

2018

Sustainability Report

可持續發展報告



To Create
Better
Investment Value
and Undertake
More
Social Responsibility

創造 **更好投資價值**
承擔 **更多社會責任**



CAI YUNGE
蔡允革

Executive Director and Chairman of the Board
執行董事兼董事會主席



Nowadays, global demand for energy is increasing rapidly and the problem of climate change is highly visible. Working together for a sustainable future is a great challenge that needs to be overcome. As a leading company in the environmental protection industry in China, as well as a world-renowned ecological and environmental management group, China Everbright International Limited (“Everbright International”) has been upholding its core value of “Creating better investment value and undertaking more social responsibility” to deliver excellent ecological environmental protection service solutions.

In the past year, Everbright International successfully started a new journey by continuously enhancing the sustainability capability of itself and the ecological environmental protection industry as a whole through the following initiatives: increased investment in scientific research to strengthen the capability to lead the development in science and technology; cultivated a team of professional talents to attain market leadership; was the first to open up its environmental protection facilities to public to enhance the public confidence in the environmental protection industry; pursued excellence and achieved close to zero discharge; entered into new business sectors such as environmental remediation to strengthen the competitive advantage of the industry value chain; supported the green development along the “Belt and Road” and enhanced the capability of global resource mobilisation; improved the modern enterprise system and facilitated the modernisation and internationalisation of corporate governance; implemented poverty alleviation through industrialisation to help lift local farmers out of poverty and create wealth; and provided author support to the United Nations’ Guidelines on People-first PPP Waste to Energy to facilitate the advanced development of the industry.

“A company with great ambition can overcome any difficulties”. Looking forward, Everbright International will seize the opportunities in the new era and advance the medium to long term development strategy, it will continue to “turning waste into energy for building a harmless environment”, actively participate in ecological conservation and protect our homes.

當前，全球能源需求不斷增大，氣候變化問題日益突出，如何攜手共創可持續未來，是必須認真思考並嚴肅回答的重大課題。作為中國環保行業的領軍企業、世界知名的生態環境集團，中國光大國際有限公司（「光大國際」）始終秉承「創造更好投資價值，承擔更多社會責任」的企業追求，為社會可持續發展提供更多優質生態環保服務方案。

過去的一年，光大國際成功開啟新的征程，不斷增強企業自身包括整個生態環保行業可持續發展能力：加大科研投入，強化科技引領能力；堅持專業化隊伍建設，培養市場領軍人才；在全國率先宣佈向社會開放旗下環保設施，提升公眾對環保行業的信心；追求卓越，實現近零排放；突破環境修復等新業務領域，強化全產業鏈競爭優勢；支持「一帶一路」綠色發展，增強全球配置資源能力；完善現代企業制度，推進公司治理現代化及國際化；實施「造血式」產業扶貧，幫助當地農民脫貧致富；支持聯合國以人為本固廢變能源PPP工作指南編寫，助推行業高質量發展。

志之所趨，無遠弗屆。展望未來，光大國際將在把握時代機遇、推進中長期發展戰略的同時，持續「致力轉廢為能，建設優美環境」，深度參與生態文明建設，保護人類賴以生存的地球家園。

**EVERBRIGHT INTERNATIONAL
SUSTAINABILITY REPORT
光大國際可持續發展報告**

2018

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China Everbright International Limited (“Everbright International” or the “Company”, together with its subsidiaries, the “Group”), a flagship company in the industrial investment sector of China Everbright Group Ltd., is listed on the Main Board of The Stock Exchange of Hong Kong Limited (the “Stock Exchange”) (stock code: 257). Everbright International has two listed subsidiary companies⁽¹⁾: China Everbright Water Limited (“Everbright Water”), listed on the Main Board of Singapore Exchange Securities Trading Limited (stock code: U9E) and the Main Board of the Stock Exchange (stock code: 1857), and China Everbright Greentech Limited (“Everbright Greentech”), listed on the Main Board of the Stock Exchange (stock code: 1257). After over a decade of development, Everbright International has grown into a leading player in China and Asia’s environmental protection industries, as well as a world-renowned ecological and environmental management group.

We believe delivering reports with clarity and transparency is the key to corporate sustainability management, therefore the Group’s key performance in environmental, social and governance (“ESG”) aspects are actively and continuously disclosed to stakeholders annually. The Sustainability Report 2018 (the “Report”) is the Group’s seventh standalone sustainability report, which covers the Group’s main sustainability initiatives and performance during 1 January 2018 to 31 December 2018 (the “Reporting Period”). The Report has been prepared in accordance with the GRI Standards: Comprehensive option⁽²⁾, its Electric Utilities Sector Disclosures as well as Rule 13.91 and Appendix 27 ESG Reporting Guide of the Rules Governing the Listing of Securities on the Stock Exchange. By these means, the material issues were covered in a more comprehensive manner. Besides, the Sustainable Development Goals (“SDGs”) of the United Nations have been fully integrated into the Group’s environmental and social management strategies to reflect its commitment to tackling the world’s most pressing issues.

The data and information disclosed in the Report were based on materiality assessment, stakeholder engagement and other relevant sustainability reporting guidelines, covering the sustainability performance of the Group’s headquarters in Hong Kong, representative offices⁽³⁾, Singapore office and the operating projects under the Group’s operational control during the Reporting Period⁽⁴⁾. The relevant entities of the Group can be found in the Company’s Annual Report 2018 (the “Annual Report 2018”) – Notes to Financial Statements. Relevant guidelines or standards in international or local context were used as the basis for data collection and analysis of the Report, including the use of the Clean Development Mechanism (“CDM”) approved methodologies for the estimation of the projects’ greenhouse gas (“GHG”) emissions and offset. All data included in the Report were rounded except integers and data already disclosed in the Annual Report 2018.

中國光大國際有限公司（「光大國際」或「本公司」，連同其附屬公司統稱「本集團」）為中國光大集團股份公司旗下實業投資之旗艦公司，香港聯合交易所有限公司（「聯交所」）主板上市公司（股份代號：257）。光大國際下轄兩家上市企業⁽¹⁾：新加坡證券交易所有限公司主板上市（股份代號：U9E）和聯交所主板上市（股份代號：1857）之中國光大水務有限公司（「光大水務」）以及聯交所主板上市之中國光大綠色環保有限公司（「光大綠色環保」）（股份代號：1257）。歷經十多年的發展，光大國際現已成為中國乃至亞洲環保行業的領軍企業、世界知名的生態環境集團。

我們相信為持份者提供清晰透明的報告是企業可持續發展管理的關鍵，因此本集團持續每年主動披露其在環境、社會和管治方面的主要表現。二零一八年可持續發展報告（「本報告」）為本集團第七份獨立的可持續發展報告，涵蓋了本集團於二零一八年一月一日至二零一八年十二月三十一日（「報告期」）期間的主要可持續發展策略和表現。本報告是依循GRI準則：全面選項⁽²⁾、其《電力行業披露》及聯交所證券《上市規則》第13.91條及附錄二十七所載的《環境、社會及管治報告指引》所編寫，務求報告更全面涵蓋實質性議題。此外，本集團將聯合國可持續發展目標（「SDGs」）全面融入環境及社會管理戰略中，以展示應對全球最迫切議題的決心。

本報告所披露的數據及信息是基於實質性評估、持份者參與和其他相關的可持續發展報告指引釐訂，涵蓋了本集團在報告期內於香港總部、代表處⁽³⁾、新加坡辦事處以及本集團擁有運營控制權的運營項目的可持續發展表現⁽⁴⁾⁽⁵⁾。本集團的相關實體資料可參閱本公司二零一八年年報（「二零一八年年報」）中的財務報表附註。本報告的資料收集及分析乃根據相關國際或當地指引及準則進行，包括使用清潔發展機制（「CDM」）核准的計算方法估算項目的溫室氣體排放及抵消。除了整數數據及二零一八年年報已公佈的數據外，本報告所載的所有數據均已作捨入調整。

The Group commissioned the Hong Kong Quality Assurance Agency as the third-party verification institution to conduct an independent audit and verification on the content and data of the Report, and the corresponding verification statement is appended to the Report. The board (the "Board") of directors (the "Directors") of Everbright International reviewed and approved the content and scope of the Report to demonstrate that the Board had considered sustainability issues as part of its strategic formulation, determined the material ESG factors and overseen the management and monitoring of those factors.

