力，引领带动环保产业创新，促进经济社会高质量发展。

我们深信经济社会发展与生态文明并行不悖，可贯彻统筹为绿色发展，这是构建高质量现代化经济体系的必然要求。2017年度本集团优化战略规划，聚焦危废主业，为超过2万家客户提供优质环境服务，较好地完成了年度经营目标，亦为环境和社会做出应有的贡献。





2018 is the beginning year to comprehensively implement the spirit of the 19th CPC National Congress and the 40th anniversary of the reform and opening-up. The reports of the 19th CPC National Congress indicate that the socialism with Chinese characteristics has entered the new era, and the strategic planning such as the ecological civilization development and pollution prevention campaign will create broader development prospects of the environmental protection industry. The Group has also formulated a development plan to further refine the strategic objectives of furthering the work of market sub-division, investment and business development, technological innovation and personnel training, and prepare for strategic planning in ecological civilization, pollution prevention and control to create a promising prospects for business development.

We are willing to join hands with our colleagues in the country to seek new developments for the hazardous waste industry and guard the environment.

By Order of the Board

Liu Ren
Chairman

26 July 2018

展望未来，2018年是全面贯彻十九大精神开局之年，改革开放40周年。党的十九大报告宣示了中国特色社会主义进入了新时代，而生态文明建设和打好污染防治攻坚战等战略规划的提出，给环保产业创造了更加广阔的发展前景。本集团亦已制定发展计划，进一步细化市场业务、投资发展、技术创新、人才培养等分项职能战略目标，为生态文明建设和打好污染防治攻坚战等战略规划做好准备，创造更加广阔的发展前景。

我们愿与全国同仁携手，共谋危废产业新发展，共同守护绿水青山。

承董事会命

刘韧
董事长

2018年7月26日



Sustainable Development Strategy

可持续发展战略

In the new era of social development, the Group is closely integrating business performance with corporate social responsibility. On the one hand, we will maintain steady growth in performance and, on the other hand, we will keep in mind the importance of incorporate sustainable development into our business operations and actively contribute to the environment and society.

The Group adheres to the corporate mission of “Making the World No Waste” and focuses on four major areas: “environmental management”, “standard operation”, “talent development” and “charity work”. It is hoped that stakeholders inside and outside the Group will work together on sustainable development.

In order to respond favorably to the call of the state to build a beautiful China and better carry forward the Group’s excellent culture of social responsibility, the Group announced a corporate social responsibility action plan and promised to undertake social responsibility, vigorously develop the green economy, promote the harmony and win-win situation among the Company, society and the environment to be the leader in the environmental industry.

本集团在社会发展的新时代下，在将业绩和企业社会责任紧密结合。一方面保持业绩稳健增长，亦不忘将可持续发展纳入为业务营运的重点，积极为环境及社会作出贡献。

本集团秉持「让世界没有垃圾」的企业使命，专注做好四大范畴：「环境管理」、「规范运营」、「人才发展」、「公益投放」，希望促使集团上下，以及集团内外不同相关利益相关者，共同为履行可持续发展而努力。

为积极响应国家建设美丽中国的号召，更好地发扬本集团富有社会责任感的优秀文化，本集团发布履行企业社会责任行动纲领并承诺：承担社会责任，大力发展绿色经济，促进企业、社会和环境的和谐、共赢，做受人尊敬的环保产业领跑者。





Core Business 核心业务

Over the years, the Group has been striving to improve environmental quality based on its own development experience and advantages and align with the national macro-policy and environmental protection industry development. The Group abide by the overall policy of maintaining solid waste treatment as the core business and supplementing it with regional environmental governance and environmental protection services in order to provide comprehensive waste treatment services for the cities. The Group has achieved rapid development in recent years. It has gradually formed a coverage of the Pan-Pearl River Delta, the Yangtze River Delta and the Midwest region through various environmental protection projects invested and operated in Shenzhen, Huizhou, Shaoguan, Jiangsu Kunshan, Shandong Qingdao, Hunan and Hubei. The industrial layout of the region is centered on harmless treatment and resources utilization of industrial and municipal waste.

本集团多年来坚持为改善环境质量尽一份力，根据自身的发展经验及优势，结合国家宏观政策、环保产业发展。本集团坚持以固废处理为业务核心，配套发展区域环境治理和环保服务两大领域，为城市提供全面的废物处理服务。本集团近年实现了快速发展，通过在广东的深圳、惠州、韶关、江苏昆山、山东青岛以及湖南、湖北等地投资运营的多个环保项目，逐步形成了覆盖泛珠三角、长三角及中西部地区的以工业及市政废物无害化处理及资源化利用为核心的产业布局。





During the Reporting Period, the Group focused on the main business of hazardous waste, optimized strategic planning, vigorously promoted project construction through innovative business models, rapidly increased production capacity through multiple channels, accelerated business expansion and layout and achieved steady growth in revenue and profit. The Group achieved operating income of RMB3.0996586 billion, representing an increase of approximately 18.44% over the same period of 2016. Net profit attributable to shareholders of the Company net of non-recurring gains and losses was approximately RMB463.5235 million, representing an increase of approximately 22.23% over the same period of the previous year. As the core business of the Group, the Company's industrial waste treatment and disposal business generated revenue of RMB1.167 billion, representing an increase of 38.44%. Industrial waste resources utilization business registered revenue of RMB1.182 billion, representing an increase of 49.33%.

In addition, the Group continued to devote more efforts in hazardous waste projects and accordingly signed a number of contracts for various hazardous waste treatment and disposal projects in 2017. After completion of the projects, additional treatment capacity gained totaled about 510,000 tons. Meanwhile, the Group completed construction projects such as Hubei Tianyin, Zhuhai Yongxingsheng and Dongguan Hengjian and promoted construction projects such as Jiangxi Dongjiang, Hengshui Ruijing and Weifang Lanhai, laying a solid foundation for the Group's subsequent sustainable development and realization of benefits.

报告期内，本集团聚焦危废主业，优化战略规划，通过创新业务模式，大力推进项目建设，多渠道快速释放产能、加速业务拓展和布局等措施，实现营收、利润的稳健增长，本集团实现营业收入309,965.86万元，较2016年同期增长约18.44%；扣除非经常性损益影响，归属于上市公司股东的净利润约为人民币46,352.35万元，较去年同期增长约22.23%。作为本集团的核心业务，工业废物处理处置业务实现营收11.67亿元，增长38.44%；工业废物资源化利用业务实现营收11.82亿元，增长49.33%。

此外，本集团继续加大危废项目拓展力度，2017年度签约多个危废综合处理处置项目，建成后合计新增资质约51万吨。同时本集团建设完成湖北天银、珠海永兴盛、东莞恒建等项目，并推动江西东江、衡水睿韬、潍坊蓝海等项目建设，为本集团后续可持续发展及实现效益奠定坚实基础。



Core Business 核心业务

During the Reporting Period, through a series of key project construction, engineering technology reform, qualification optimization and other measures, by the end of 2017, the Group's industrial hazardous waste treatment qualification reached approximately 1.6 million tons, which was conducive to further strengthening the Company's development potential and strategically fostering ancillary industry foundation so that the Company's performance and sustainable growth can be effectively ensured.

In addition to the economic benefits brought by the development of the business, the Group comprehensively examined the benefits brought by its business to the community. It is pleased to find that the Group has made significant progress in the amount of waste disposal and complies with the policy of taking solid waste disposal as its core business, reflecting the concerted efforts of the Group's staff to achieve the goals of strategic plans.

During the Reporting Period, the Group recorded a significant increase in the processing volume of industrial waste, from source to the end in the whole process, providing a strong support for the long-term development of the manufacturing industry in China. In the industrial waste treatment and disposal business, approximately 470,000 tons of industrial waste were processed, representing an increase of approximately 28% compared with 2016. Regarding the business of industrial waste resources utilization, a total of approximately 82,000 tons of recycled products were recycled, representing an increase of approximately 21.50% over 2016, effectively reducing resource consumption of the real economy. It is in line with the national development of the circular economy, the basic national policy of saving resources and protecting the environment.

报告期内，通过一系列重点项目建设、工程技改、资质优化等措施手段，截止2017年底本集团工业危废处理资质达约160万吨，有利于进一步增强公司发展后劲，培育战略配套产业基础，有效保障公司业绩的持续增长。

在业务发展所带来的经济效益以外，本集团更全面检视业务为社会创造的效益，欣然发现本集团在废物处理量上有长足的进步，合乎以固废处理为业务核心之方针，反映集团上下同心协力落实战略规划的成果。

报告期内，本集团在工业废物之处理量录得显著升幅，从源头到末端全过程治理，为国家制造业的长远发展提供有力的支持。在工业废物处理处置的业务中，合共处理约47万吨工业废物，较2016年增加约28%；而工业废物资源化利用的业务中，回收生产出合共约8.2万吨的资源化产品，较2016年增长约21.50%，有效降低实体经济的资源消耗，配合国家发展循环经济，节约资源和保护环境的基本国策。





As for the business of municipal waste treatment, it is important to create a good living environment for people. The Group therefore insists on putting 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 42 million tons of municipal waste treatment, representing an increase of approximately 5% compared with 2016 while renewable energy utilization business generated 173 million kWh. In addition, landfill gas power generation projects can reduce greenhouse gas emissions and comply with the Clean Development Mechanism under the Kyoto Protocol to create a better living environment for cities.

The Group has established strict quality control systems and procedures, possesses a team of excellent quality control professionals and advanced quality testing facilities. The Group also strictly enforces the requirements of relevant national laws, regulations and standards. During the Reporting Period, the Company did not have any major disputes arising from product and service quality problems or was severely punished for violation of laws and regulations regarding technical supervision of product and service quality.

4.1. Four Business Highlights

The Group aims at building a multi-layered green service platform centering on waste recycling, thereby providing one-stop environmental services customized to different developmental stages of enterprises and offering comprehensive solutions of waste management to various cities. It has established a comprehensive industrial value chain targeting at the reduction, harmless disposal and recycling of solid waste, which covers the collection, recycling treatment and disposal of industrial waste, the management of landfills for municipal waste, landfill gas power generation and operation of Clean Development Mechanism ("CDM") projects, and the treatment of kitchen waste. The Group's business has fully covered the above areas.

至于市政废物处理处置的业务，乃为人民创造良好生活环境的要务，本集团故坚持努力不懈提升处理效率，以满足人民日益增长的美好生活需要。报告期内市政废物处理处置量录得合共超4,200万吨市政废物处理量，较2016年增加约5%；而再生能源利用业务发电量1.73亿度。此外，填埋气发电项目可减少温室气体的排放，符合《京都议定书》规定的清洁发展机制，为城市创造更优质的生活环境。

本集团建立了严格的质量管理制度和流程，配备了过硬的质量管理专业人才和先进的质量检测设施，严格执行国家相关法律、法规和标准的要求。报告期内，公司未发生因产品和服务质量问题而导致的重大纠纷或因违反有关产品和服务质量监督方面的法律法规而受到重大处罚。

4.1. 四大业务亮点

本集团已建立一套针对固体废物减量化、无害化、资源化处理的完整产业链，铸造以废物资源化为核心的多层次环保服务平台，为企业的不同发展阶段定制和提供一站式环保服务，并为城市废物管理提供整体解决方案。从工业废物的收集、资源化利用到处理处置，生活垃圾填埋场的管理、填埋气发电到清洁生产机制(Clean Development Mechanism，缩写CDM)项目运营，餐厨垃圾处理，本集团的业务都全面覆盖。





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 comprehensive system management and achieve a rapid and steady development of the Group. In business development, as part of its commitment to environmental impact assessment of construction projects and the "Three Simultaneous" system, the Group performs internal monitoring of environmental data and engages qualified third parties to carry out monitoring on a regular basis, while publishing the environmental impact assessment report and the monitoring results on its official website, thereby providing real-time information on pollutant emission to the public. Furthermore, the Group also set up key pollutant discharge units with an automatic monitoring system of source of pollution, which is interconnected with the local environmental protection bureau, to facilitate real-time supervision of the authority.

本集团坚持依法合规经营，严格遵循国家及监管机构的法律法规，包括《中华人民共和国环境保护法》、《中华人民共和国循环经济促进法》、《全国生态环境保护纲要》、《中华人民共和国环境影响评价法》等，持续加强企业治理及风险防控机制，以完善全面系统管理，实现本集团的快速稳健增长与发展。在业务发展中，本集团亦会定期进行环境数据的内部监测及第三方监测，履行项目环境影响评估和「三同时」制度，并将环境影响评估报告和监测结果公布于官方网站，让公众实时监察污染物排放。本集团重点排污单位设有与地方环保局联网的污染源自动监控系统，令环保部门执行实时监督。

Four major business areas:

四大业务范畴：



4.1.1. Industrial waste treatment and resource utilization

The Company has 44 categories of hazardous waste operations in the 46 categories of national hazardous wastes, with more than 200 types of wastes for treatments and serving more than 20,000 customers. The Group has a number of 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 hazardous wastes are treated in a harmless manner and are finally disposed to eliminate potential pollution hazards to the environment. During the process, the Group strictly follows the national and local environmental protection laws and regulations, including the Environmental Protection Law of the PRC, the Law of the PRC on the Prevention and Control of Environmental Pollution by Solid Waste, the Integrated Wastewater Discharge Standards (GB8978-1996), the Regulations on the Administration of Construction Projects Environmental Protection and local environmental protection regulations, and so on.

In the process of reduction and harmless treatment, the Group will convert the useful components of different types of industrial hazardous waste collected into valuable resource-based products. Currently, the Company recycles more than 80,000 tons of copper salt series products, nickel salt series products, tin salt products, organic solvents and mineral oil from various types of wastes every year. They are mainly sold to chemical and feed additive manufacturers.

4.1.1. 工业废物处理及资源化利用

本公司拥有国家危险废物名录46大类中的44大类危险废物运营资质，处理种类达200余种，服务的客户2万余家。本集团建有物理化学处理、生物处理、焚烧热处理、安全填埋等相关处理手段的多个危险废物处理基地，通过不同技术路线的组合对复杂多样的危险废物进行无害化处理及最终处置，消除对环境的污染隐患。在处理过程中，本集团严格遵守国家和地方的环保法律和法规，包括《中华人民共和国环境保护法》、《中华人民共和国固体废物污染环境防治法》、《污水综合排放标准》(GB8978-1996)《建设项目环境保护管理条例》及各地方环境保护条例等。

而本集团所收集到的工业危险废物在减量化，无害化处理过程中，会将不同种类废物中的有用成分，转化为有价值的资源化产品。目前公司每年从各类废物中进行资源化综合利用生产铜盐系列产品、镍盐系列产品、锡盐产品、有机溶剂、矿物油等8万余吨，主要销售给化工和饲料添加剂生产企业。





The business process of industrial hazardous waste treatment and disposal and resources utilization is as follows:

工业危废处理处置及资源化利用的业务流程如下：

OPERATIONAL PROCESS
业务流程



In the process of industrial waste treatment and resources utilization, the Group has adopted a number of prevention and control measures for comprehensive control of major pollution emissions. According to the concept of multi-level prevention, it processes sludge, waste water and waste gas generated from industrial waste, thereby reducing the damage to the soil, water and atmosphere in the natural environment and reaching various standards of national and local requirements, including the "Integrated Emission Standards for Air Pollutants" (GB16297.1996), "Guangdong Province Air Pollutant Emission Limits" (DB44.27.2001) and "Guangdong Province Water Pollutant Emission Limits" (DB44/26.2001), etc.