The Report is available in both Chinese and English versions and has been uploaded onto the websites of Everbright International (www.ebchinaintl.com) and the Stock Exchange (www.hkex.com.hk). If there is any inconsistency or discrepancy between the Chinese version and the English version, the English version shall prevail; in the event of any inconsistency or discrepancy between the Report and the Annual Report 2018, the Annual Report 2018 shall prevail unless otherwise stated⁽⁶⁾.

The Group welcomes all stakeholders and the public to provide valuable comments and suggestions to info1@ebchinaintl.com on the content of the Report, the reporting approach as well as the Group's sustainability performance.

Notes:

- (1) For the detailed sustainability performance of two listed subsidiary companies of the Group (namely Everbright Water and Everbright Greentech), please refer to their standalone 2018 sustainability reports.
- (2) GRI refers to Global Reporting Initiative.
- (3) Includes Shenzhen and Beijing representative offices.
- (4) Unless otherwise specified, the data of contractors and subcontractors is not reflected in the Report.
- (5) The Eco-recycling business sector of the Group was newly established in November 2018. Therefore, the environmental and social performance of this sector is not reflected in the Report.
- (6) During the Reporting Period, the Group extended the use of CDM calculation methodologies to re-calculate the GHG emissions offset by the Group's operations. Such data supersedes all information previously published by the Group.

本集團已委託香港品質保證局作為第三方核證審核機構，為本報告的內容及數據進行獨立審計及認證，其相關審核聲明已附載於本報告中。本報告的內容及範圍亦經過光大國際董事（「董事」）會（「董事會」）審閱及批准，以證明董事會已將可持續發展議題視為戰略制定的一部份，確定了主要的環境、社會及管治議題，並對該等議題的管理和監測進行了監督。

本報告備有中英文版本，並已上載至光大國際網站(www.ebchinaintl.com)及聯交所網站(www.hkex.com.hk)供下載及閱覽。如中、英文版本有任何抵觸或不相符之處，應以英文版本為準；除非另有說明⁽⁶⁾，若本報告和二零一八年年報有任何抵觸或不相符之處，應以二零一八年年報為準。

歡迎各持份者及公眾就本報告內容、報告方式和本集團在可持續發展方面的表現提供寶貴意見及建議，並電郵至info1@ebchinaintl.com。

附註：

- (1) 關於本集團旗下兩間附屬公司（分別為光大水務及光大綠色環保）的詳細可持續發展表現，請參閱其二零一八年的獨立可持續發展報告。
- (2) GRI是指全球報告倡議組織。
- (3) 包括深圳及北京代表處。
- (4) 除非另有註明，承包商及分包商的數據不會於本報告中反映。
- (5) 本集團的生態資源業務板塊於二零一八年十一月新成立，故此該板塊的環境和社會表現將不會於本報告中反映。
- (6) 報告期內，本集團擴大使用了CDM的計算方法以重新計算本集團運營的溫室氣體排放抵消量，此數據取代本集團先前出版的所有相關資料。

The year of 2018 is an important milestone in the history of the development of China's ecological and environmental protection industry. The inclusion of ecological conservation into the Constitution of the People's Republic of China (the "PRC") underscores the importance of ecological conservation in China's overall development planning. The establishment of the Ministry of Ecology and Environment ("MEE") of the PRC to replace the former Ministry of Environmental Protection ("MEP") of the PRC has consolidated all responsibilities related to ecological environmental protection that were previously assigned to various government departments, which facilitated the implementation of major policies relating to ecological environmental protection. Riding on sound development momentum of the environmental protection industry, the Group's revenue exceeded HKD27.2 billion in 2018, an increase of 36% compared with 2017. During the Reporting Period, the Group continued to facilitate the concurrent development of its seven major business sectors and create share value for every stakeholders.

During the Reporting Period, the Group received many accolades from home and abroad for its excellent performance in corporate social responsibility, corporate governance, environmental management, among others. It was included in a number of indexes, namely: the Dow Jones Sustainability Index series for the third consecutive year, the Hang Seng Corporate Sustainability Index for the fifth consecutive year, the MSCI China Index and FTSE4Good Index continuously, and the Greening the Global Supply Chain – CITI Index for the first time.

二零一八年是中國生態環境保護事業發展史上具有重要里程碑意義的一年。「生態文明」寫入憲法，彰顯了生態文明建設在國家總體布局的高度；生態環境部的設立，取代了原有的環境保護部，整合了分散的生態環境保護職責，更加有助於落實國家在生態環保方面的大政方針。在整個環保產業蓬勃發展的大勢下，本集團於二零一八年的全年收益突破港幣272億元，較二零一七年增長36%。集團旗下七大業務板塊於報告期內齊頭發展，源源不絕地為各持份者創造著共享價值。

報告期內，本集團憑藉在企業社會責任、企業管治、環境管理等方面的卓越表現，獲得多項國內外殊榮，包括連續第三年被納入道瓊斯可持續發展指數系列，連續第五年被納入恒生可持續發展企業指數，繼續為MSCI明晟中國指數成份股及富時社會責任指數成份股，並首次獲納入綠色供應鏈CITI指數。

Promote Green Development

The Group's business model stresses on environmental friendliness, delivering cleaner energy, better environment, improved health and well-being to our stakeholders. During the Reporting Period, we processed approximately 20,062,000 tonnes of household waste, 3,160,000 tonnes of agricultural and forestry waste and 127,052 tonnes of hazardous waste and solid waste. Our projects supplied approximately 8,294,419,000 kWh of on-grid green electricity in this year, and offsetting 10,811,827.04 tonnes of carbon dioxide (CO₂) equivalent emissions. We also treated approximately 1,271,248,000 m³ of waste water and 4,349,000 m³ of leachate, reducing chemical oxygen demand (COD) discharge by approximately 692,000 tonnes in total.

During the Reporting Period, the Group secured a total of 58 new projects and signed 6 supplementary agreements for existing projects, with a total investment of RMB23.522 billion. While the Group's overall business processing capacity increased significantly, it made substantial progress in international development. During the Reporting Period, Can Tho Waste-to-energy Project in Vietnam completed construction. The project has become Vietnam's first modernised, high-standard waste-to-energy project which has written a new chapter of the "Belt and Road" co-operation.

推動綠色發展

本集團以環保為本的業務模式為各持份者提供更清潔的能源及更佳的环境、健康和福祉。報告期內，我們處理了約20,062,000噸生活垃圾、3,160,000噸農林廢棄物及127,052噸危廢及固廢，項目合共供應綠色上網電量約8,294,419,000千瓦時，並抵消了二氧化碳當量排放10,811,827.04噸。污水及滲濾液處理量分別為約1,271,248,000立方米及約4,349,000立方米，合共減少了約692,000噸化學需氧量（COD）排放。

本集團於報告期內合共落實58個新環保項目並簽署6個現有項目的補充協議，涉及總投資額約人民幣235.22億元，整體業務處理規模再獲顯著提升。國際化發展亦取得重大進展，其中越南芹苴垃圾發電項目於報告期內正式建成完工，為當地首個現代化、高標準的垃圾發電項目，積極譜寫綠色「一帶一路」合作新篇章。

Implement Talent Strategy

To implement the talent strategy of “People-Oriented”, Everbright International attaches great importance to human resources management and actively explores opportunities in talent nurturing and human capital development. During the Reporting Period, the Group continued to improve its human resources through internal training as well as local, overseas, and on-campus recruitments, and continued to enrich its back-up management personnel pool across its 7 business sectors. There are around 900 back-up management personnel who are the major budding talents that will support the future development of the Group. Through strategic management structure adjustment, remuneration system optimisation and improvement in employees’ benefits and welfare, we strive to achieve win-win outcomes and create a platform for the employees to grow.