在工业废物处理处置及资源化利用的程序中，本集团为求全面控制主要污染排放，采取了多项防治措施，按多重防治的理念，处理工业废物中产生的淤泥、废水和废气，减少对自然环境中的土壤、水体及大气的破坏，并达至国家及地方不同的标准要求水平，包括《大气污染物综合排放标准》(GB16297.1996)、《广东省大气污染物排放限值》(DB44.27.2001)、《广东省水污染物排放限值》(DB44/26.2001)等。



Core Business

核心业务



Sludge 淤泥

- **After removing impurities by pressure filtration, the sludge with high metal content recovered is reused**
经压力过滤去除杂质后，回收金属含量较高的淤泥循环利用
- **Sending sludge from sewage treatment to the heap**
将污水处理沉积之淤泥送往堆埋



Waste Water 废水

- **Establish a wastewater treatment system that can respond to changes in water quality and quantity**
建立可因应水质水量变化的废水处理系统
- **Recycling treated wastewater**
循环再用经处理污水



Waste Gas 废气

- **Physical and chemical purification of waste gas**
以物理及化学方式净化废气
- **Adding exhaust gas purification equipment to incineration facilities**
于焚化设施加装废气净化装置





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 and became a holding subsidiary of the Company in 2015. After the Company’s control, the Company invested approximately RMB150 million to speed up equipment renovation and process upgrade and completed the construction and commissioning of the second phase incineration project. During the Reporting Period, Zhuhai Yongxingsheng’s approved processing qualification was approximately 56,000 tons, possessing 17 categories of hazardous waste business qualifications. The incineration project can treat 9,100 tons of waste per year. As the only comprehensive and normal hazardous waste disposal enterprise with incineration qualification operation in Zhuhai City. The Company provides hazardous waste disposal services for more than 500 customers in Zhuhai.

Zhuhai Yongxingsheng’s incineration process adopts two technologies, namely pyrolysis gasification incinerator as well as rotary kiln incinerator with flue gas treatment facilities, to ensure that emission of flue gas reaches the standard. During the Reporting Period, Zhuhai Yongxingsheng collected and disposed approximately 45,000 tons of waste and the incineration business was basically in full-load production. In addition, Zhuhai Yongxingsheng was the environmental emergency service unit of Zhuhai City, providing emergency services for Zhuhai City during the Reporting Period. A total of approximately 2,000 tons of industrial hazardous waste was treated, contributing to the reduction of environmental pollution in Zhuhai and protection of the local ecological environment.

珠海市斗门区永兴盛环保工业废弃物回收综合处理有限公司

珠海市斗门区永兴盛环保工业废弃物回收综合处理有限公司(以下简称「**珠海永兴盛**」), 成立于1998年12月, 2015年成为本公司控股子公司。本公司控股后投入资金约1.5亿元, 加快设备改造及工艺升级, 并完成二期焚烧项目建设及投产。报告期内, 珠海永兴盛年处理核准处理资质约为5.6万吨, 具备17大类危废经营资质, 其中焚烧项目可处理废物9,100吨/年, 是珠海市唯一一家具有焚烧资质的正常运营的危险废物综合处置企业, 为珠海市500多家客户提供危险废物处置服务。

珠海永兴盛焚烧工艺采用热解气化焚烧炉和回转窑焚烧及配套烟气处理两种技术, 保障烟气排放达标排放。报告期内, 珠海永兴盛收集及处理废物约4.5万吨, 焚烧业务基本满负荷生产; 此外, 珠海永兴盛为珠海市备案环境应急服务单位, 报告期内为珠海市多次提供应急服务工作, 合计处理约2,000吨工业危险废物, 为减少珠海市环境污染、保护当地生态环境贡献一份力量。



Core Business 核心业务

During the course of continuous operation, Zhuhai Yongxingsheng strictly monitors wastewater and exhaust emissions to ensure that major pollutants are below relevant national regulatory limits and regularly entrusted qualified units to monitor the discharge of pollutants after treatment and reported the discharge of pollutants truthfully. The monitoring of certain monitoring points in 2017 by Zhuhai Yongxingsheng was as follows:

在持续运营中，珠海永兴盛严格监测废水及废气排放，确保主要污染物均低于国家相关法规上限，并定期委托有资质的单位对处理后的污染物排放进行监测，如实汇报污染物的排放情况。珠海永兴盛2017年部分监测点位的监测情况如下：

Name of subsidiary 子公司名称	Names of major pollutants and characteristic pollutants 主要污染物及特征污染物的名称	Emission concentration limit 排放浓度限值		Executed pollutant discharge standards 执行的污染物排放标准	Total emissions (ton/year) 排放总量(吨/年)	Audited total emissions (ton/year) 核定的排放总量(吨/年)
		(water: mg/l) (水: mg/l)	(Gas: mg/m ³) (气: mg/m ³)			
Zhuhai Yongxingsheng Environmental Industrial Waste Recycling and Integrated Treatment Co., Ltd.	Waste water: COD, ammonia nitrogen	COD: 90 ammonia nitrogen: 10		Guangdong Province "Air Pollutant Emission Limits" (DB44/27-2001) second-term and secondary standard; urban sewage treatment plant pollutant discharge standards (GB18918-2002) - class B standard	COD: 3.99 ammonia nitrogen: 0.443	COD: 6.14 ammonia nitrogen: 0.68
珠海市斗门区永兴盛环保工业废弃物回收综合处理有限公司	废水: COD、氨氮	COD: 90 氨氮: 10		广东省《大气污染物排放限值》(DB44/27-2001)第二段二级标准;城镇污水处理厂污染物排放标准(GB18918-2002)一级B标准	COD: 3.99 氨氮: 0.443	COD: 6.14 氨氮: 0.68





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 in 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 Dawan District. 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.

江门东江环保技术有限公司

江门市东江环保技术有限公司(以下简称「**江门东江**」)是一家专业从事工业危险废物无害化处理处置及资源化利用的综合性环保企业，始终以保护环境、资源再造为己任，积极倡导并推行循环经济的发展模式，按照「减量化、资源化、无害化」的三大原则，针对不同类别的废物均设计出妥善的综合解决方案，通过先进完善的处理工艺设施和处理技术，使各类废物均可得到安全妥善的处理处置或资源化利用。

江门东江项目总投资额约348亿元人民币，占地面积133万平方米，处理设施包括含铜废物处理车间、废矿物油车间、物化处理车间等，并于2016年正式投产，年工业危险废物处理能力为19.85万吨以及废包装桶25万只，可处理13大类工业危险废物，主要收集和处置江门及大湾区经济发展所产生的工业废物，是目前国内规模较大的工业危险废物综合处理及回收利用基地，已获得上千家客户的信任并保持长期合作。



Core Business 核心业务

Jiangmen Dongjiang guarantees safe transportation of industrial hazardous waste through seamless GPS monitoring during the production process. After comprehensive treatment and resources utilization, Jiangmen Dongjiang produces copper sulfate, basic copper chloride, copper oxide and other copper salt products through physicochemical, evaporation and biochemical processes. The treatment system can reduce, harmlessly treat and disposed of industrial hazardous waste to maximize resources utilization. Annual output of approximately 30,000 tons of resource-based products can be achieved. Sewage discharge reaches Class III standard of the Surface Water Environmental Quality Standard. Jiangmen Dongjiang has disposed of numerous industrial hazardous wastes in local and surrounding environment and reduced potential risks to the environment.

Jiangmen Dongjiang has advanced emergency equipment and emergency 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 concept and high environmental awareness, Jiangmen Dongjiang provides comprehensive services for various industries for collection, transportation, treatment and disposal of hazardous wastes with advanced technology and professional teams. Internally, the Company has passed ISO14001 environmental management, ISO9001 quality management and OHSAS18001 occupational health and safety management system certification, thereby providing a solid foundation for the Company's sustainable and stable development.

江门东江通过全程无缝GPS监控保障工业危险废物安全运输，经过综合处理及资源化充分利用，生产硫酸铜、碱式氯化铜、氧化铜等系列铜盐产品，并通过物化、蒸发、生化等处理系统进行减量化、无害化处理处置，实现资源利用最大化，可实现年输出约3万吨资源化产品，污水排放达到《地表水环境质量标准》III类标准，解决当地及周边环境较多工业危险废物出路问题，减少对环境的潜在风险。

江门东江拥有先进的应急装备和应急专业人员，多次独立完成了各种环境事故的应急处理，减少了危险化学品或废物对周边环境的污染以及风险。江门东江秉承严谨的管理理念和高度的环保意识，对外，以先进的技术及专业的团队，为各个行业提供了完善的危险废物收集、运输、处理和处置的整体服务；对内，公司通过了ISO14001环境管理、ISO9001质量管理及OHSAS18001职业健康安全管理体系认证，以坚实的基础为公司持续稳定发展提供有力的支持。





Major air pollutant emissions of Jiangmen Dongjiang:

江门东江主要污染物排放：



Name of subsidiary	Names of major pollutants and characteristic pollutants	Emission concentration limit			Audited total emissions (ton/year)
		(water: mg/l)	Executed pollutant discharge standards	Total emissions (ton/year)	
子公司名称	主要污染物及特征污染物的名称	排放浓度限值 (水：mg/l) (气：mg/m3)	执行的污染物排放标准	排放总量 (吨/年)	核定的排放总量(吨/年)
Jiangmen Dongjiang Environmental Technology Ltd.	Waste water: COD, ammonia nitrogen	COD: 20 Ammonia nitrogen: 1	Class III Standard Limits for Surface Water Environmental Quality Standards (GB 3838-2002)	COD: 2.290 Ammonia nitrogen: 0.131	COD: 32.940 Ammonia nitrogen: 1.647
江门市东江环保技术有限公司	废水：COD、氨氮	COD：20 氨氮：1	《地表水环境质量标准》(GB 3838-2002) III类标准限值	COD：2.290 氨氮：0.131	COD：32.940 氨氮：1.647

4.1.2. Environmental Engineering and Services

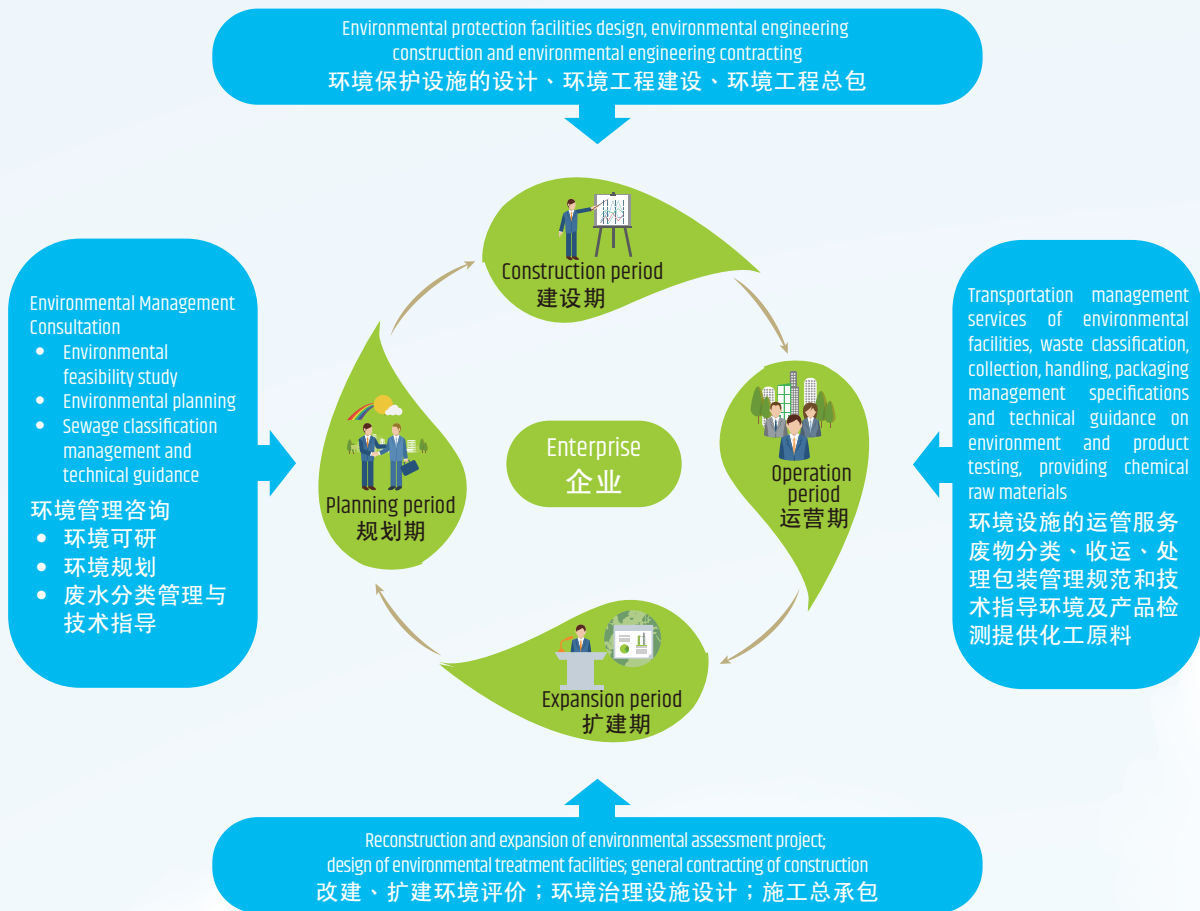
The Company is committed to providing one-stop environmental engineering services, tailor-made environmental services and value-added services for enterprises, including environmental engineering and services. Environmental engineering and services mainly provide technical consultation, design, construction, operation management and environmental testing of environmental protection facilities engineering.

4.1.2. 环保工程及服务

本公司致力提供一站式环保工程服务，为企业度身订造环保服务及增值性业务，包括环境工程及服务。环境工程及服务主要是提供环境保护设施工程的技术咨询、设计、建设、运营管理和环境检测等。



Core Business 核心业务



Dongjiang Environmental Company Limited Engineering Branch

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

东江环保股份有限公司工程服务分公司

东江环保股份有限公司工程服务分公司(下称：工程服务分公司)为不同类型的客户提供环境工程设计、建设和运营管理的一站式服务。





Engineering Branch has obtained the National Environmental Pollution Prevention Engineering Design Grade B Certificate, Wastewater Special Engineering Design Grade B Certificate, Environmental Pollution Control Facilities Operation Qualification Grade A Certificate of Domestic Sewage and Industrial Wastewater and Environmental Protection Facilities Operation Qualification Certificate. 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 service 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 an annual wastewater treatment volume of 7.2 million cubic meters.

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 Class V standard of the Surface Water Environmental Quality Standard as set out in Table 1 and wastewater recycle rate can reach over 60%.

工程服务分公司先后获得国家环境污染防治工程设计乙级证书、废水专项工程设计乙级证书、生活污水和工业废水甲级环境污染治理设施运营资质证书、环境保护设施运营资质证书，并拥有经验丰富的专业化环保工程设计、施工、运营团队，可为客户提供从规划、可研、环评咨询到设计、建设、第三方委托运营的一站式环保工程服务。服务领域涵盖电镀、线路板、印染、造纸、市政与危险废物填埋场渗滤液、工业园区综合废水、市政污水、医药废水等，具有百余项工程服务经验，年废水运营量达720万立方米。

另外，公司还特别重视污水处理新工艺及环保工程建设新技术的研发和引进工作。在承建与运营的工业废水工程项目中，采用公司自主研发的「破络反应器+生物反应器」电镀、线路板废水处理新工艺，或MBST组合处理工艺，可有效去除电镀与线路板废水中的有害污染物，最终排放废水达到《地表水环境质量标准》表1中的V类标准，废水回用率可达到60%以上。



Regarding the municipal sewage treatment projects undertaken by the Company, an internationally advanced three-dimensional ecological treatment technology-FBR (Food-Chain Biological Reactor) is introduced. The ammonia nitrogen removal rate of sewage is over 98% and the total nitrogen removal rate is over 90%. Treated effluent reaches Class IV or higher standard of surface water. Meanwhile, sewage treatment plants can be built into urban gardens.

The Company's construction and operation of the "Upgrade and Renovation Project of Chengnan Wastewater Treatment Plant in Heyuan" successfully adopted the imported FBR (Food-Chain Biological Reactor) wastewater ecological treatment technology. The converted sewage treatment plant is similar to a garden. The secondary biochemical effluent can stably achieve the Class III standard of the Surface Water Environmental Quality Standard (GB3838-2002). With the artificial wetland as a supplementary treatment facility, it fully realizes the purpose of water resources recycling. The project is in line with national policy requirements and is of great significance for improving the regional water environment and protecting Dongjiang raw water.

4.1.3. Municipal waste treatment

The concept that green environment is equivalent to wealth is the key to creating a good living environment and building a beautiful China. The municipal solid waste treatment and disposal business is one of the practical tools to implement the concept. The scope involved ranges from domestic garbage and sewage treatment, municipal sludge, river sludge treatment, kitchen waste treatment to construction waste disposal. Currently, projects that have been established and operating include Shaoyang City Domestic Waste Landfill, Shenzhen Xiaping Solid Waste Landfill (operation management, Xiaping Kitchen Waste Treatment Plant and municipal sewage treatment, etc. The total amount of municipal sewage and municipal solid waste handled by the Group each year are approximately 40 million tons and 2 million tons respectively.

在所承接的市政污水处理项目中，引进国际先进的立体生态处理技术—FBR (Food-Chain Biological Reactor)，污水氨氮去除率大于98%、总氮去除率大于90%，处理出水水质达到地表水IV类标准，甚至更高，同时可将污水处理厂建设成城市花园。

公司建设运营的「河源市市区城南污水处理厂提标升级改造工程服务项目」，成功采用引进的FBR (Food-Chain Biological Reactor)废水生态处理技术，改建后的污水处理厂更像一座花园，二级生化出水能够稳定达到《地表水环境质量标准》(GB3838-2002)中的III类标准，后续人工湿地作为补充处理设施，充分实现水资源再生利用目的。该项目符合国家政策需要，对改善区域水环境，保护东江原水具有重要意义。

4.1.3. 市政废物处理

绿水青山就是金山银山的理念，是创造良好生产生活环境，建设美丽中国的关键。市政固废处理与处置业务正是落实理念的切实措施之一，包括生活垃圾及污水处理、市政污泥及河道淤泥处理、餐厨垃圾处理 and 建筑垃圾处理。目前建设运营的项目有邵阳市生活垃圾卫生填埋场、深圳下坪固体废弃物填埋场、下坪餐厨垃圾处理厂、市政污水处理等，本集团每年合共处理的市政污水约4000万吨、市政固体废物约200万吨。





Dongguan Humen Water Co., Ltd.

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 the extent that allows it 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 processes over 40 million tons of wastewater through its operation of two sewage treatment plants. 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 standard for the second period of "Emission Standards for Pollutants in Urban Sewage Treatment Plants" and "Emission Limits for Water Pollutants in Guangdong Province" (DB44/26-2001).

东莞市虎门绿源水务有限公司

绿源水务取得虎门镇宁洲污水处理厂和海岛污水处理厂特许经营权，特许经营期限均为25年。主要负责收集虎门镇太平水道以东地区的居民生活污水和虎门镇威远岛的生活污水，使污水达到排入某一水体或再次使用的水质要求对其进行净化的过程。为日平均处理超过十万吨污水，服务社区人口约85万人。

绿源水务于两间污水处理厂的运营，合共处理超过4,000万吨污水。全面采用严谨的操作准则，控制日常运营所产生的排放物，两间污水处理厂的排放均合乎《城镇污水厂污染物排放标准》与《广东省水污染物排放限值》(DB44/26-2001)第二时段一级标准的要求。



Core Business

核心业务

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

虎门镇宁洲污水处理厂及海岛污水处理厂总排放量：

Types of pollutants	Names of pollutants	Emissions (tons)	Standard required emissions (tons/year)	Standard requirements
污染物种类	污染物名称	排放量(吨)	标准要求的排放量(吨/年)	依据的标准
Water Pollutants	Chemical oxygen demand (COD)	1,062.24	1,606	The first level standard of the second period of "Emission Limits for Water Pollutants (second type of pollutant) in Guangdong Province" (DB44/26-2001)
水污染物	化学需氧量(COD)			广东省水污染物排放限值(DB44/26-2001)第二类污染物, 第二时段一级标准
Water Pollutants	Ammonia nitrogen (NH ₃ -N)	58.25	321.2	Urban sewage treatment plant pollutant discharge standard (GB 18918-2002) class B emission standard
水污染物	氨氮(NH ₃ -N)			城镇污水厂污染物排放标准(GB 18918-2002)一级B排放标准
Water Pollutants	Suspended substances (SS)	489.34	803	Urban sewage treatment plant pollutant discharge standard (GB 18918-2003) class B emission standard
水污染物	悬浮物(SS)			城镇污水厂污染物排放标准(GB 18918-2003)一级B排放标准





4.1.4. Renewable energy and CDM

With the low-carbon transformation of the world economic structure, the new energy industry is gradually becoming the growing point of the new economy and the new strategic high level of international competition. In recent years, the Company has been committing technology and capital for business development and technological research and development in the field of comprehensive utilization of renewable energy and waste resources and for supporting the business that turns waste into energy.

In recent years, the Group invested a total of RMB250 million in the construction of biomass clean energy projects. The funds were used for the construction of Xiaping landfill gas power generation and CDM projects, Qingdao Xiaoxi West landfill gas power generation and CDM project and Shenzhen Laohukeng landfill gas power generation and CDM project, Hefei Longquanshan domestic waste landfill gas power generation project and CDM project and Nanchang Maiyuan garbage disposal site landfill gas power generation project and CDM project. The total installed capacity of five landfill gas power generation plants reaches 24MW, generating about 170 million kWh electricity per year, equivalent to 1 year electricity consumption of 150,000 households. Meanwhile, it reduces the pollution caused by about 150 billion cubic meters of landfill gas.

Shenzhen Dongjiang Renewable Energy Ltd.

Shenzhen Dongjiang Renewable Energy Ltd. (hereinafter referred to as “Renewable Energy”) mainly operates landfill gas power generation (biogas power generation) projects in Xiaping landfill.

4.1.4. 再生能源及CDM

随著世界经济结构的低碳转型，新能源产业正逐步成为新经济的增长点，也是新一轮国际竞争的战略制高点。本公司近年积极投入技术力量和大量资金，致力于再生能源和废物资源化综合利用领域的业务开拓和技术研发，推动转废为能的业务发展。

近年来，本集团累计投入2.5亿元用于生物质清洁能源项目的建设，先后投资建设下坪垃圾填埋气发电及CDM项目，青岛小涧西垃圾填埋气发电及CDM项目和深圳老虎坑垃圾填埋气发电及CDM项目，合肥市龙泉山生活垃圾填埋气发电工程项目及CDM项目、南昌麦园垃圾处理场填埋气发电项目及CDM项目；五个填埋气电厂的总装机容量达24MW，每年产生电能约1.7亿度，相当于15万户居民1年的用电量，同时可减少约150亿立方米填埋气所造成的污染。

深圳市东江环保再生能源有限公司

深圳市东江环保再生能源有限公司（以下简称「再生能源公司」），主要运营下坪垃圾填埋场填埋气体发电（沼气发电）等项目。



Core Business

核心业务

Renewable Energy's construction and operation of the project "Xiaping using domestic waste to generate landfill gas for power generation" has an installed capacity of 10 MW and an annual generating capacity of over 60 million kWh. This project which turns waste into energy can not only alleviate climate change caused by landfill gas, but also strictly control the emission of air pollutants during the power generation process. All pollutant emissions are in line with the "Air Pollutant Emission Limits" DB44/27-2001. It helped to reduce coal-fired power generation and control atmospheric pollution.

再生能源公司建设及运营的「下坪利用生活垃圾产生填埋气体发电项目」，装机容量10兆瓦，年发电量超6,000万度。此转废为能项目不单减轻填埋气体所造成的气候变化，发电过程中更严格控制大气污染物的排放，各项污染物排放均合乎《大气污染物排放限值》DB44/27-2001，对于减少燃煤发电，治理大气污染作出贡献。



Names of pollutants	Emissions (tons/year)	Emission limits of standard requirements (tons per year)	Monitoring situation
污染物名称	排放量(吨/年)	标准要求的排放限值(吨/年)	监测情况
Sulfur dioxide 二氧化硫	1.657	25.60	Qualified 达标
Nitrogen oxides 氮氧化物	41.434	140.00	Qualified 达标

The Group continues to consolidate the development of the four major business areas, insists on solving the problem of waste in social economic development and strives to improve the quality of people's living environment. At the same time, we will pay close attention to safety, environmental protection, talent training and charity, so that the Group's sustainable development will keep pace with the stakeholders inside and outside the Group and respond to the needs of the new era in society.

本集团不断巩固四大业务范畴的发展，坚持为社会经济发展解决废物出路问题，致力提升人民生活环境质量。同时抓紧安全、环保、人才培养以及公益投放，令本集团的可持续发展与集团内外各利益相关者同步向前，响应社会新时代的需要。





4.2. Technical Achievements Overview

China currently produces a large volume of industrial hazardous waste each year. Some hazardous wastes are improperly used with insufficient disposal capacity and weak technical skills and are regarded as a serious threat for ecological civilization construction. In order to make up for the technological gap in the country's hazardous waste treatment, the Group adheres to the development strategy driven by technological innovation. During the Reporting Period, the Group upgraded to Dongjiang Environmental Research Institute and continuously increased investment in research and development. Annual research and development investment layouts from 2015 to 2017 were RMB116 million and RMB132 million and 164 million respectively, representing 5% of the operating income.

Dongjiang Environmental Research Institute currently has eight research workshops:

1. Technical Cooperation and Support Workshop
2. Organic Solvent and Waste Mineral Oil Research Laboratory
3. Heavy Metal and Industrial Wastewater Resources Research Laboratory
4. Pyrometallurgical Research Laboratory
5. Solid Waste Incineration and Landfill Research Laboratory
6. Water treatment laboratory
7. Technology Strategic Reserve and Project Development Research Laboratory
8. Process equipment research laboratory.

4.2. 技术成就概览

国内目前每年产生大量工业危险废物，部分危险废物利用不畅、处置能力不足、技术力量薄弱，被视为生态文明建设的短板。本集团为弥补国家在危废处理的技术缺口，坚持落实以技术创新为导向的发展战略。报告期内，本集团将原研发中心升级为东江环保研究院，并不断加大研发投入。2015年至2017年研发投入分别是1.16亿元、1.32亿元及1.64亿元，约占当年营业收入的5%。

东江环保研究院目前共设立八个研究工作室：

1. 技术合作与支持工作室
2. 有机溶剂和废矿物油研究室
3. 重金属与工业废液资源化研究室
4. 火法冶金研究室
5. 固体废物焚烧填埋研究室
6. 水处理研究室
7. 技术战略储备及项目拓展研究室
8. 工艺设备研究室。



Core Business

核心业务

In addition to increasing research and development investment, the Group has continuously integrated research and development resources. Through clear functional positioning and improved organizational structure, the Group has gradually established a new technological research and development mechanism and ignited the driving force for technological innovation. During the reporting period, significant achievements have been made:

Recognized Science and Technology Award

During the year, the Group won three technology awards at the municipal level or above, an increase of 2 compared with 2016. In the 15th Shenzhen Enterprise Innovation Record Achievement Conference (“**Shenzhen Enterprise Innovation Record**”), the “New Process for Low Iron Electroplating Grade Copper Sulphate” of the Company obtained the innovation project award of process engineering from Shenzhen Enterprise Innovation Record.

New technology research, development and introduction

The Company independently researched and developed the use of waste sulphuric acid to produce calcium sulfate dihydrate and the use of waste phosphoric acid to produce fertilizer-grade dicalcium phosphate has been successfully industrialized. The feed-grade calcium hydrogen phosphate, high-quality copper hydroxide and copper oxide prepared by the laboratory will gradually achieve industrialized application.

本集团在加大研发投入以外，更不断整合研发资源，通过明确功能定位、改善组织架构，逐步建立技术研发新机制，释放技术创新驱动力，报告期内取得显著成绩：

科技奖项肯定

本集团于本年度获得厅市级以上科技奖项三项，较2016年增加两项。在第十五届深圳企业创新纪录成果发布会上，公司的「低铁电镀级硫酸铜新工艺」获得了深圳企业创新纪录工艺工法创新项目奖。

新技术研发和引进

公司自主研发利用废硫酸生产二水硫酸钙、利用废磷酸生产肥料级磷酸氢钙已成功实现产业化；实验室制备出的饲料级磷酸氢钙、高质量氢氧化铜和氧化铜，也将逐步实现产业化应用。





Patent application

In 2017, the Group had 41 newly authorized patents, including 2 invention patents and 39 utility models. By the end of 2017, the Group had been granted 168 patents, including 38 invention patents and 130 utility models. "A Method for the Preparation of Basic Zinc Chloride" has been granted international patent right, enabling the Group to make breakthroughs in the field of international patents.

专利申请

2017年集团新增授权专利共41项，其中发明专利2项、实用新型39项。截止2017年底，集团已授权专利168项，其中发明专利38项、实用新型130项。《一种碱式氯化锌的制备方法》成功获得国际授权，令本集团在国际专利领域取得突破。

4.3. Annual Awards List

The Group was 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 2017, more recognitions were received from a number of organizations and authorities, including the Guangdong Provincial People's Government and the Shenzhen Municipal People's Government, highlighting the Group's unremitting efforts, pursuit of excellence and achievements in environmental performance.