Enhance Research and Innovation

The Group continued striving for development driven by innovation by increasing its investment in the research and development (“R&D”) to enhance its core competitiveness. In 2018 alone, the Group was granted 212 patents and software copyright licences, including the first international invention patent. The Group’s self-developed large-scale 850 tonnes/day grate furnace rolled off the production line, filling the gap relating to locally manufactured large-scale grate furnaces in China. Additionally, a number of technological innovation platforms under the Group, including a national post-doctoral research branch station, were recognised by relevant authorities. In addition, the operation of the waste-to-energy project in Ethiopia signifies the implementation of the Group’s self-developed leachate treatment system in the overseas market for the very first time, which demonstrates that Everbright International’s equipment and technologies are well recognised by the overseas markets.

深化人才戰略

為深化「以人為本」的人才戰略，光大國際高度重視人力資源管理，積極探索對現有人才的培養和發展。報告期內，本集團繼續通過自身培養、本地招聘、海外招聘、校園招聘等方式不斷加強人才隊伍建設，並不斷完善七大業務板塊的後備管理人員庫。目前約有900名後備管理人員，作為本集團未來發展的主力軍和生力軍。透過策略性調整管理架構、優化薪酬體系並積極完善員工福利與保障，我們努力為員工創造成長打拚的平台，實現雙贏。

增強科研創新

本集團堅持創新驅動發展，不斷加大科研投入以提升核心競爭力：二零一八年獲得專利及軟體著作權212項，其中包括首個國際發明專利授權；自主研發的首台日處理850噸大型焚燒爐排成功下線，填補中國國產大容量焚燒爐排的空白。國家級博士後工作站分站等科技創新平台亦順利取得權威部門認證。此外，新投運的埃塞俄比亞垃圾發電項目首次實現了集團自主研發設計的滲濾液系統在國外的成功應用，體現了海外市場對我們產品和技術的認可。

Connect with Community

Everbright International is committed to maintaining close relationships with the community through quality education, community integration, poverty alleviation and climate action. In 2018, the Group held a ceremony in Nanjing and took the initiative to announce that 77 of its environmental protection facilities across all business sectors would be opened up for public visits in the next three years. This has made the Group the only environmental protection enterprise strategically supported by the MEE in relation to the initiative of opening up environmental protection facilities to the public. During the Reporting Period, the Group's environmental protection projects played the roles as hubs for environmental education, environmental science popularisation, circular economy and industrial tourism, receiving a total of 151,681 domestic and foreign visitors from all circles.

Our Way Forward

Looking at the global landscape in 2019, profound changes are in motion. Despite the difficult and complex domestic and external environment, countries around the world have not changed their political will and demand in resolving climate change and improving environmental quality. China has made continuous effort to promote ecological conservation, enhance the protection of the ecological environment, and prevent and control pollution. The coming year for Everbright International will be a year of "Reform and Improve", which opportunities and challenges exist side by side, yet opportunities are greater than challenges. The Group will continue to enhance its development capabilities through reforms, and extend its strong growth momentum in 2018 with efficiency and vitality as an overseas enterprise, and demonstrate responsibility and capability as a state-owned enterprise. The Group will leverage its advantages in scale, quality, technology and brand, to foster new dynamics for innovation-driven development and engage the world with Chinese roots, marching towards its strategic target of "Striving to Become a World-leading Ecological and Environmental Group."

WANG TIANYI

Executive Director and Chief Executive Officer

28 June 2019

緊密連繫社區

光大國際致力通過優質教育、社區共融、扶貧濟困及氣候行動等方式與社區維持緊密的關係。二零一八年，本集團在南京舉辦環保設施向公眾開放啟動儀式，率先宣布於未來三年內向公眾開放不同業務領域77個環保設施，為生態環境部重點支持的以企業整體名義將環保設施向公眾開放的中國唯一環保企業。報告期內，本集團旗下環保項目積極承擔環境教育、環境科普、循環經濟及工業旅遊基地的重要角色，共接待國內外各界人士參觀考察達151,681人次。

展望將來

邁入二零一九年，放眼世界，我們面對的是百年未有之大變局。與國內外環境複雜嚴峻相比，世界各國應對氣候變化、追求環境品質改善的政治意願與迫切需求不變，中國堅持推進生態文明建設、加強生態環境保護、堅持污染防治的決心與恆心不變。新的一年，機遇與挑戰並存，機遇大於挑戰，為光大國際「改革提升」年；集團將通過改革繼續提升發展能力，並帶著央企的責任與實力和外企的效率與活力，延續二零一八年的強勁發展勢頭，繼續發揮自身於規模、品質、技術和品牌方面的強大優勢，創新發展，扎根中國，走向世界，朝著「致力發展成為全球領先的生態環境集團」的戰略目標不斷邁進。

王天義

執行董事兼行政總裁

二零一九年六月二十八日

Creating Economic Value 創造經濟價值



- Revenue exceeded HKD**27.2** billion
收益突破港幣**272**億元
- Number of environmental protection projects exceeded **300**
環保項目數目突破**300**個
- Integrated biomass utilisation projects have directly and/or indirectly created over **20,000** jobs and increased farmers' income by RMB**1.15** billion, benefiting over **3.4** million farmers
生物質綜合利用項目直接及／或間接提供工作崗位逾**20,000**個，帶動農民增收約人民幣**11.5**億元，令逾**340**萬名農民受益

Contributing to the Environment 為環境作出貢獻



- Environmental protection projects supplied approximately **8,294,419,000** kWh of on-grid green electricity, offsetting **10,811,827.04** tonnes of carbon dioxide (CO₂) equivalent emissions
環保項目合共提供綠色上網電量約**8,294,419,000**千瓦時，抵消了二氧化碳 (CO₂) 當量排放**10,811,827.04**噸
- Treated approximately **1,271,248,000** m³ of waste water and **4,349,000** m³ of leachate, reducing chemical oxygen demand (COD) discharge by approximately **692,000** tonnes in total
處理污水約**1,271,248,000**立方米及滲濾液約**4,349,000**立方米，合共減少了約**692,000**噸化學需氧量 (COD) 排放
- Scored **B** in CDP's Climate Change Questionnaire
CDP《氣候變化調查問卷》得分為**B**級

Connect and Nurture Employees 凝聚員工 共同成長



- **9,821** employees in total
員工總數為**9,821**人
- Employee's total training hours were **774,006** hours, with an average of **78.81** hours per employee
員工培訓總時數為**774,006**小時，員工平均培訓時數為**78.81**小時
- Rate of work-related injuries: **0.13** (employees) and **0.12** (third-party contractors and subcontractors working onsite)
工傷率：**0.13**(員工)及**0.12**(第三方承包商及分包商駐場工人)

(Rate of work-related injuries = (Total number of work-related injuries/Total working hours) x 200,000)
(工傷率 = (工傷個案總計 / 工作總小時數) x 200,000)

Connecting our Community 與社會緊密聯繫



- Our environmental protection projects received a total of **151,681** local and foreign visitors from all circles
我們的環保項目共接待國內外各界人士參觀考察共**151,681**人次
- **2,099** hours of volunteer services
義工總時數為**2,099**小時
- Donations amounting to HKD**7,558,012.45**
捐款總金額為港幣**7,558,012.45**元
- "Everbright International True Love School" has accumulatively provided educational opportunities for **1,440** students
「光大國際愛心學校」已累計為**1,440**學生提供教育機會
- "Everbright Environmental Protection Charitable Fund" has accumulatively supported a total of **1,274** beneficiaries, with a total of over RMB**5** million delivered as consolation funds and financial aids
「光大環保愛心基金」已累計產生**1,274**名受益者，共計已發放超過人民幣**500**萬元慰問金及救助金

Key Sustainability Recognitions

主要可持續發展榮譽



Hang Seng Corporate Sustainability Index Series Member 2018-2019

Constituent Stock of Hang Seng Corporate Sustainability Index
恒生可持續發展企業指數成份股

Constituent Stock of Hang Seng Sustainability Benchmark Index
恒生可持續發展企業基準指數成份股

Institutional Investor:
機構投資者：

- Most Honored Company
最受尊崇企業
- Best CEO
最佳CEO
- Best Corporate Governance
最佳企業管治
- Best ESG SRI Metrics
最佳ESG SRI指標