4.3. 年度奖项一览

本集团先后被评为「国家环保骨干企业」、「国家资源节约与环境保护重大示范工程单位」、「国家首批循环经济试点单位」和「国家高新技术企业」等。2017年更得到多个单位颁发荣誉证书的肯定，包括广东省人民政府，深圳市人民政府，凸显出本集团努力不懈，精益求精的信念，以及在环境表现上的成就。



Certificate name 证书名称	Issuing authority 发证机关
"DJE Dongjiang Environmental" is a famous brand in Shenzhen 「DJE东江环保」为深圳知名品牌	Shenzhen Famous Brand Evaluation Committee 深圳知名品牌评价委员会
Second Prize of Shenzhen Science and Technology Progress Award (Industrialization of bismuth chloride (α-crystalline) produced by waste etching solution without toxicity effect) 深圳市科技进步奖二等奖(利用废蚀刻液生产无毒性影响的碱式氯化铜(α-晶型)的产业化研究)	Shenzhen Municipal People's Government 深圳市人民政府
Guangdong Science and Technology Award Certificate 广东省科学技术奖励证书	Guangdong Provincial People's Government 广东省人民政府



Core Business

核心业务



Certificate name 证书名称	Issuing authority 发证机关
2016 China's solid waste industry segment leading and single-capacity leading enterprises: leading enterprises in the field of hazardous waste 2016年度中国固废行业细分领域领跑及单项能力领跑企业：危险废弃物领域领先企业	E20 Environmental Platform/E20 Research Institute E20 环境平台/E20 研究院
Lu Ying Awards: Industrial Waste Comprehensive Treatment Benchmarking Enterprise 绿英奖：工业废弃物综合处理标杆企业	Lu Ying Awards Selection Committee 绿英奖评选委员会
Ecological Guangdong Construction Excellent Unit 生态广东建设优秀单位	Guangdong Environmental Protection Publicity and Education Center 广东省环境保护宣传教育中心
Guangdong Province Credible Enterprise (2015-2016) 广东省守合同重信用企业(2015-2016)	Shenzhen Municipal Market Supervision Administration 深圳市市场监督管理局
The 16 th Shenzhen Enterprise Innovation Record (Common Technology Development and Application Research of Urban Revolving Economic Development) 第十六届深圳企业创新纪录(城市循环经济发展共性技术开发与应用研究)	Shenzhen Enterprise Innovation Record Validation Committee/ Shenzhen Enterprise Innovation Record Organizing Committee 深圳市企业创新纪录审定委员会/深圳市企业创新纪录组织委员会
The 16 th Shenzhen Enterprise Innovation Record (Product Research and Development Innovation Project Award) 第十六届深圳企业创新纪录(产品研发类创新项目奖)	Shenzhen Enterprise Innovation Record Validation Committee/ Shenzhen Enterprise Innovation Record Organizing Committee 深圳市企业创新纪录审定委员会/深圳市企业创新纪录组织委员会
2017 China's strategic and emerging environmental industry leading enterprise 2017年度中国战略性新兴产业环保产业领军企业	Environmental Protection Alliance of China Strategic and Emerging Industry 中国战略性新兴产业环保联盟



Environmental Management

环境管理



As an environmentally-friendly company, the Group is committed to solving the problem of disposal of waste. It also understands the urgency of different environmental issues, especially climate change. Therefore, the Group adheres to the concept of environmental protection in its ordinary business operation, so that green concept can be implanted into every detail and the environment can be improved in all aspects.

For the green operation of the Company, the Group actively promotes energy conservation and carbon reduction and strives to implement measures to help reduce emissions in each core business to fulfill the corporate responsibility of the Company. Although this report is the first disclosure of the Group's carbon emissions, the scope of the disclosure has also included the headquarters and the major subsidiaries of the four core businesses to faithfully reflect the carbon reduction work of the Group's various businesses and act as a benchmark for the Group to further address climate change in the future.

本集团身为环保企业，在致力于解决废物处理问题外，亦非常了解不同环境议题的迫切性，当中尤以气候变化为甚。因此，本集团在日常运营上都奉行环保理念，让绿色贯彻在当中每一个细节，希望全方位改善环境。

在企业的绿色运营上，本集团积极推动节能减碳，在每项核心业务中都争取落实有助减排的措施，以履行企业共同承担的企业责任。此报告虽为本集团首次披露集团层面的碳排放，披露的范围亦已包括总部办公大楼及四个核心业务的主要子公司，务求如实反映本集团各种不同业务上的减碳工作，并希望作为日后本集团更进一步应对气候变化的基准。



Environmental Management

环境管理

5.1. Low Carbon Production

During the process of achieving the mission of "Make the World No Waste!", the Group has actively improved various treatment routines in order to reduce the level of waste and carbon emissions. As a result, the Group's major subsidiaries continue to implement various low carbon production solutions in terms of alternative materials, equipment improvement, improved production processes, waste recycling and employee management to achieve emission reduction.

5.1. 低碳生产

在实现「让世界没有垃圾」的路途上，本集团积极改善各项处理程序，以求令垃圾和碳排放同步下降。因此，本集团各主要子公司持续在替代材料、设备改进、改善生产过程、废弃物循环再用、员工管理等多方面，实施多个低碳生产方案，达致减排效果。

Low carbon production solutions

低碳生产方案



Energy saving 节能	Water saving 节水
<ul style="list-style-type: none"> • Replace oil-fired boilers with oil and gas dual-purpose boilers, so that production processes can use natural gas to reduce carbon emissions 以油气两用锅炉取代燃油锅炉，令生产过程可利用天然气减少碳排放 • Replace high-energy lamps with energy-saving LED lighting 以节能型LED照明取代高耗能灯具 • Flue waste heat recovery 烟道余热循环再用 • Introducing variable frequency power equipment 引进变频动力装置 • Monitor plant power consumption daily 每日监察厂房用电量 • Implement departmental energy conservation incentive programs to encourage competition among departments for energy efficiency performance 实行部门节能奖励计划，鼓励部门间在节能表现上竞争 	<ul style="list-style-type: none"> • Using recycled wash water 循环使用物料洗涤水 • Replace the inclined plate sedimentation tank with MBR membrane to improve wastewater treatment capacity 用活性污泥膜滤法(MBR)膜替代斜板沉淀池，提高废水处理能力 • Condensate water for recycling and reuse 冷凝水循环再用 • Improve physical and chemical wastewater treatment programs 提升物理性及化学性污水处理程序 • Monitor plant water consumption daily 每日监察厂房用水量 • High ammonia nitrogen wastewater and distilled water reuse 高氨氮废水蒸馏水回用





5.2. Low Carbon Office

In addition to minimizing carbon emissions from waste disposal, the Group also attaches great importance to the involvement of logistics staff in order to identify every emission reduction opportunity, such as the installation of solar photovoltaic power generation equipment in the headquarters office building, making full use of renewable energy and joining the industry that invests in the green energy industry and establishing a set of internal and external low-carbon corporate governance systems to implement green operation.

5.2. 低碳办公

在致力减低废物处理过程中的碳排放以外，本集团同样重视后勤员工的参与，务求发掘每一个减排机会，例如总部办公大楼加装太阳能光伏发电装置，充分利用可再生能源，同时加入投资于绿色能源产业的行业，在建立一套内外兼备的低碳企业治理制度，落实绿色运营。

Low carbon office solutions

低碳办公方案



Energy saving 节约能源

Solar energy generation

太阳能发电

- Solar photovoltaic power generation equipment installed in the headquarters office building. The theoretical power generation per month is 1,065 degrees
总部办公大楼加装太阳能光伏发电装置，每月理论发电量为1,065度

Reduce consumption of resources 减低耗用资源

Save paper

节约用纸

- Receive faxes by email
以电邮接收传真
- Purchasing recycled paper
采购再造纸
- The office administrative system is completely paperless and the programs are processed electronically
办公室行政系统全面无纸化，以电子系统处理各程序
- Install a hand dryer
安装干手机
- Switch to e-card
转用电子贺卡
- Regularly count paper usage and monitor print quantity of users
定期统计用纸量及监察使用者打印数量



Environmental Management

环境管理



Energy saving 节约能源

Improve overall office lighting system design 全面提升办公室照明系统设计

- Install dynamic sensor switch
安装动态感应开关
- Dividing the lighting area
划分照明区域
- Switch to T5 and LED lamps
转用T5及LED灯具
- Increase the number of luminaire cleanings
增加灯具清洁次数

Efficient air conditioning management 高效空调管理

- The temperature is preset to 26 degrees Celsius
温度默认为摄氏26度
- Clean the dust net regularly
定期清洗隔尘网
- Close door and window gaps to reduce air loss
加密门窗缝隙以减少冷气流失
- Adopt central control and monitoring systems or building management systems
采用中央控制及监察系统或楼宇管理系统
- Add reminders to remind employees to turn off air conditioners at the right time
加设提示提醒员工适时关掉冷气

Reduce consumption of resources 减低耗用资源

Careful management of water resources 细致管理水资源

- Speed up the maintenance of dripping faucets
加快维修滴水水龙头
- Reduce water pressure to reduce water flow
调低水压减少水流量
- Regular water pipe leak test
定期进行水管渗漏测试
- Fully use water-saving label sanitary ware
全面采用节水标签之洁具
- Using infrared faucet
采用红外线水龙头

Comprehensive waste reduction 全面减废

- Set up an independent plastic recycling machine to provide incentives to increase recovery rate
设立独立胶樽回收机，提供奖励增加回收率
- Provide classified recycling bins and battery recycling boxes for employees
提供分类回收筒及电池回收箱予员工使用
- Reuse all kinds of stationery supplies
重复使用各类文具用品
- Use rechargeable batteries
使用充电电芯
- Arrange recyclers to recycle computers and electronic equipment
安排回收商回收计算机及电子仪器
- Use reusable toner cartridges and ink cartridges
使用可循环再用的碳粉盒及墨盒
- Avoid using disposable appliances
避免使用一次性用具





Energy saving
节约能源

Reduce consumption of resources
减低耗用资源

Low carbon travel

低碳出行

- Regular inspection of tires for the fleet
为车队定期检查胎气
- Provide low-carbon driving training for drivers
为司机提供低碳驾驶培训
- Implementation of switching off idling engines
落实停车熄火
- Reduce the number of business meetings and replaced by video conferencing
以视频会议减少公干会面
- Integrating transportation route
整合运输路线

Office equipment management

办公室设备管理

- Monthly monitoring of office electricity consumption
每月监察办公室用电量
- Set the automatic standby mode for computers
为计算机设定自动待机模式
- Fully shut down electronic devices during non-office hours
非办公时间全面关闭电子设备
- Integrating servers to reduce energy consumption
整合服务器减少耗能
- Replace single printers or photocopiers with energy-efficient and multifunction printers
以高能源效益的多功能打印机取代单一打印机或复印机



Environmental Management

环境管理

Through the above-mentioned comprehensive carbon reduction strategy and according to the Greenhouse Gas Inventory Protocol and the ISO 14064-1 developed by the World Resources Institute and the World Business Council for Sustainable Development and the International Standards Organization, the Group conducted the first greenhouse gas emission check for the Group's headquarters office building and five key subsidiaries. The greenhouse gas emissions can be divided into direct emissions (Scope 1) and indirect emissions (Scope 2 and Range 3). The greenhouse gas emissions in each range are derived from the Group's fuel consumption, fuel used by vehicles, and refrigeration consumption (Scope 1), electricity consumption during operation (Scope 2), domestic water and waste landfill, etc. (Scope 3).

透过上述全面的减碳策略，本集团根据由世界资源研究所与世界可持续发展工商理事会开发的《温室气体盘查议定书》及国际标准化组织订定的ISO14064-1，为本集团总部办公楼及五家重点子公司进行首次温室气体排放盘查。本集团的温室气体排放可分为直接排放(范围1)及间接排放(范围2及范围3)。各范围的温室气体排放分别来自本集团燃料消耗、车辆使用之燃料、制冷制用量(范围1)、在营运时的电力消耗(范围2)、生活用水及废物堆填等(范围3)。





Environmental performance 环境表现	unit 单位	2017 二零一七年度
Greenhouse gas emissions 温室气体排放量		
Direct greenhouse gas emissions (Scope 1) 直接温室气体排放(范围1)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	941.89
Direct greenhouse gas reduction (Scope 1) 直接温室气体减除(范围1)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	11.02
Indirect greenhouse gas emissions (Scope 2) 间接温室气体排放(范围2)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	19,485.79
Other indirect greenhouse gas emissions (Scope 3) 其他间接温室气体排放(范围3)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	11.52
Total greenhouse gas emissions (Scope 1, 2 & 3) 温室气体排放总量(范围1, 2 & 3)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	20,428.18
Intensity of Greenhouse gas emission 温室气体排放强度		
Floor area per square meter (category 1, 2 & 3) 每平方米楼面面积(范围1, 2 & 3)	Metric tons of carbon dioxide equivalent/Square meter of floor area 公吨二氧化碳当量/平方米楼面 面积	0.33
Each employee (Category 1, 2 & 3) 每名员工(范围1, 2 & 3)	Metric tons of carbon dioxide equivalent/employee 公吨二氧化碳当量/员工	16.98

For other key performance of sustainable development, please refer to the Key Performance Summary of Sustainable Development.

其他可持续发展关键绩效，可参考可持续发展关键绩效摘要。



Standard Operation 规范运营

Hazardous wastes, containing one or more hazardous properties (such as corrosive, toxic, flammable, reactive and infectious), or solid and liquid wastes (including industrial and medical wastes) may harm the environment or human bodies. As a group with its main business in hazardous waste management, safety management is the top priority for the Group's management system to ensure adequate protection for internal employees and different personnel involved in the process. We aim at establishing a comprehensive EHS management system to achieve the goal of zero accident.

Since the establishment of the Group, the Group has been in compliance with national laws and regulations and the standard requirements, such as, "Occupational Health and Safety Management System Regulations" (GB/T28001-2001), "Environmental Management System Requirements and User Guidelines" (GB/T24001-2004) and "Quality Management System Requirements" (GB/T19001-2008). The Group examined the requirements for safety management and environmental protection and formulated the "Safety Monitoring and Measurement Control Program" (DJ-EHSP-17), "Environmental Protection Management System" and "File Control Program" (DJ-EHSP-05) and established a safety environment management committee. The Group also establish 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 the department 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.

危险废物，即具有一种或多种危险特性(如具腐蚀性、有毒、可燃、具反应性及具传染性)，或可能损害环境或人体的固体及液体废物(包括工业及医疗废物)。作为一家以危废处理为核心业务的集团，安全管理乃集团管理体系的重中之重，确保对内部员工，以及过程中可能涉及的不同人员都提供完善的保障，建立一套以零意外为目标的全面EHS管理制度。

本集团自成立以来，根据国家法律、法规和《职业健康安全管理体系规范》(GB/T28001-2001)、《环境管理体系要求及使用指南》(GB/T24001-2004)及《质量管理体系要求》(GB/T19001-2008)等标准要求：结合安全管理和环境保护实际，制定了《安环监测和测量控制程序》(DJ-EHSP-17)、《环境保护管理制度》和《文件控制程序》(DJ-EHSP-05)等制度，成立安全环境管理委员会，建立由基地领导、安全环境管理部门、部门负责人和部门安环员组成的安全管理和环境保护体系。各基地总经理作为基地安全环境管理总负责人，全面负责基地的安全管理和环境保护工作，监督检查基地的安全和环保状况。





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 actively explores new processes and technologies to effectively remove and reduce hazardous gases. Currently, flue gas treatment facilities of the incineration rotary kiln of each major hazardous waste incineration unit mainly adopts the processes of “waste heat boiler (SNCR denitration) + semi-dry deacidification (quick deacidification tower) + dry reactor (sodium baking soda powder and activated carbon injection) + Air box pulse bag type dust collector + pre-cooler + alkali washing tower + flue gas heating + chimney high-altitude discharge” before qualified discharge. During the Reporting Period, the Group’s pollution prevention facilities were operating normally.

本集团严格按照项目环评报告书及批复的有关要求，建设废水、废气等防治污染设施。在废水治理方面，对各工艺环节中产生的废水进行分类深度处理后进入生化处理系统，并经膜处理达标后外排或进入市政污水厂，实现稳定达标排放。

在焚烧烟气治理方面，本集团积极探索新工艺、新技术，有效地去除和减少有害气体。目前各主要危险废物焚烧单位的焚烧回转窑烟气处理设施主要采用「余热锅炉(SNCR脱硝)+半干法脱酸(急冷脱酸塔)+干式反应器(小苏打粉、活性炭喷射)+气箱脉冲袋式除尘器+预冷器+碱洗塔+烟气加热+烟囱高空排放」工艺处理后达标排放。在报告期间，本集团防治污染设施运行基本正常。



Standard Operation

规范运营

The Group also strictly regulates various data usage processes to ensure the security of information and formulates the “Information Exchange Management Program” which stipulates the policies of collection of customer information, the purposes of using customer information, the restrictions of disclosure of customer information, methods of preservation of customer information and the arrangement of internal communications to prevent information disclosure for comprehensive protection of customer information and privacy.

6.1. EHS “Three Simultaneous” Management

In order to ensure compliance with the national laws and regulations that are being refined from time to time, including the “Law of the People’s Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes”, “Control Standards for the Storage of Hazardous Wastes (GB18597.2001)”, “Regulations on the Reporting and Registration of Emission Pollutants”, “Safety Management Regulations for Dangerous Chemicals” and “Occupational Health and Safety Management System Requirements”, etc., the Group is resolved to increase investment in the Environmental, Health and Safety (EHS) department. Moreover, building on the ISO9001:2008, ISO14001:2004 and OHSAS18001 management system certification, the Group seeks to further improve the management system in order to significantly improve the management level of waste treatment facilities and reach international leading levels.

The EHS “Three Simultaneous” management system established by the Group for all new projects implies that the environmental protection, occupational health and safety facilities for any construction project must comply with national regulations and must be designed, constructed and produced and used simultaneously with the main construction process of the project to ensure that after the construction has been completed and the project put into production, it will satisfy the national environmental protection, occupational health and safety standards. The projects are also coordinated by various departments to ensure the safety and health of employees in the production process and prevent environmental pollution.

本集团亦严格规范管理各类数据使用流程，保障信息安全，制定《信息交流管理程序》，规定各部门关于客户资料的收集、使用客户资料的目的、披露客户资料的限制，及保存客户资料的方法，以至内部通讯的安排，防止信息泄露，全面保障客户资料及私隐。

6.1. EHS「三同时」管理

为确保能符合不断完善的国家法律法规，包括《中华人民共和国固体废物污染环境防治法》、《危险废物贮存污染控制标准(GB18597.2001)》、《排放污染物申报登记管理规定》、《危险化学品安全管理条例》、《职业健康安全管理体系要求》等，本集团坚持加大在环境、职业健康及安全（Environmental, Health and Safety，缩写EHS）部门的投放，同时在ISO9001:2008、ISO14001:2004及OHSAS18001的管理体系认证上，进一步完善管理制度，以求大幅提升废物处理设施的管理水平，务求达至国际领先水平。

本集团为所有新建项目设立的EHS「三同时」管理体系，指建设项目的环保、职业健康、安全设施必须符合国家规定，必须与主体工程同时设计、同时施工、同时投入生产和使用，以确保建设项目竣工投产后，符合国家规定的环境保护、职业健康和安全标准规范，并由多个部门共同配合，以保障员工在生产过程中的安全与健康，防止环境污染。





Three simultaneous processes of Safety
安全三同时流程

File record
文件记录

Coordination departments
配合部门

<p>New, modified and expanded projects 新、改、扩建项目</p>	<p>Safety pre-evaluation report</p>	<p>Technical department, business units where the construction units are located and EHS department</p>
<p>Pre-evaluation of safety 安全预评价</p>	<p>安全预评价报告</p>	<p>技术部、建设单位所在事业部、EHS部</p>
<p>Safety facility design 安全设施设计</p>	<p>Safety design 安全设计专篇</p>	<p>EHS department EHS部</p>
<p>Review 审核</p> <p>Rectification if unqualified 不合格整改</p>	<p>The construction projects for the production and storage of dangerous chemicals need to be submitted to the Safety Supervision Bureau 生产、贮存危险化学品的建设项目需要报备安监局</p>	<p>EHS Department, Technology Department, Business Department, Project Management Department EHS部、技术部、事业部、项目管理部门</p>
<p>Safety facility construction 安全设施施工</p>	<p>Safety acceptance evaluation report 安全验收评价报告</p>	<p>EHS Department, Technology Department, Business Department EHS部、技术部、事业部</p>
<p>Trial 试运行</p>	<p>Acceptance and approval of three simultaneous of safety facilities 安全设施三同时验收批复</p>	<p>Project Management Department, EHS Department, Business Department 项目管理部门、EHS部、事业部</p>
<p>Safety acceptance evaluation 安全验收评价</p>	<p>Safety status/special evaluation approval comments 安全现状/专项评价批复意见</p>	<p>Business Department, EHS Department 事业部、EHS部</p>
<p>Safety status/ special evaluation 安全现状/专项评价</p>		



Standard Operation

规范运营

During the Reporting Period, the Group strictly implemented the “Three Simultaneous” environmental protection system for 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.

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. In 2017, the Group paid sewage charges in full and on time as required and there was no outstanding payment.

6.2. Annual Inspection – Objective

In addition to the EHS three simultaneous management system, the Group also proactively conducts a hazard source identification survey, environmental factor identification and evaluation and confirming control measures for existing projects. 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 a list of important environmental factors and major hazard sources.

报告期内，本集团新建项目严格执行环保「三同时」制度、危险废物经营许可证制度、危险废物转移联单管理办法。各危险废物经营单位均取得当地省环境保护厅颁发的《危险废物经营许可证》，并按核准要求开展经营活动。

本集团严格执行排污许可证制度，按规定领取并更换排污许可证，按时排污申报和环境信息公开。2017年本集团按要求及时足额缴纳排污费，无欠缴拒缴情况。

6.2. 一年一检一目标

在EHS三同时管理体系以外，本集团每年更主动为现有项目进行一次危险源辨识普查、环境因素识别与评价，以及确认控制措施，为求及时更新重要环境因素清单和重大危险源清单，各部门将根据重要环境因素清单和重大危险源清单，制定管理方案和运行管理措施。





After completion of the survey, at the end of the year, the Group will formulate environmental and occupational health and safety objectives and targets for the next year. The objectives are measurable, operational and 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. The Group will strictly review environmental and occupational health and safety objectives and targets and prepare an “Environmental Safety and Health Objective, Indicator and Management Plan” to alleviate environmental impact and occupational health and safety risks. In the event of an emergency or incident, each unit will carry out control measures in accordance with the “Emergency Response Management Program”.

The Group will regularly check and evaluate 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.

在完成普查后，本集团于年底制定下一年度的环境和职业健康安全目标及指标。目标是可测量、可操作的，并符合环境和职业健康安全方针的要求，包括预防污染、预防伤害和疾病、遵守法律法规和其他要求，以及持续改进的承诺。本集团将严格审批环境和职业健康安全目标、指标并形成文件，列为《环境安全健康目标、指标和管理方案》，以确立减轻环境影响和降低职业健康安全风险。一旦出现突发事件和事故，各单位将按《应急响应管理程序》进行控制。

本集团会定期对各部门目标、指标和管理方案的执行情况进行检查和考核，对所发现的问题及时采取措施，或进行必要的调整，以确保目标和管理方案按计划进度实施完成，并将考核结果上报纪录在案，让安全贯彻整个业务。



6.3. Supplier Management

The Group attaches great importance to supplier management and has formulated the “Procurement Management System”, “Centralized Procurement Management Regulations” and “Contract Evaluation Management Program” to ensure the safety level of business operation. In order to strengthen the management of procurement operation scattered throughout the country, prevent various drawbacks in the procurement process and improve the quality and economic benefits of the procurement business, the Group is establishing a unified supplier list to fully record the suppliers’ quality and evaluation reports and stipulate the procedures of approval for the procurement. It is hoped that by developing a supplier social responsibility assessment, the Group will influence and enhance suppliers’ responsibility and awareness and achieve a sustainable supply chain with suppliers.

The Group also has strict intellectual property rights guidelines on the codes of practice for selecting external suppliers. In the process of cooperation with the suppliers, the Group will ensure that all technical and development achievements submitted by suppliers will not infringe any legal patents, trademarks, copyrights and other legal rights of any third party. If the suppliers commit a violation, we will consider suspending the cooperation with the suppliers.

6.3. 供应商管理

本集团十分重视供应商管理，已制定《采购管理制度》、《集中采购管理规定》、《合同评审管理程序》，以确保业务运营的安全水平。为加强分散于在全国各地的采购业务管理工作，预防采购过程中的各种弊端，提高采购业务的质量和经济效益。本集团正建立统一的供货商名录，全面纪录供货商的素质、供货纪录及评估报告，并列明采购的审批程序。希望透过展开供应商社会责任评估，影响和提升供应商责任及意识，与供应商共同实现可持续供应链。

本集团对于甄选外部供应商的营运守则，亦有严格知识产权规范。供应商在合作过程中需保证所提交的一切技术及开发成果，均不得侵犯任何第三方的合法专利权、商标权、著作权等一切合法权利。如供应商出现违规情况，我们将会考虑暂停合作。





For new process technologies, complex process technologies or large-scale project construction projects, relevant departments or technical departments shall provide one to two new suppliers that fulfill the technical process requirements. The procurement department shall organize inspection and review as required. For large-scale procurement projects, we will conduct on-site inspection of newly developed suppliers and more than two relevant departments including procurement, technology, process, equipment, workshop and finance will participate together. The Group also requires the procurement department to regularly collect and evaluate feedback from the user department, process technology department, quality control department, etc. for suppliers on the delivery, quality, after-sales service, emergency coordination and other aspects which will be recorded for information. 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., we will also incorporate governance of the Group, labor conditions, ethics and environmental standards into the assessment, so that suppliers and the Group are simultaneously concentric to contribute to the construction of ecological civilization.

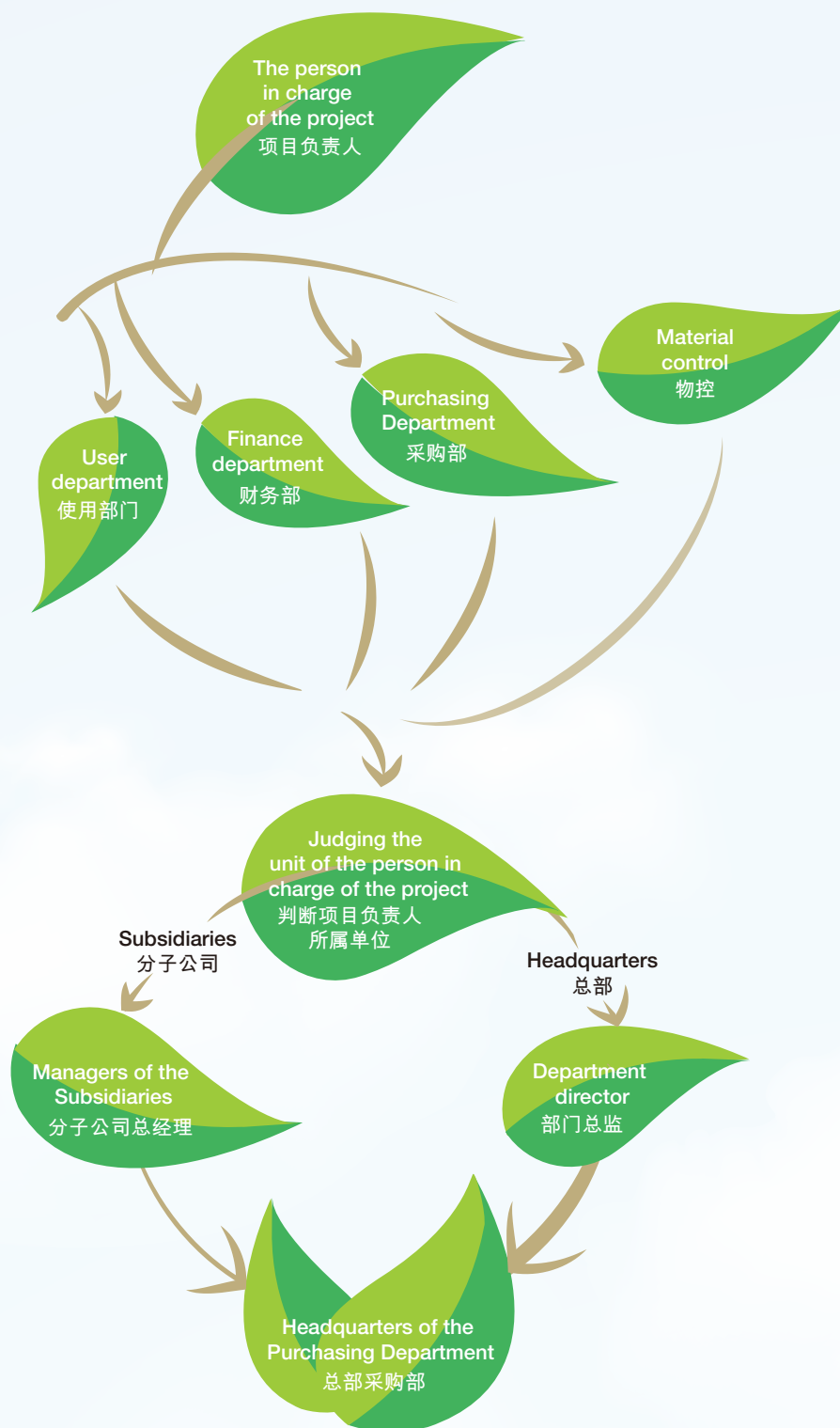
对于新工艺技术、工艺技术复杂或大型工程建设项目等，相关部门或技术部门需提供一至两家满足技术工艺要求的新供应商，由采购部门按要求组织进行考察、评审。对于大宗采购项目，我们将对新开发的供应商进行现场考察，并由采购、技术、工艺、设备、车间、财务等二个以上相关部门共同参与。本集团更要求采购部门定期收集使用部门、工艺技术部门、质量管理部门等对供应商在交期、质量、售后服务、应急配合等环节的评价反馈，形成书面资料并保存。在供应商甄选过程中，我们除了评估潜在供应商提供的产品及服务质量、商誉、成本等因素外，我们更会把集团治理、劳动状况、道德及环保标准等纳入考核之内，希望促成供应商与本集团同步同心，为生态文明建设作出贡献。



Standard Operation 规范运营

Flow chart of procurement

采购流程图





6.4. Safety Training

The Group implements the “Woodpecker Training Camp” series of EHS systems to train more management talents for the Group’s safety operation. In order to perform properly the safety and environmental management and supervision duties, standardize the safety and environmental management work and improve the professional level of safety management, the Human Resources Department of the Headquarters and the EHS Department jointly organized the “Woodpecker Training Camp”. Its participants come from the safety and environmental system of the subsidiaries. Comprising of 36 official students and lasting for 5 phases with 2 days in each phase, it was formally started on 1 September 2016 and successfully completed in November 2017. It was responsible for improving the safety management standards of different subsidiaries.

Under the strict management system, the Group is pleased to announce the fulfillment of the zero accident target during the Reporting Period. It also means zero number of major casualties and major environmental pollution incidents and the safety of employees and residents is ensured.

6.5. Information Security

We also strictly abide by intellectual property laws and regulations to protect the intellectual property rights of the Group and third parties. We also formulate and implement the “Information System Network Security Management Regulations”. The operation and maintenance department is responsible for the installation and setup of the employee’s desktop system to ensure that the employee’s desktop computer system is installed safely and genuine computer software does not illegally use third-party intellectual property rights.