Best Social Responsibility Brand – China Charity Festival
年度最佳責任品牌獎－中國公益節

President's Award – The Community Chest Annual Awards 2017/2018
公益金榮譽獎2017/2018



Happy Company 2018
開心企業2018

Special Mention – Sustainability and Social Responsibility Reporting Awards (Non-Hang Seng Index (Medium Market Capitalisation) Category – Best Corporate Governance Awards 2018
可持續發展及社會責任報告獎 – 評判嘉許－非恆指成份股（中市值）組別－最佳企業管治大獎2018



Constituent Stock of Dow Jones Sustainability Emerging Markets Index
道瓊斯可持續發展新興國家指數成份股



CSR Plus Mark – HKQAA
社會責任進階標誌－香港品質保證局



Green Supply Chain CITI Index (Ranking Top in Environmental Protection Sector of the Annual Brand List)
綠色供應鏈CITI指數（環保產業CITI指數評價排名榜首）

Ranked First among the Top Ten Influential Solid Waste Treatment Enterprises in China
中國固廢行業十大影響力企業榜首



8th Asian Excellence Award – Corporate Governance Asia:
第八屆亞洲卓越大獎－亞洲企業管治雜誌

- Asia's Best CEO, Mr. Wang Tianyi
亞洲最佳首席執行官－王天義先生
- Best Corporate Communications
最佳企業傳訊
- Best Investor Relations Company
最佳投資者關係企業



Constituent Stock of FTSE4Good Index
富時社會責任指數成份股



Bronze Class Distinction – RobecoSAM's 2018 Sustainability Yearbook
銅獎殊榮－RobecoSAM《2018年可持續發展年鑒》榮譽獎

Hong Kong Outstanding Enterprise 2018 – Economic Digest
傑出環境社會企業管治大獎 2018－經濟一週



Top Ten Influential Water Treatment Enterprises in China 2017
2017年度水業十大影響力企業之一

Good MPF Employer Award 2017-18 – Mandatory Provident Fund Schemes Authority:

2017-18年度「積金好僱主」嘉許計劃－強制性公積金計劃管理局：

- Good MPF Employer 2017-18
積金好僱主2017-18年度



04

We keep
**ABREAST WITH THE TIMES
AND PERSIST IN INNOVATION**
與時俱進·創新發展



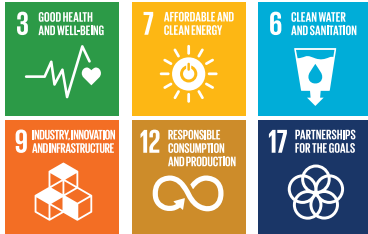
Everbright International is the first one-stop integrated environmental solutions provider in China, with its main businesses covering waste-to-energy, food waste treatment, waste sorting, environmental sanitation integration, waste water treatment, reusable water, water supply, water environment management, integrated biomass utilisation, hazardous waste and solid waste treatment, ecological restoration, solar energy, wind power, technological R&D, planning and designing, equipment manufacturing, analysis and testing, as well as environmental protection industrial parks. It has a business presence in over 150 locations across 20 provinces and municipalities in China, as well as in overseas markets including Germany, Poland and Vietnam. In 2018, the Group's revenue exceeded HKD27.2 billion with total assets surpassing HKD95 billion. Everbright International is a strategic partner of the Belt and Road International Alliance for Green Development and the Ecological Protection and Green Development of the Yangtze River Economic Belt.

光大國際是中國首個一站式、全方位的環境綜合治理服務商，主營業務包括垃圾發電、餐廚垃圾處理、垃圾分類、環衛一體化、污水處理、中水回用、供水、水環境治理、生物質綜合利用、危廢及固廢處置、生態修復、光伏發電、風電、技術研發、規劃設計、裝備製造、分析檢測、環保產業園等。業務覆蓋境內20個省、直轄市及150多個地區，遠播德國、波蘭及越南。二零一八年，本集團全年收益突破港幣272億元，總資產超過港幣950億元。光大國際現亦為「一帶一路」綠色發展國際聯盟戰略合作夥伴和長江經濟帶生態大保護戰略合作夥伴。



Seven Business Sectors Striving to Develop

七大業務板塊競相發展



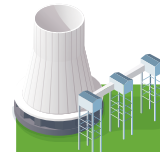
Environmental Energy 環保能源

- Waste-to-energy
垃圾發電
- Methane-to-energy
沼氣發電
- Sludge Treatment and Disposal
污泥處理處置
- Food Waste Treatment
餐廚垃圾處理
- Environmental Protection
Industrial Parks
環保產業園



Environmental Water 環保水務

- Water Environment Treatment
水環境治理
- Sponge City Construction
海綿城市建設
- River-basin Ecological Restoration
流域治理
- Waste Water Treatment
污水處理
- Water Supply
供水
- Reusable Water
中水回用
- Waste Water Source Heat Pump
污水源熱泵
- Sludge Treatment and Disposal
污泥處理處置



Greentech 綠色環保

- Integrated Biomass Utilisation
生物質綜合利用
- Hazardous Waste and Solid
Waste Treatment⁽¹⁾
危廢及固廢處置⁽¹⁾
- Solar Energy
光伏發電
- Wind Power
風電
- Environmental Remediation
環境修復



Envirotech 環境科技

- Technology Management
科技管理
- Technological R&D
技術研發
- Engineering Design
工程設計
- Analysis and Testing
分析檢測



Equipment Manufacturing 裝備製造

- Equipment Manufacturing
裝備製造
- Technology Development
技術開發
- Technology Consultancy
技術諮詢
- Technical Services
技術服務



Eco-recycling 生態資源

- Household Waste Sorting
生活垃圾分類
- Sanitation Services
環衛作業服務
- Renewable Resources
Utilisation
再生資源利用



International Business 國際業務

- Overseas Greenfield
Investment
海外綠地投資
- Mergers and Acquisitions
("M&As")
收併購
- Exporting Technologies
技術輸出