6.4. 安全培训

本集团开展实施EHS系统「啄木鸟训练营」系列课程，为集团的安全运营训练出更多管理人才。为了妥善地履行安环管理和监管职责，规范安环管理工作，提升安全管理专业水平，总部人力资源部与EHS部联合策划「啄木鸟训练营」，其参训人员来自各地子公司安环系统，正式学员36名，自2016年9月1日正式开班，持续5期，每期2天，于2017年11月圆满结业，负责提升不同子公司的安全管理水平。

在严紧的管理制度下，本集团欣然公布报告期内零意外目标顺利完成，包括重大伤亡事故为零，重大环境污染事故为零，令员工及居民的安全得到全面的保障。

6.5. 信息安全

根据国家相关法律法规我们制定并实施《IT安全管理规定》，由信息管理部门提供信息安全运维保障服务，从信息化项目建设、系统服务支持、数据中心运维管理以及员工桌面系统的安装和设置等各业务环节都采取了有效的安全防范措施，分层、分类、分级的进行保护和管理；我们亦严格遵守知识产权相关法律法规，以维护集团和第三方的知识产权；服务器及桌面终端的操作系统、应用服务软件的安装也有严格的管控，禁止非法使用第三方的知识产权。



Talent Development

人才发展

The Group is convinced that human resources management is the driving force for business development. Therefore, pursuant to the Company's business objectives, the Group adjusts the demand for talents according to strategic direction and persist in maintaining a stable talent pool and advancing human resources management. The Group also concentrates on supporting the development of hazardous waste business and responds to the challenges of fostering ecological civilization.

7.1. Aggregation of Good Employees

With the rapid development of the national economy, the huge demand for hazardous waste disposal services and the fierce competition of talents, the Group is determined to create a fair, diversified and harmonious working environment and a non-discriminatory platform to create the best environment for attracting talents from the society.

The Group strictly abides by relevant labor laws and regulations, such as the "State Labor Law", the "Labor Contract Law", the "Law on the Protection of Minors" and the "Prohibition of the Use of Child Labor". We have formulated the "Employee Management System" which sets out the recruitment principles, conditions and approval procedures to ensure standardization of the recruitment work of the Group. Through equal and unified selection criteria and recruitment procedures, written examinations, interviews, professional background checks and approvals to assess the qualifications, work experience and skills, etc. of job seekers. The Group is committed to equal job opportunities regardless of gender, age, nationality and ethnicity.

本集团深信人力资源管理是业务发展的原动力。因此，本集团围绕经营目标，按公司战略方向调整人才的需求，坚持做好人才稳定和人力资源管理工作，集中支持危废业务的发展，响应生态文明建设的挑战。

7.1. 汇聚好员工

在国家经济高速发展，危废处理业务需求庞大，人才竞争激烈的情况下，本集团透过多元渠道积极招募人才，并锐意打造一个公平、多元化、共融的工作环境，非歧视的职位发展平台，为吸纳社会人才创造最理想的环境。

本集团严格遵守国家《劳动法》、《劳动合同法》、《未成年人保护法》、《禁止使用童工规定》等相关劳动法律法规。制定了《员工管理制度》，定明招聘原则、条件、审批程序，确保本集团招聘工作规范化。通过平等及统一的甄选准则及招聘程序，通过笔试、面试、职业背景调查及审批等程序，全面考核求职人的学历、工作经验、技能等条件，并承诺不论其性别、年龄、国籍和种族均享有平等的工作机会。





During the recruitment process, the Group strictly abides by the State's laws and regulations on employment and formulates relevant policies to prevent child labor or forced labor. Pursuant to the recruitment requirements of the "Employee Management System", for those who are under the age of 16, they will not be employed by the Group. The Group will examine in detail the actual age of the applicants to ensure that employment of child labor will be eliminated.

The Group strictly implements the labor contract system to ensure that all employees have a clear understanding of their work and sign contracts with equality and voluntariness to prohibit employment discrimination and forced labor. The Group also 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 the right to terminate the 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.

In order to prevent bribery, extortion, fraud and money laundering and to ensure that employees fully comply with national regulations, the Group has also formulated the "Employee Handbook". If the laborer enters into or changes the labor contract in violation of the true meanings by means of fraud or coercion or causing damage to others, the Group may immediately terminate the labor contract. According to the "Management Measures for Reward and Punishment", if there are acts such as bribery, extortion and fraud, etc., the corresponding punishment will be given according to the circumstances of the perpetrator's behavior or the labor contract will be terminated.

在招聘过程中，本集团严格遵守国家关于用工的法律法规，并制定相关的防止童工或强制劳工的政策。根据《员工管理制度》的招聘要求，未满十六周岁者，不得录用为本集团员工。本集团会详细审查应征者的实际年龄，确保杜绝雇佣童工。

本集团严格实行劳动合同制管理，确保所有员工在清楚了解其工作内容及平等自愿的情况下签订合同，禁止就业歧视和强迫劳动，并对任何形式的歧视或骚扰行为采取零容忍的态度，致力建构工作间良好的工作氛围，并明确保障员工拥有自由解除劳动契约的权利。在报告期内，本集团并没有发生任何有关歧视、聘用童工或强制劳工的违规行为。

为防止贿赂、勒索、欺诈及洗黑钱的行为，确保员工全面遵守国家法规，本集团亦已制定《员工手册》，制度规定如存在劳动者以欺诈、胁迫的手段或者乘人之危情况，致使用人单位在违背真实意思的情况下订立或者变更劳动合同的，本集团可立即解除劳动合同。根据《奖惩管理办法》，如有贿赂、勒索、欺诈等行为，依据行为人行为情节轻重给予相应处分，或解除劳动合同。



Talent Development

人才发展

7.2. To Serve Employees Better

The Group aims to achieve greater employee development through the implementation of employee performance management and actively helps employees to better understand their responsibilities and goals, assists in shaping professional behavior, strengthens their sense of responsibility. The Company encourages employees to plan their own career, achieve personal growth and promote the realization of the Company's objectives.

The Group has formulated the "Performance Management System" to reflect the principles of equality, fairness, the principle of openness, objective principles, performance improvement principles and mandatory distribution principles. 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 employee performance appraisal is the basis for human resources management. The Group understands the strengths and shortcomings of employees at work and therefore provides training for employees to provide a direction for self-improvement of employees. It also provides a basis for salary adjustment and promotion, which is an important precondition and basis for the work deployment decisions of employees to realize rational distribution of the Group's human resources.

7.2. 待员工更好

本集团为成就员工更大的发展，鼓励员工围绕集团经营目标，按公司战略方向，尽展所长，在公司营造绩效导向的氛围，努力为员工提供一个公平的绩效管理平台。通过推行员工绩效管理，充分调动员工的积极性和创造性，积极帮助员工加深理解自己的职责和目标，协助塑造职业行为，加强责任意识，鼓励员工规划好自身的职业生涯，实现个人的自我发展，促进公司各项目标的实现。

本集团制定了《绩效管理制度》，体现了公正、公平、公开原则，客观原则，业绩改善原则，强制分布原则。员工绩效考核以年度、半年、月度/季度为考核周期，从工作业绩、学习与发展和工作态度行为，三个不同角度对员工进行全面的考核，客观全面地反映出被考核者的工作绩效，体现了考核的公正性。

员工绩效考核结果，是改善人力资源管理的依据之一。了解员工在工作上的优势与不足，一方面可为员工提供培训，为员工自我提升提供方向，一方面亦为员工个人奖金分配、调薪及晋升提供依据，同时也是员工工作岗位调配决策的重要前提和依据，以实现集团人力资源合理分配。





The Group attaches great importance to two-way communication and analysis of assessment results to promote employees' self-improvement. In particular, managers are required to go deep into the grassroots level to strengthen communication with cadres and employees, so that human resources management can truly "Adhere to Strategy and Service Management" and use "Product Thinking and Customer Thinking" to improve organizational capabilities, indicating the simultaneous development of the Group and employees. Therefore, in terms of the results of the assessment program, the Group requires departments and individuals to formulate performance improvement plans based on the assessment results and conducts performance interviews with employees to understand the working situation, analyze research, and plan future work so that employees can understand the evaluation of their work and clarify the direction of improvement.

After assessing the performance of human resources management in recent years, combined with the new management requirements, the work of the Human Resources Department during the Reporting Period focused on the internal level of the Group, the revision of salary standards, technical talent management mechanism and the establishment of key personnel promotion channels. On the construction of employer brands, the department comprehensively enhanced the Group's ability to retain talents.

本集团重视双向沟通及考核结果分析，以促进员工不断自我增值。在员工绩效管理过程中，特别要求管理人员深入基层，加强和干部、员工的沟通，使人力资源管理工作真正能够「围绕战略，服务经营」，用「产品思维和客户思维」方式去提升组织能力，帮助集团与员工同步发展。因此，在考核方案结果方面，本集团要求部门和个人，根据考核结果分别制定绩效改进计划，并和员工进行绩效面谈，了解工作情况，分析研究，对未来工作提出希望，使员工了解其工作的评价，明确改进的方向。

根据近年来人力资源管理取得的成效，结合新的管理要求，人力资源部于报告期内的的工作聚焦在集团内部职级的梳理，以及薪酬标准的修订、技术人才管理机制建立、骨干员工晋升通道的建立，以及雇主品牌的建设上，以全面提升集团保留人才的能力。



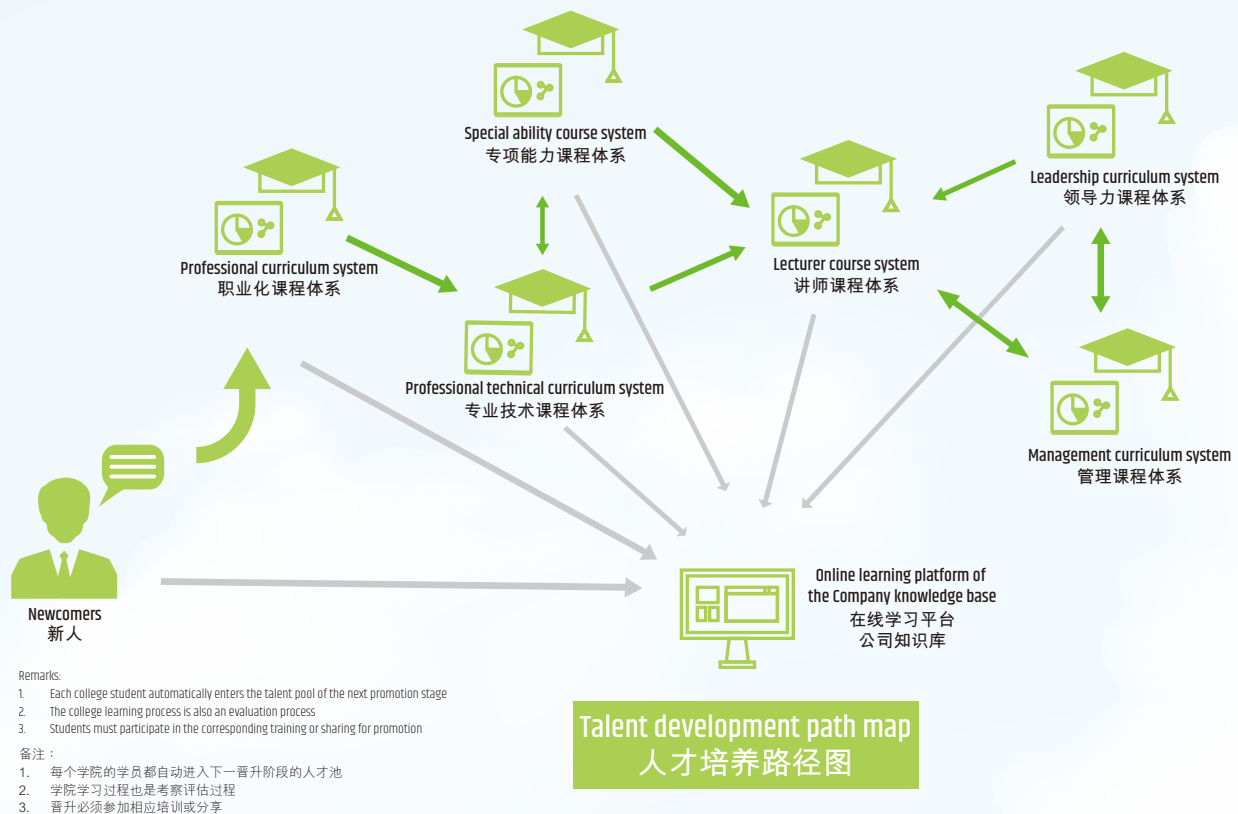
Talent Development 人才发展

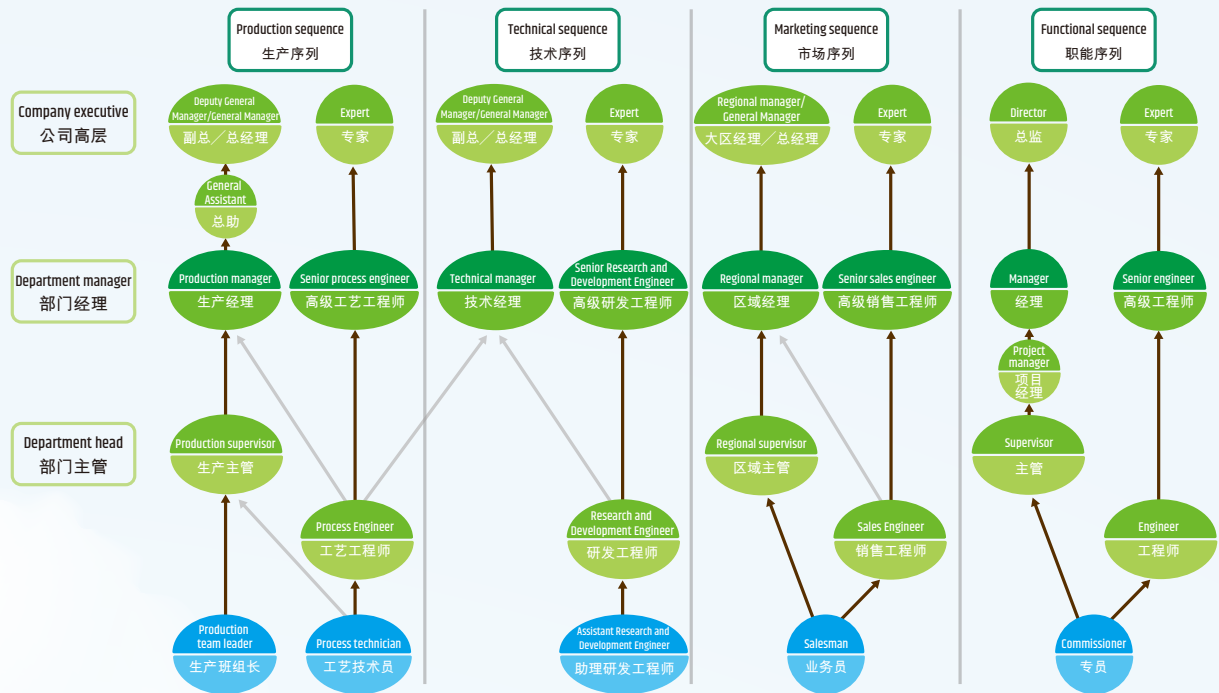
7.3. Nurture the Best Employees

The Group not only creates good economic values and strive to undertake social responsibilities, it also insists on educating employees in the workplace and is committed to acting as a cradle of talent cultivation. We focus on providing employees with a favorable environment for the personal growth of employees and paving a bright path for career development, thereby enabling every employee to obtain an opportunity to improve and showcase their strengths in the Group and contribute to the construction of ecological civilization.

7.3. 成就最好的员工

本集团不仅创造良好经济价值和勇于承担社会责任，也坚持用工作育人，致力成为人才培育的摇篮。我们注重为员工提供良好的成长环境，创造员工发展的阶梯，每位员工都有机会在本集团获得培养并发挥出自己的特长，为投身生态文明的建设工作出一份力。





In 2017, the training work took business strategies as the main axis. It is oriented to problem solving and directly supports business development. The concept of knowledge management has been initially implemented. The human resources department of the headquarters joined hands with the business department to organize special talent training, which not only made the training content more relevant to the business, it also enhanced the training, organization and operation capabilities of the business department and built the foundation for the training system of each business department. During the Reporting Period, the capital invested by the Group's headquarters in direct training exceeded RMB1.5 million.