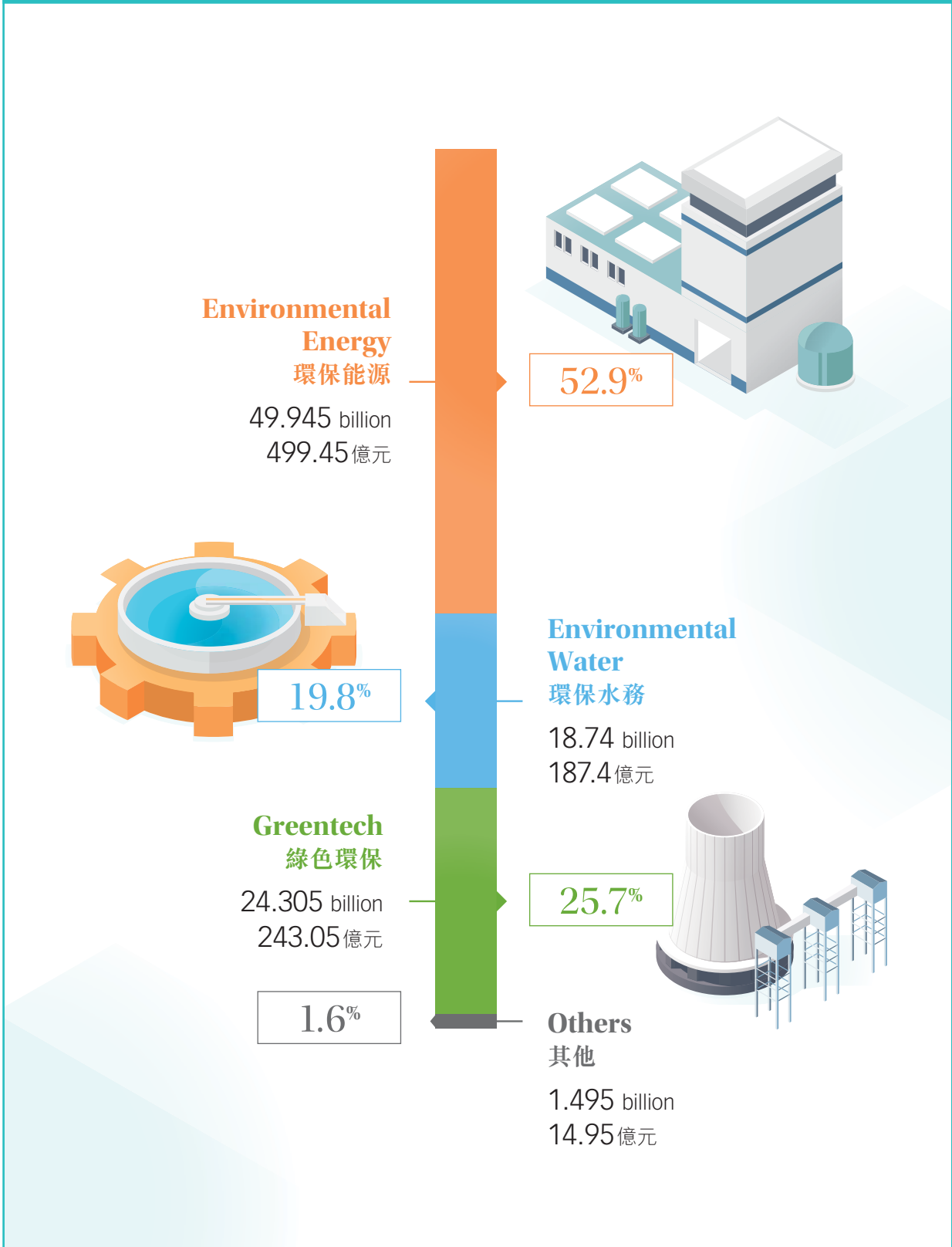
Note:

附註：

⁽¹⁾ Solid waste refers to wastes such as general industrial solid wastes and infectious animal carcasses.

⁽¹⁾ 固廢指一般工業固廢、病死動物等廢棄物。

Investment by Business Sectors (RMB)
業務板塊劃分的投資額 (人民幣)



Business Footprint

Everbright International’s projects are located in over **150** locations across **20** provinces and municipalities in China. It has secured **324** projects with an aggregated investment of approximately RMB**95** billion.

It has also tapped into overseas markets, including Germany, Poland and Vietnam.

業務分布

光大國際項目分布全國**20**個省及直轄市、**150**多個地區；共落實**324**個項目、累計總投資超過人民幣**950**億元。

海外業務進入德國、波蘭和越南市場。



Environmental Energy

Asia's largest waste-to-energy investor and operator

As a core business sector of Everbright International, Environmental Energy has the largest business scale of the Group. Environmental Energy covers waste-to-energy, leachate treatment, fly ash treatment, methane-to-energy, sludge treatment and disposal, food waste treatment, fecal treatment, development of environmental protection industrial parks, etc.



環保能源

亞洲最大垃圾發電投資運營商

環保能源是光大國際旗下規模最大的核心業務板塊，其業務範疇包括垃圾發電、滲濾液處理、飛灰處理、沼氣發電、污泥處理處置、餐廚垃圾處理、糞便處理、環保產業園開發等。



Projects secured 簽約項目

Total designed capacities 設計總規模

114

Annual household waste processing capacity of approximately **31,791,500** tonnes
年處理生活垃圾量約**31,791,500**噸

Annual on-grid electricity of approximately **10,061,250,000** kWh
年上網電量約**10,061,250,000**千瓦時

Annual sludge treatment capacity of approximately **73,000** tonnes
年處理污泥約**73,000**噸

Annual food waste treatment capacity of approximately **658,825** tonnes
年處理餐廚垃圾約**658,825**噸

Note:

(1) Data as at 31 December 2018.

附註：

(1) 數據截至二零一八年十二月三十一日。

Operation Overview of Environmental Energy Sector in 2018 二零一八年環保能源板塊運營概覽



Projects in Operation 運營項目

- 56** Waste-to-energy projects
垃圾發電項目
- 2** Methane-to-energy projects
沼氣發電項目
- 2** Landfill leachate treatment projects
填埋場滲濾液處理項目
- 1** Sludge treatment and disposal projects
污泥處理處置項目
- 3** Food waste treatment projects
餐廚垃圾處理項目

94.93 km
公里

Total length of aboveground transmission lines
地上輸電線路總長度

30.13 km
公里

Total length of underground transmission lines
地下輸電線路總長度

Operation Performance 運營表現

18,223,000 tonnes
噸

Household waste processed
處理生活垃圾

5,412,415,000 kWh
千瓦時

On-grid green electricity supplied
供應綠色上網電量



~300 kWh/tonne
千瓦時/噸

Average on-grid green electricity supplied
per tonne of waste
平均每噸垃圾綠色上網電量

Featured Projects

特色項目



Jiangsu Nanjing Waste-to-energy Project (4,000 tonnes/day)

江蘇南京垃圾發電項目 (4,000噸/日)

Being awarded as the national AAA-rated waste-to-energy plant, the project is currently the largest operating waste-to-energy project of Everbright International.

此項目獲國家AAA級垃圾焚燒發電廠評定，為目前光大國際最大的運營垃圾發電項目。



Jiangsu Changzhou Waste-to-energy Project (800 tonnes/day)

江蘇常州垃圾發電項目 (800噸/日)

Being awarded as the national AAA-rated waste-to-energy plant, the project is currently the only waste-to-energy plant in China that is located closest to residential communities.

此項目獲國家AAA級垃圾焚燒發電廠評定，為目前國內最近民居的垃圾焚燒發電廠。



Zhejiang Hangzhou Waste-to-energy Project (3,000 tonnes/day)

浙江杭州垃圾發電項目 (3,000噸/日)

A demonstration project that has successfully solved the "NIMBY" Effect (Not In My Back Yard Effect).

成功化解「鄰避效應」的示範項目。



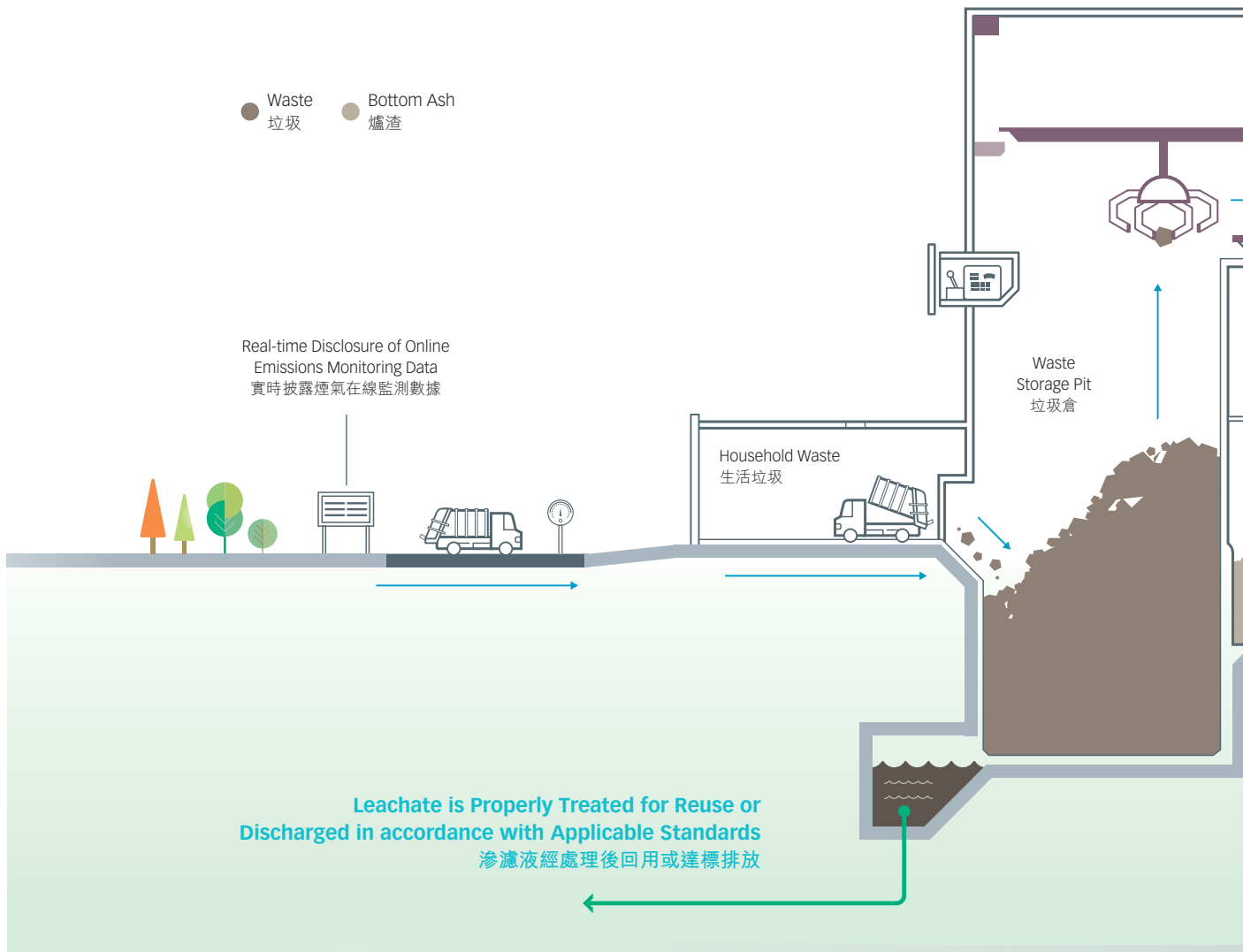
Guangdong Boluo Waste-to-energy Project (1,050 tonnes/day)