2017年，培训工作以业务战略为主轴，以问题解决为导向，直接支持业务发展，知识管理的概念得到初步落实；总部人力资源部联合业务部门举办专项人才培养，不仅令培训内容更贴近业务，也提升了业务部门的培训组织运营能力，为各业务部门培训体系构建基础。报告期内，本集团总部投入直接培训的资金超过150万元人民币。



Talent Development 人才发展

7.3.1. Dragon in Dongjiang

In order to enhance the quality of management of the Group, we continue to launch the “Dragon in Dongjiang” project to provide leadership training projects.

In order to strengthen the strategic understanding and execution of the core business of the Group, we launched the “Tenglong Phase 2” middle management cadre training camp, aiming to transform the management concept of the middle cadres, improve management methods, enhance leadership and execution and establish a talent echelon. There are a total of 46 participants in the “Tenglong Phase 2” which started from 19 August 2016 and was held once a month for a duration of 2 days. The project carried out 6 intensive trainings and was successfully completed in September 2017.

7.3.1. 龙腾东江

为了加强本集团管理的素质，我们持续开办「龙腾东江」计划，提供领导力训练项目。

为加强集团上下核心业务的战略理解及执行力，我们举办了「腾龙2期」中层管理干部训练营，旨在转变中层干部管理观念、改善管理方法，提升领导力与执行力，建立人才梯队。「腾龙2期」参加人员共有46名，自2016年8月19日开班，每月集中一次，每次2天，计划进行6次集中培训，并于2017年9月圆满结业。



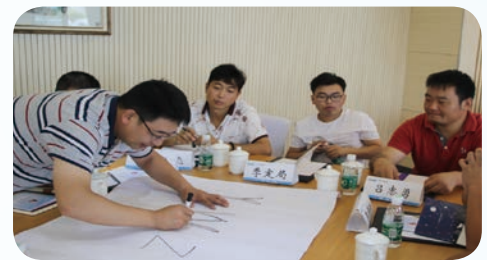


7.3.2. Starfire Training Camp

The Group also launched the “Incineration Operation System Training - Starfire Training Camp Phase I” for the first time. With the rapid development of the hazardous waste incineration disposal business, the Group has actively responded to the gap between the incineration-related management personnel and technical talents. In order to train a group of production and operation management personnel who are familiar with the legal regulations of the industry and have a systematic and global view of the incineration business, under the unified planning of the headquarters, the East China Business Department launched the first phase of the incineration operation system training, i.e. Starfire Training Camp. The project lasted for 3 months and started in September 2017 with more than 30 participants. It was successfully completed in December 2017.

7.3.2. 星火训练营

本集团亦首次开展「焚烧操作体系培训-星火训练营一期」。随著危废焚烧无害化处置业务的迅速发展，为培养一批熟悉行业法律规范、具有系统性、全局观的焚烧业务生产运营管理人才，本集团主动响应焚烧相关管理人员及技术人才不足问题的缺口。在总部统一规划下，为培养一批熟悉行业法律规范、具有系统性、全局观的焚烧业务生产运营管理人才，在总部统一规划下，华东事业部启动了首期焚烧操作体系培训-星火训练营一期。该项目历时3个月，自2017年9月开班，参训人员超过30人，并于2017年12月圆满结业。



Talent Development

人才发展

7.3.3. Bee Soldiers and Material Control Class

To cope with business requirements and support the implementation of the Company's strategies, various short courses are organized such as the "Bee Soldiers and Material Control Class" organized by The Guangdong Business Department. With more than 40 participants, it focused on improving warehouse management and materials turnover and strengthening employees' ability of hazardous waste characteristics and material control management.



In addition to salary adjustment and promotion opportunities, the Group also organizes different employee activities throughout the year to increase the sense of belonging of employees, so that employees can participate in the construction of corporate culture in addition to working.

7.3.3. 蜂兵物控班

为响应公司业务需求，支持公司战略落地，不定期开展各类短训班，例如：广东事业部举办的「蜂兵物控班」。该项目参训人员超过40人，重点提升仓储管理及物资周转率，加强员工对于危废特性及物控管理能力。



本集团在培训、薪酬调整及晋升机会以外，更于全年举办不同员工活动，增加员工的归属感，令员工在业务工作之余，亦参与企业文化的建设。





7.3.4. Chiyan Training Camp

In order to continuously enhance the professional capabilities of administration and human resources management and capabilities of comprehensive management, the Group also provides executive and human resources system training courses, i.e. “Chiyan Training Camp” series.

“Chiyan Training Camp” had 42 participants. The camp started on 4 March 2016 with 8 intensive training sessions each with a duration of 2 days. It was successfully completed in June 2017. The course aims to train up students’ professional capabilities of administration and human resources management and capabilities of comprehensive management. Through the training courses, the system and requirements for the cultural management, administrative management and human resources management of the subsidiaries will be introduced to the headquarters in a rapid, standardized and systematic manner to enhance the overall administrative human resources management level of the Company. In this way, the administrative human resources personnel will further learn about the Company’s business and improve management and service standards. We will expend effort in career planning and guidance of administrative and human resources management personnel, train general management talents and establish an echelon of administrative human resources management professionals of the Company.

7.3.4. 赤雁训练营

为持续提升行政和人力资源管理专业能力和综合管理能力，本集团亦为员工提供行政及人力资源系统培训课程—「赤雁训练营」系列课程。

「赤雁训练营」参训人员42名，2016年3月4日开班，集中训练8次，每次2天，于2017年6月圆满结业。课程旨在培养学员行政和人力资源管理专业能力和综合管理能力，借助培训班的形式，快速化、标准化、系统化导入总部对分子公司文化管理、行政管理、人力资源管理工作的制度和要求，提升公司整体行政人力资源管理水平。使行政人力资源相关岗位人员进一步学习了解公司业务，提升管理和服务水平。做好行政和人力资源管理职业辅导，培养综合管理人才，建立公司行政人力资源管理专业人才梯队。



Talent Development 人才发展





7.3.5. Dongjiang Star

As for the “Dongjiang Star” management trainee project, it aims to continue to build a management talent reserve echelon. The “Dongjiang Star” fresh graduate student project is the cradle where the Group introduces fresh graduates to be trained into basic to middle level key personnel in the future. The training focuses on production and operation talents, process technology talents, market talents, EHS talents and functional talents.

The training methods of “Practice, Training and Cultivation” were adopted. The “Dongjiang Star” training project is divided into three phases: finding dreams, embracing dreams and realizing dreams. A one-year undergraduate students’ workplace practice consists of selection for one-month internships, one-month internship training and ten-month training in the workplace. After one year, a group of management students with potential in management will be selected for focused training. After 3-5 years, they will be promoted to management of the general grade and technical personnel of the subsidiaries.

The “Dongjiang Star” project is implemented on a rotational basis in accordance with the demand for personnel training. The project is carried out at least once a year to ensure the sustainable development of the reserve talent team. During the Reporting Period, the 3rd “Dongjiang Star” Freshman Training Camp was organized and a total of 38 fresh graduates were recruited.

7.3.5. 东江之星

「东江之星」应届生培养管培生项目，目的是持续打造管理人才后备梯队，是公司培养未来中基层关键岗位人才的摇篮，重点培养为生产运营型人才、工艺技术型人才、市场型人才、EHS型人才、职能型人才。

本项目采取「先落岗，再培养，后培优」的培养方式。「东江之星」培养项目共分为3个阶段：梦想起航、承载梦想、实践梦想。1年期的应届生定岗工作(用人单位选拔实习一个月，总部集中培训1个月，落岗历练10个月)；满一年后选拔一批具有管理潜力的应届生进行重点培养；通过3-5年的时间成长为分子公司基层管理者和技术骨干。

「东江之星」项目根据人才培养需求滚动实施，每年至少开展一次，保障后备人才梯队的持续发展。报告期内，举办第3期「东江之星」应届生训练营，共招收38名应届毕业生。



Talent Development

人才发展



A List of corporate culture activities

企业文化活动一览

- | | |
|-------------|---|
| January | Hosting the Spring Festival Evening with theme of "Integration, Innovation and Development" in which nearly 600 representatives of the Group participated in the cultural feast to promote the integration of culture and show the elegance of employees of Dongjiang Environmental, thereby enhancing a sense of honor and belonging of employees. |
| 1月 | 举办「融合、创新、发展」主题迎春晚会，集团上下近600名代表共同参与了一场文化盛宴，促进了文化的融合，也展示了东江环保人的风采，更增添了员工的荣誉感和归属感。 |
| March-April | Organizing a series of activities such as employee annual travel, 8 th March Women's Day symposium and Arbor Day to plant trees. |
| 3-4月 | 组织开展年度员工旅游活动、「三八妇女节」座谈会、植树节爱心植树等系列活动。 |
| May | The photography competition, "Labour, the Most Beautiful Moment", was organized to capture the working moments of employees from various positions of the Group and to show the beauty of the vast operation staff of the Group. |
| 5月 | 组织「劳动，最美瞬间」摄影比赛活动，通过捕捉在本集团各个劳动岗位上的员工工作瞬间，展示本集团最基层的劳动者之美。 |





June	Organizing the "6.5 World Environment Day" environmental protection publicity series, including cooperation with the Green Low Carbon Development Fund (GDF) to organize the "Balance of Environment and Life" social education series. Joining hands with Shenzhen Green Committee, Shenzhen Green Foundation and Shenzhen Landscape Architecture Association to organize the "Focus on Plants, Focus on the Future" campaign. At the same time, various subsidiaries also joined hands with local communities and government departments to carry out various environmental protection campaigns.
6月	组织开展「6.5世界环境日」环保宣传系列活动，包括携手绿色低碳发展基金会(GDF)提炼出「不持有生活」社会教育系列活动；联合深圳市绿委办、深圳市绿色基金会、深圳市风景园林协会举办「关注植物，关注未来」活动，同时，各分子公司也纷纷携手当地社区、政府部门开展形式多样的环保宣传活动。
July	Exploring innovative cultural activities and organizing online "E-sports" competitions to cater for the preference of young employees, add vitality to corporate culture and strengthen communication among employees of regional subsidiaries.
7月	探索文化活动创新形式，组织开展线上「电竞」比赛活动，满足年轻员工的喜好，为企业文化增添了活力，也加强了各地区分子公司员工间的交流。
August	Organizing employees to participate in the "Colorful Perspectives · Guangdong Rising Assets' Image" photography competition conducted by the Guangdong Rising Assets' trade unions to show the vivid scenes of the Company's production, management and staff through the lens screen. In the "Chinese Valentine's Day", the headquarters and subsidiaries organized various employee care and networking activities with the theme of "Love" to enhance a sense of belonging and cohesion of the Company's employees.
8月	组织员工参与广晟公司工会开展的「多彩视角·影像广晟」摄影大赛，通过镜头画面展现公司生产经营、职工工作的生动场景。 适逢「七夕情人节」，总部与分子纷纷以「爱」为主题，举办形式多样的员工关爱和联欢活动，增强了公司员工的归属感与凝聚力。
September	Organized a series of activities for "Dongjiang Environmental 18 th Anniversary" Celebration to emphasize a sense of ritual of corporate culture.
9月	组织开展东江环保成立18周年纪念日系列庆祝活动，强调了企业文化的仪式感。
October	Organizing "Dongjiang Environmental Canteen on the Tip of the Tongue Cooking Competition" for promoting the featured foods of canteens at various operation bases to show the talents of employees in different positions and promote the exchange and enhancement of the management level of the canteens at various operation bases.
10月	组织开展「舌尖上的东江环保食堂」厨艺大比拼活动，宣传各个基地制作食堂特色美食，给予不同岗位员工展示才艺的舞台，同时也促进各基地食堂管理水平的交流与提升。



Talent Development

人才发展

November	Organizing the “Grateful, All the Way with Dongjiang Environmental” campaign where employees actively sent messages to give thanks to parents, the Company, children and friends.
11月	组织开展「感恩，东江环保一路有你」活动，员工积极寄语，感恩父母，感恩公司、感恩子女，感恩朋友。
December	Headquarters and various subsidiaries organized the “Celebrate Christmas, Welcome New Year!” activities for employees to send small gifts and send blessings to each other. Some subsidiaries carried out skill fairs for forklift workers, motivating employees to improve their professional skills and form a good atmosphere of “Comparing, Learning, Catching up, Helping and Excel”.
12月	总部与各分子公司纷纷组织「庆圣诞、迎元旦！」活动，组织员工之间互送小礼物、互送祝福。部分分子公司开展叉车工的技能大赛，激励员工努力提升专业技能，形成「比、学、赶、帮、超」的良好气氛。



Charity Work 公益投放



As an environmentally-friendly enterprise rooted in the community, the Group understands the importance of growing together with the community and creating a better living environment for people. The Group has continuously increased investment in charity. The Group not only participates in environmental protection, but also contributes to the work of poverty alleviation.

8.1. Environmental Public Education

The Group takes advantage of different environmental protection festivals, including Environment Day, Earth Day, World Water Day, etc., to actively organize publicity and education activities. Through community activities such as environmental public welfare activities, voluntary tree planting and recycling of used batteries, various environmental protection knowledge is disseminated to employees. The Group also establishes a model in the community to play a positive role in the in-depth promotion of environmental education.

On 17 June 2017, the Group cooperated with Shenzhen Urban Management Bureau (Shilinye Bureau), Shenzhen Green Commission Office, Shenzhen Green Foundation, Shenzhen Landscape Architecture Association and Shenzhen Pingshan District Urban Management Bureau, etc. The charity tree planting activity named "Focus on Plants, Focus on the Future" was held in the Overseas Chinese Town Wetland Park to welcome the 19th International Botanical Congress. On the day of the event, more than 150 units and the public responded enthusiastically. A total of more than 5,000 people participated in the project and more than 6,000 trees were planted. The Group also donated 50 trees to add luster to the Overseas Chinese Town Wetland. The event echoed China's theme of the World Environment Day in 2017, i.e. "Green Environment is Wealth" which aimed to mobilize the community to firmly establish a strong awareness of "Green Environment is Wealth", respecting nature, conforming to nature and protecting nature to consciously practice green life and build a beautiful China together.

本集团作为扎根社区的环保企业，明白企业与社区共同成长，为人民创造美好生活条件的重要性。本集团不断加大社区公益投资，不单参与环保建设，更为社会精准扶贫的工作贡献力量。

8.1. 环境公众教育

本集团利用不同的环保节日，包括环境日、地球日、世界水日等，都主动组织宣传教育活动，通过环保公益活动、义务植树活动、废旧电池回收等社区活动，向员工传播各种环保知识，并在社区上树立楷模，为环保教育的深入推广起到了积极的作用。

2017年6月17日，本集团联同深圳市城管局(市林业局)、深圳市绿委办、深圳市绿色基金会、深圳市风景园林协会、深圳市坪山区城管局等，于华侨城湿地公园举行「关注植物，关注未来」公益植树活动，迎接第19届国际植物学大会的举行。活动当日得到150多个单位和市民群众的热切响应，合共约5,000多人参加，共植树6,000余棵，本集团另捐款植树50棵，为华侨城湿地增彩添绿。活动与2017年世界环境日中国主题「绿水青山就是金山银山」相呼应，旨在动员引导社会各界牢固树立「绿水青山就是金山银山」的强烈意识，尊重自然、顺应自然、保护自然，自觉践行绿色生活，共同建设美丽中国。



Charity Work

公益投放

On 9 September 2017, the Group cooperated with the Luyuan Environmental Protection Volunteers Association to hold an activity called "Dongjiang Environmental invites you to guard Dongjiang" to promote the conservation of Dongjiang, promote the protection of water safety in the basin and invite all people to participate in the protection of the water source. Dongjiang, the mother river that has a population of 40 million, is facing a serious environmental threat. It is the responsibility and obligation of Dongjiang Environmental to contribute to the governance of Dongjiang.