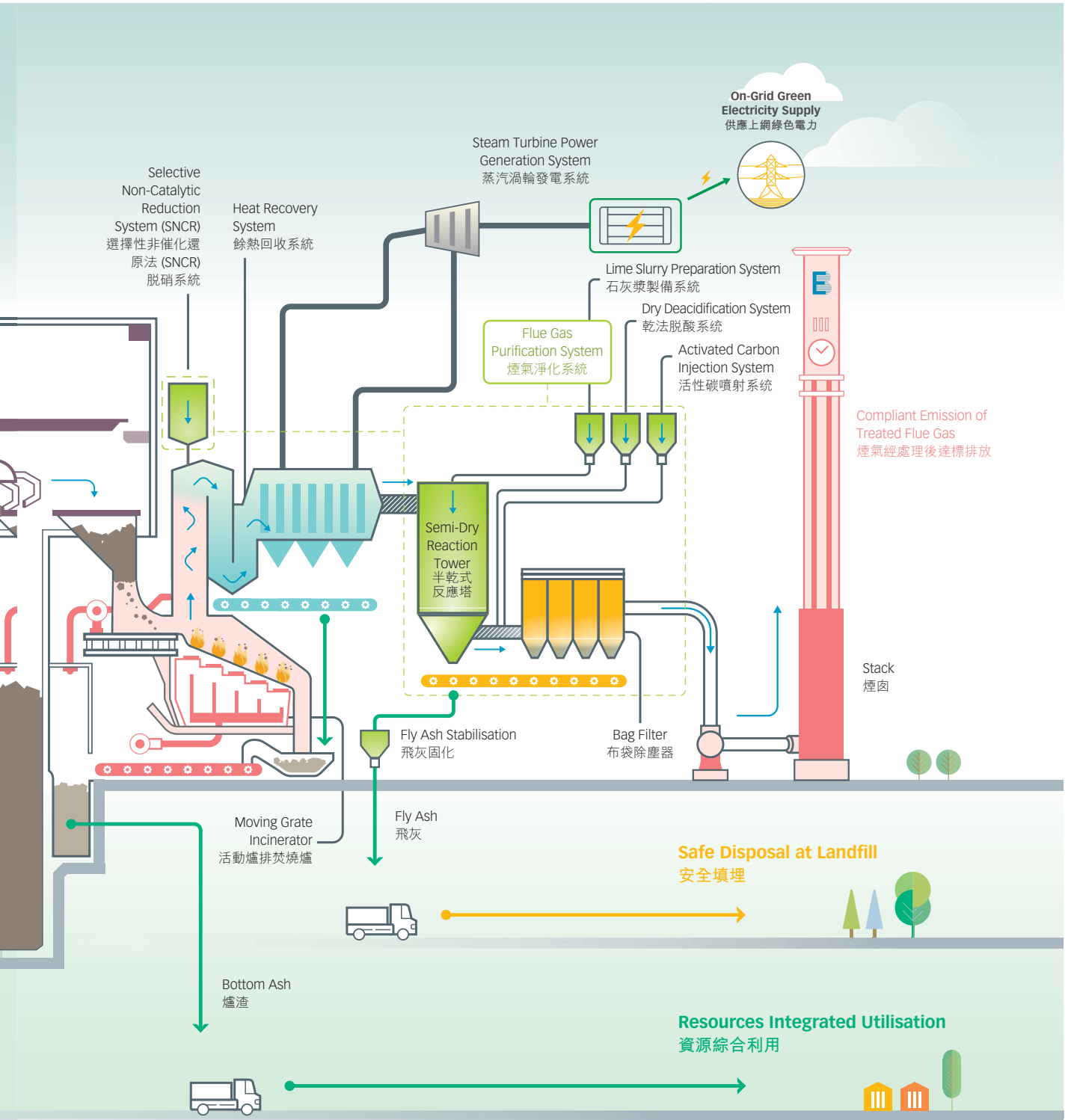
廣東博羅垃圾發電項目 (1,050噸/日)

Being awarded as the national AAA-rated waste-to-energy plant, the project is the first environmental protection park in Guangdong Province.

此項目獲國家AAA級垃圾焚燒發電廠評定，為廣東省首個生態環保園。

Waste-to-energy System — Process Flow Diagram 垃圾發電系統 — 工藝流程圖





Environmental Water

A water environment treatment service provider

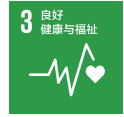
Everbright Water, with its controlling shareholder being Everbright International, is a Singapore and Hong Kong listed company that focuses on water environment treatment. It covers waste water treatment, water environment treatment, sponge city construction, river-basin ecological restoration, water supply, reusable water, waste water source heat pump, sludge treatment and disposal, and environmental water technological R&D, project construction, etc.



環保水務

水環境治理服務提供商

光大水務是由光大國際控股並於新加坡及香港上市，專注於水環境治理的公司。主營業務包括污水處理、水環境治理、海綿城市建設、流域治理、供水、中水回用、污水源熱泵、污泥處理處置以及環保水務技術研發和工程建設等。



Projects secured 簽約項目

111

Total designed capacities 設計總規模

Annual waste water treatment capacity of approximately **1,683,234,000** m³
年污水處理量約**1,683,234,000**立方米

Annual reusable water supply capacity of approximately **44,384,000** m³
年供中水約**44,384,000**立方米

Waste water source heat pump projects offer heating and cooling services to an area of **295,000** m²
污水源熱泵項目為**295,000**平方米面積提供供熱製冷服務

Designed daily water supply capacity of **250,000** m³
供水項目設計日供水量達**250,000**立方米

Note:

(1) Data as at 31 December 2018.

附註：

(1) 數據截至二零一八年十二月三十一日。

Operation Overview of Environmental Water Sector in 2018 二零一八年環保水務板塊運營概覽

Projects in Operation 運營項目

72 Municipal waste water projects 生活污水處理項目

including projects in trial run
含試運營項目

5 Industrial waste water treatment projects 工業污水處理項目

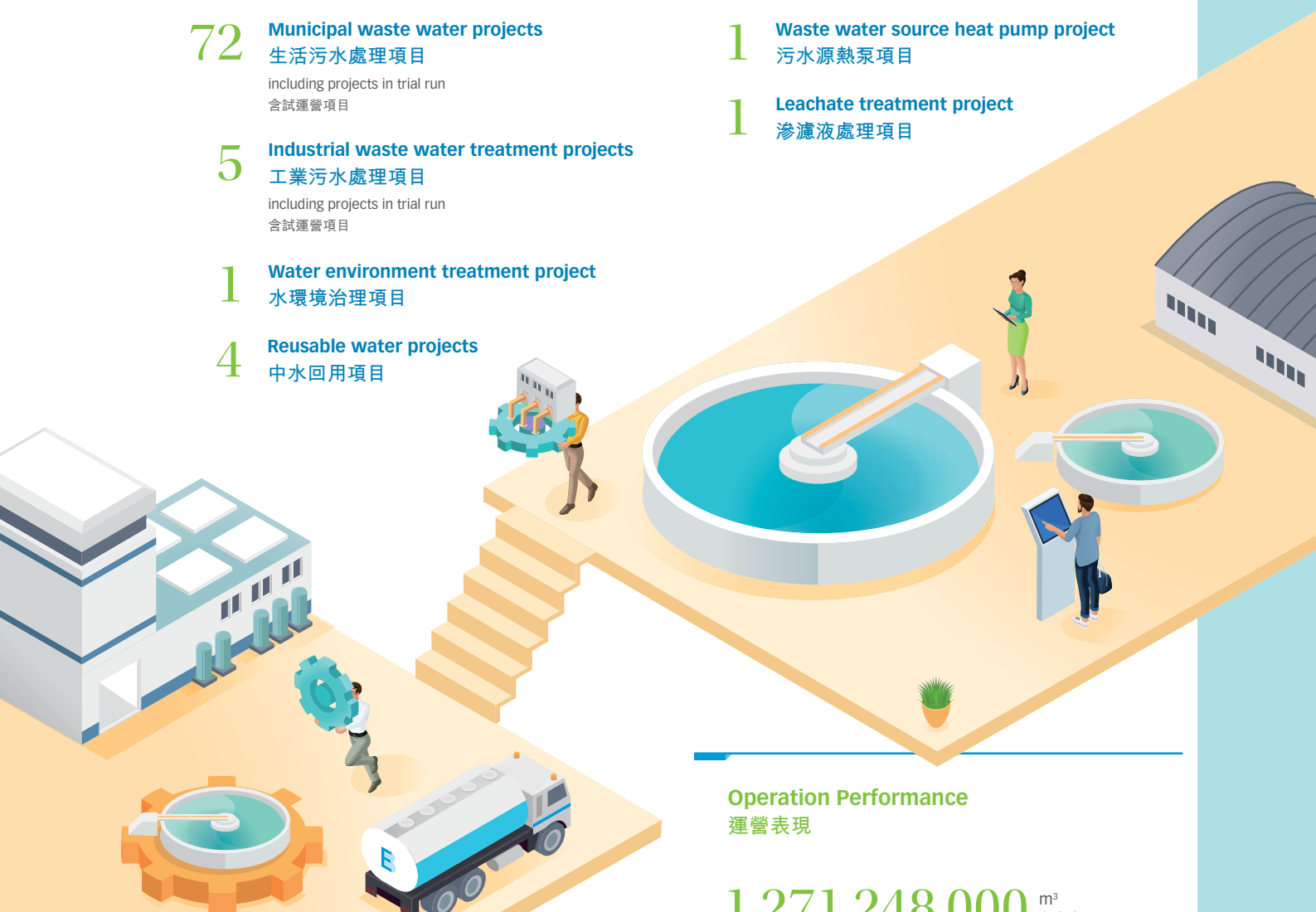
including projects in trial run
含試運營項目

1 Water environment treatment project 水環境治理項目

4 Reusable water projects 中水回用項目

1 Waste water source heat pump project 污水源熱泵項目

1 Leachate treatment project 滲濾液處理項目



Operation Performance 運營表現

1,271,248,000 m³
立方米

Waste water treated
處理污水

356,000 tonnes
噸

COD reduced
COD 減排量

Featured Projects

特色項目



Shandong Zibo Waste Water Treatment Project (250,000 m³/day)

山東淄博污水處理項目 (25萬立方米/日)

China's first project located in a "heavy industrial city" which complies with the national Grade 1A standard and the first project passed the clean production assessment with an "excellent" grading.

國內第一個「重工業城市」全部執行國家一級A污水處理排放標準的項目，首個以「優秀」通過清潔生產審核的項目。



Shandong Ji'nan Waste Water Treatment Project (880,000 m³/day)

山東濟南污水處理項目 (88萬立方米/日)

A municipal Gold Cup demonstration project. The project has been ranked the top for two consecutive years in a contest on municipal waste water treatment amongst 36 medium- and large-sized cities, which was launched by the Ministry of Housing and Urban-Rural Development of the PRC.

此項目為國家市政金盃示範工程，並連續兩年獲住屋和城鄉建設部（「住建部」）全國36個大中城市污水處理評比第一名。



Beijing Daxing Tiantanghe Waste Water Treatment Project (80,000 m³/day)

北京大興區天堂河污水處理項目
(8萬立方米/日)

China's first underground, fully-enclosed waste water treatment plant.

全國首座地下全密封污水處理廠。



Jiangsu Nanjing Municipal Water PPP Project

江蘇南京涉水市政工程PPP項目

The Group's first river-basin ecological restoration project.

本集團首個河道流域治理項目。

Greentech

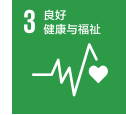
One of China's leading investors and operators specialised in integrated biomass utilisation and harmless treatment of hazardous waste

Everbright Greentech, with its controlling shareholder being Everbright International, is a Hong Kong listed company that focuses on integrated biomass utilisation, hazardous waste and solid waste treatment, environmental remediation, solar energy and wind power, amongst others.



綠色環保

全國領先生物質綜合利用、危廢無害化處置投資運營商之一



光大綠色環保是光大國際控股的香港上市公司，專注於生物質綜合利用、危廢及固廢處置、環境修復、光伏發電、風電等業務。

Projects secured 簽約項目

Total designed capacities 設計總規模

96

Annual processing capacity of biomass raw materials reached **8,699,800** tonnes
年處理生物質原材料約**8,699,800**噸

Annual household waste processing capacity of approximately **3,412,750** tonnes
年處理生活垃圾約**3,412,750**噸

Annual hazardous waste and solid waste treatment capacity of approximately **998,030** tonnes
年處置危廢及固廢約**998,030**噸

Annual on-grid electricity generation of approximately **7,120,003,000** kWh
年上網電量約**7,120,003,000**千瓦時

Annual steam supply of approximately **2,112,000** tonnes
年供應蒸汽約**2,112,000**噸

Note:

(1) Data as at 31 December 2018.