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. In 2017, the Group's teams participated in approximately 450 environmental emergency rescue cases. The Group also participated in various rescue cases and handled major environmental incidents in the local provinces and municipalities, including a number of pollution and spill incidents. The Group has been designated as an environmental rescue support unit by Shenzhen Habitat and Environment Committee to actively implement environmental protection and corporate social responsibility for the community.

In the future, relying on the environmental protection industrial park and the hazardous waste management platform, Dongjiang Environmental will establish more specialized emergency disposal teams and environmental emergency material reserves in various places to continuously improve the emergency rescue level of regional environmental emergencies.

2017年9月9日，本集团就配合绿源环保志愿者协会，举办「东江环保邀您一起守护东江」，推动保育东江，推动流域水安全得到有效保护，邀请全民参与水之源的守护。东江—这条孕育四千万人口的母亲河，正面临著严峻的环境威胁，东江环保有责任和义务为东江的治理奉献一份力量。

8.2. 应急救援行动

本集团是政府和企业信赖的环境应急救援专家，并在全国各地组建了多支环保救援队。2017年，本集团共出动环境应急救援任务约450次，并多次参与所在省、市重大突发环境事故的救援和处理工作，包括多项污染泄漏事故。本集团获深圳市人居环境委员会指定为环境救援依托单位，为社区积极践行环保企业社会责任。

未来，东江环保将依托环保产业园和危废智慧管理平台，在各地组建更多专业化的应急处置队伍和环境应急物资储备库，不断提升区域环境突发事件的应急救援水平。





8.3. Assisting in targeted Poverty Alleviation

In order to respond to the state to implement targeted poverty alleviation, the Group actively gives care for vulnerable groups, strives to do practical things and good deeds for the community and employees in need, handles hardships and maintains the harmony and stability of enterprises and society. In 2017, the Group assisted in targeted poverty alleviation work as follows:

Beautiful Shenzhen Charity Foundation Activities

Through the donation of RMB1 million from the beautiful Shenzhen Charity Foundation, the Group actively undertook social responsibility, cared about sanitation workers, united social forces and helped build a livable city.

Let's Join Hands to Alleviate Poverty

The Group participated in poverty alleviation activities of the Xili Street Federation of Trade Unions called "Let's Join Hands to Alleviate Poverty" to further implement the Party's and state's poverty alleviation policies and assist underprivileged groups to solve economic difficulties in production and life. Dongjiang Environmental, together with all sectors of the society, actively participated in the targeted poverty alleviation activities organized by the higher-level trade unions which provided targeted poverty alleviation measures for the poverty alleviation base of Bulian Village of Lianping County in Heyuan City and donated RMB25,900 to poverty alleviation work to support the poverty alleviation work of underprivileged communities.

8.3. 助力精准扶贫

本集团积极响应国家落实精准扶贫的号召，主动关爱弱势群体，努力为社区、困难职工办实事、做好事、解难事，维护企业和社会的和谐稳定。2017年度，本集团助力精准扶贫工作如下：

美丽深圳公益基金会活动

通过美丽深圳公益基金会对外捐赠100万人民币，积极承担社会责任，关爱环卫工人，凝聚社会力量，共建宜居城市。

「扶贫济困，你我同行」

参与西丽街道总工会「扶贫济困，你我同行」扶贫活动：为进一步落实党和国家的扶贫政策，协助弱势群体解决生产、生活中的经济困难。东江环保联同社会各界积极参与上级工会组织的定点扶贫行动，为河源市连平县布联村扶贫基地提供定点扶贫措施，捐助扶贫金259万人民币，支持贫穷社区的脱贫工作。



Charity Work 公益投放

Caring for the Poor and Helping to Overcome Poverty

The Group participated in the poverty alleviation activities of Guangdong Rising Assets called “Caring for the Poor and Helping to Overcome Poverty”. As the eighth “6.30” poverty alleviation day in Guangdong Province, the theme of the activity was “Caring for the Poor and Helping to Overcome Poverty”, which was the targeted poverty alleviation activities held by Ronghua Village of Mianyang Town of Wuhua County in Meizhou City. RMB30,000 was donated for poverty alleviation to support poverty alleviation work in rural areas.

「关爱贫困人口 助力攻坚脱贫」

参与广晟公司「关爱贫困人口 助力攻坚脱贫」扶贫活动，适值广东省第八个「6.30」扶贫济困日，这次活动的主题为：「关爱贫困人口 助力攻坚脱贫」，为梅州市五华县棉洋镇荣华村实施定点扶贫活动，捐助扶贫金3万元整，支持农村的脱贫工作。



Key Performance Summary of Sustainable Development

可持续发展关键绩效摘要



Key Performance Summary of Sustainable Development (Table below) is based on the Group's headquarters and its five major subsidiaries (for operation only). In the future, we will gradually expand the scope of information collection and increase disclosure coverage.

可持续发展关键绩效摘要(下表)的数据来自本集团总部及旗下五家主要子公司(仅限于办公部分)。未来,我们将逐步扩大数据收集范围及加大披露覆盖程度。



Environmental performance 环境表现	Unit 单位	2017 二零一七年度
Greenhouse gas emissions 温室气体排放量		
Direct greenhouse gas emissions (Scope 1) 直接温室气体排放(范围1)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	941.89
Direct greenhouse gas reduction (Scope 1) 直接温室气体减除(范围1)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	11.02
Indirect greenhouse gas emissions (Scope 2) 间接温室气体排放(范围2)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	19,485.79
Other indirect greenhouse gas emissions (Scope 3) 其他间接温室气体排放(范围3)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	11.52
Total greenhouse gas emissions (Scope 1, 2 & 3) 温室气体排放总量(范围1,2 & 3)	Metric tons of carbon dioxide equivalent 公吨二氧化碳当量	20,428.18
Intensity of Greenhouse gas emission 温室气体排放强度		
Floor area per square meter (category 1, 2 & 3) 每平方米楼面面积(范围1,2 & 3)	Metric tons of carbon dioxide equivalent/ Square meter of floor area 公吨二氧化碳当量/平方米楼面面积	0.33
Each employee (Category 1, 2 & 3) 每名员工(范围1,2 & 3)	Metric tons of carbon dioxide equivalent/Employee 公吨二氧化碳当量/员工	16.98



Key Performance Summary of Sustainable Development

可持续发展关键绩效摘要



Environmental performance 环境表现	Unit 单位	2017 二零一七年度
Fuel consumption 燃料消耗		
Amount of diesel consumed by the fleet 车队耗用的柴油量	Metric tons 公吨	110.92
Amount of gasoline consumed by the fleet 车队耗用的汽油量	Metric tons 公吨	79.36
Natural gas consumption 天然气消耗量	Ten thousand cubic meters 万立方米	4.31
Liquefied petroleum gas consumption 液化石油气消耗量	Metric tons 公吨	0.75
Refinery dry gas consumption 炼厂干气消耗量	Metric tons 公吨	0.05
Energy consumption 能源消耗		
Total power consumption 总耗电量	MWh 兆瓦时	36,967.91
Total power consumption intensity (per Square meter of floor area) 总耗电强度(每平方米楼面面积)	MWh/Square meter of floor area 兆瓦时/平方米楼面面积	0.60
Total power consumption intensity (each employee) 总耗电强度(每名员工)	MWh/Employee 兆瓦时/员工	30.73





Environmental performance 环境表现	Unit 单位	2017 二零一七年度
Water consumption 水源消耗		
Total water consumption 总耗水量	Ten thousand cubic meter 万立方米	41.39
Total water consumption intensity (per Square meter of floor area) 总耗水强度(每平方米楼面面积)	Ten thousand cubic meter/Square meter of floor area 万立方米/平方米楼面面积	0.0007
Total water consumption intensity (per employee) 总耗水强度(每名员工)	Ten thousand cubic meter/employee 万立方米/员工	0.03
Hazardous waste 有害废弃物		
Hazardous waste production (Electronic supplies) 有害废物产量(电子用品)	Set 台	26.00
Hazardous waste production intensity (per employee) 有害废物产量强度(每名员工)	Set/employee 台/员工	0.02



Key Performance Summary of Sustainable Development

可持续发展关键绩效摘要



Environmental performance 环境表现	Unit 单位	2017 二零一七年度
Harmless waste 无害废弃物		
General waste production 一般废物产量	Metric tons 公吨	25.05
General waste recovery 一般废物回收量	Metric tons 公吨	47.42
General waste production intensity (per employee) 一般废物产量强度(每名员工)	Metric tons/employee 公吨/员工	0.02
Paper consumption 纸张消耗	Sheet 张	801,500.00
Paper consumption intensity 纸张消耗强度	Sheet/employee 张/员工	666.25
Newly planted trees 新种植树木		
Newly planted trees 新种植树木	Trees 棵	479.00





Content of Indicators 指标内容		Relevant Sections 相关章节		
A. Environmental category A. 环境范畴				
A1: A1 :	Emissions 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. 有关废气及温室气体排放、向水及土地的排污、有害及无害废弃物的产生等的：(a)政策：及(b)遵守对发行人有重大影响的相关法律及规例的资料。	Core Business 核心业务 Environmental Management 环境管理
		A1.1	The types of emissions and respective emissions data. 排放物种类及相关排放数据。	Core Business 核心业务 Environmental Management 环境管理
		A1.2	Greenhouse gas emissions in total and Intensity. 温室气体总排放量及密度。	Low carbon office 低碳办公
		A1.3	Total hazardous waste produced and intensity. 所产生有害废弃物总量及密度。	Key Performance Summary of Sustainable Development 可持续发展数据摘要
		A1.4	Total non-hazardous waste produced and intensity. 所产生无害废弃物总量及密度。	Key Performance Summary of Sustainable Development 可持续发展关键绩效摘要



Appendix: Index of the Environmental, Social and Governance Reporting Guidelines of the Hong Kong Stock Exchange

附录：香港联合交易所《环境、社会及管治报告指引》索引



Content of Indicators 指标内容			Relevant Sections 相关章节	
		A1.5	Description of measures to mitigate emissions and results achieved. 描述减低排放量的措施及所得成果。	Core Business 核心业务 Environmental Management 环境管理
		A1.6	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved. 描述处理有害及无害废弃物的方法、减低产生量的措施及所得成果。	Core Business 核心业务 Environmental Management 环境管理
A2: A2 :	Use of Resources 资源使用	General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用资源(包括能源、水及其他原材料)的政策。	Core Business 核心业务 Environmental Management 环境管理
		A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total and intensity. 按类型划分的直接及/或间接能源(如电、气或油)总耗量及密度。	Key Performance Summary of Sustainable Development 可持续发展关键绩效摘要
		A2.2	Water consumption in total and intensity. 总耗水量及密度。	Key Performance Summary of Sustainable Development 可持续发展关键绩效摘要
		A2.3	Description of energy use efficiency initiatives and results achieved. 描述能源使用效益计划及所得成果。	Low carbon production 低碳生产 Low carbon office 低碳办公





Content of Indicators 指标内容			Relevant Sections 相关章节
		<p>A24</p> <p>Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency initiatives and results achieved.</p> <p>描述求取适用水源可有任何问题，以及提升用水效益计划及所得成果。</p>	<p>Low carbon production 低碳生产</p> <p>Low carbon office 低碳办公</p>
		<p>A25</p> <p>Total packaging material used for finished products and with reference to per unit produced.</p> <p>制成品所用包装材料的总量及每生产单位占量。</p>	<p>Not applicable. The Group's business does not involve packaging materials</p> <p>不适用，本集团业务不涉及包装材料</p>
A3: A3 :	The Environment and Natural Resources 环境及天然资源	<p>General Disclosure 一般披露</p> <p>Policies on minimizing the issuer's significant impact on the environment and natural resources.</p> <p>减低发行人对环境及天然资源造成重大影响的政策。</p>	<p>Core Business 核心业务</p> <p>Environmental Management 环境管理</p>
		<p>A3.1</p> <p>Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.</p> <p>描述业务活动对环境及天然资源的重大影响及已采取管理有关影响的行动。</p>	<p>Core Business 核心业务</p> <p>Environmental Management 环境管理</p>



Appendix: Index of the Environmental, Social and Governance Reporting Guidelines of the Hong Kong Stock Exchange

附录：香港联合交易所《环境、社会及管治报告指引》索引



Content of Indicators 指标内容			Relevant Sections 相关章节	
B. Social category B. 社会范畴				
B1: B1 :	Employment 雇佣	General Disclosure 一般披露	Information on: the policies; and 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. 有关薪酬及解雇、招聘及晋升、工作时数、假期、平等机会、多元化、反歧视以及其他待遇及福利的政策及遵守对发行人有重大影响的相关法律及规例的资料。	Talent Development 人才发展
B2: B2 :	Health and Safety 健康与安全	General Disclosure 一般披露	Information on: the policies; and 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. 有关提供安全工作环境及保障雇员避免职业性危害的政策；及遵守对发行人有重大影响的相关法律及规例的资料。	EHS "Three Simultaneous" management EHS「三同时」管理 Annual inspection - objective 一年一检一目标 Safety Training 安全培训
B3: B3 :	Development and Training 发展及培训	General Disclosure 一般披露	Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities. 有关提升雇员履行工作职责的知识及技能的政策。描述培训活动。	Safety Training 安全培训 The best achievements of staff 成就最好的员工





Content of Indicators 指标内容			Relevant Sections 相关章节
B4: B4 :	Labor Standards 劳工准则	General Disclosure 一般披露	Information on: the policies; and compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labor. 有关防止童工或强制劳工的政策；及遵守对发行人有重大影响的相关法律及规例的资料。 Aggregation of good employees 汇聚好员工
B5: B5 :	Supply Chain Management 供应链管理	General Disclosure 一般披露	Policies on managing environmental and social risks of the supply chain. 管理供应链的环境及社会风险政策。 Supplier management 供应商管理
B6: B6 :	Product Responsibility 产品责任	General Disclosure 一般披露	Product Responsibility: Information on: the policies; and 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. 产品责任：有关所提供产品和服务的健康与安全、广告、标签及私隐事宜以及补救方法的政策；及遵守对发行人有重大影响的相关法律及规例的资料。 Core Business 核心业务



Appendix: Index of the Environmental, Social and Governance Reporting Guidelines of the Hong Kong Stock Exchange

附录：香港联合交易所《环境、社会及管治报告指引》索引



Content of Indicators 指标内容			Relevant Sections 相关章节	
B7: B7 :	Anti-corruption 反贪污	General Disclosure 一般披露	Information on: the policies; and compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering. 有关防止贿赂、勒索、欺诈及洗黑钱的有的政策；及遵守对发行人有重大影响的相关法律及规例的资料。	Aggregation of good employees 汇聚好员工
B8: B8 :	Community Investment 社区投资	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. 有关以社区参与来了解运营所在社区需要和确保其业务活动会考虑社区利益的政策。	Charity work 公益投放





DONGJIANG ENVIRONMENTAL COMPANY LIMITED*
东江环保股份有限公司