附註：

(1) 數據截至二零一八年十二月三十一日。

Operation Overview of Greentech Sector in 2018

二零一八年綠色環保板塊運營概覽

Projects in Operation

運營項目

22 Integrated biomass utilisation projects
生物質綜合利用項目

12 Hazardous waste and solid waste
treatment projects
危廢及固廢處置項目

7 Solar energy projects
光伏發電項目

2 Wind power projects
風電項目

1,073 ^{MW}
兆瓦

Aggregate power generation designed capacity of
integrated biomass utilisation projects

生物質綜合利用項目總設計發電裝機容量

125.9 ^{MW}
兆瓦

Aggregate power generation designed capacity of
solar energy and wind power projects

光伏發電項目及風電項目總發電裝機容量

84.99 ^{km}
公里

Total length of aboveground transmission lines

地上輸電線路總長度

20.32 ^{km}
公里

Total length of underground transmission lines

地下輸電線路總長度



Operation Performance
運營表現

3,160,000 tonnes
噸

Biomass raw materials processed
處理生物質原材料

881,000 tonnes
噸

Household waste processed
處理生活垃圾

127,000 tonnes
噸

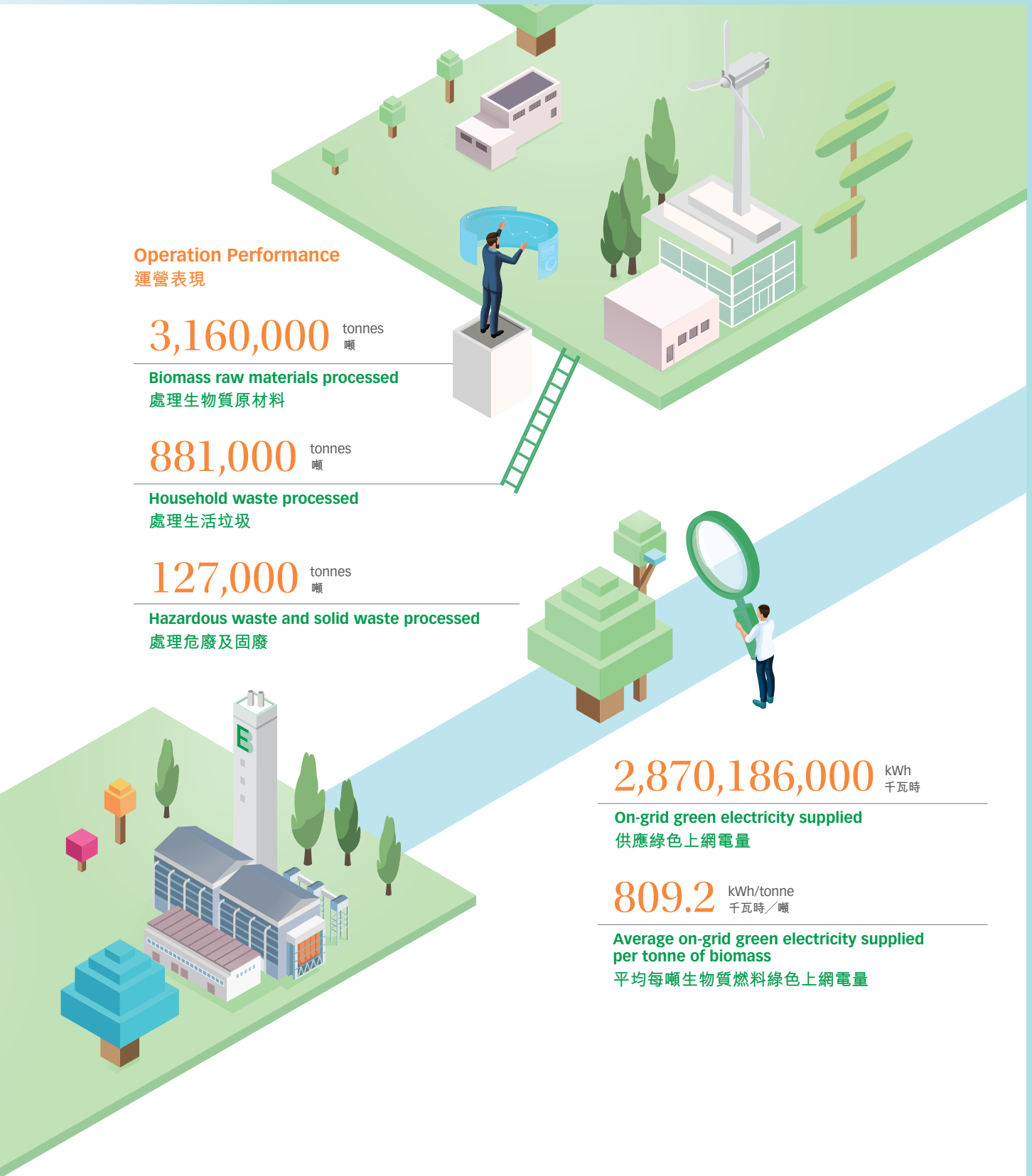
Hazardous waste and solid waste processed
處理危廢及固廢

2,870,186,000 kWh
千瓦時

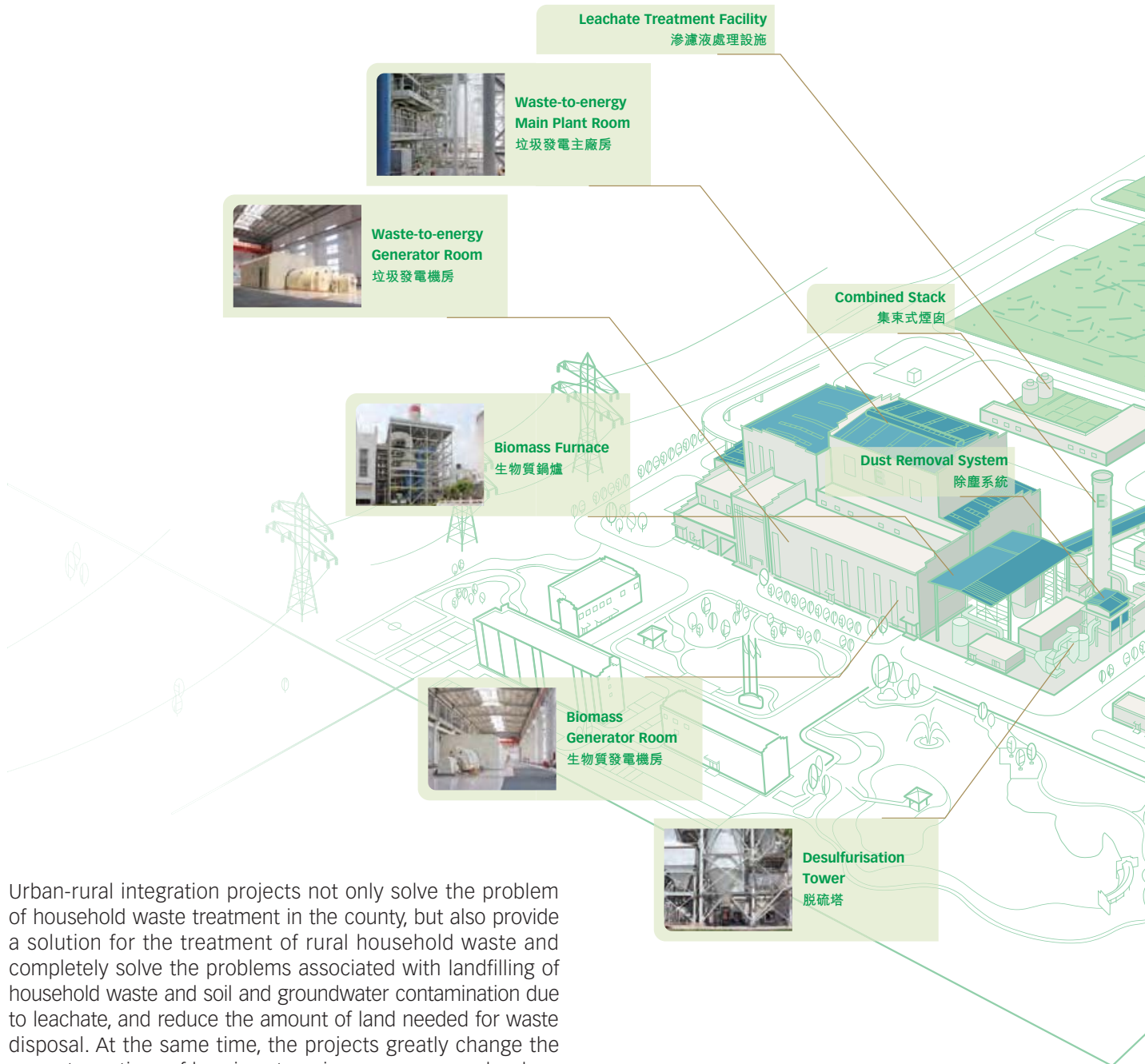
On-grid green electricity supplied
供應綠色上網電量

809.2 kWh/tonne
千瓦時/噸

Average on-grid green electricity supplied per tonne of biomass
平均每噸生物質燃料綠色上網電量

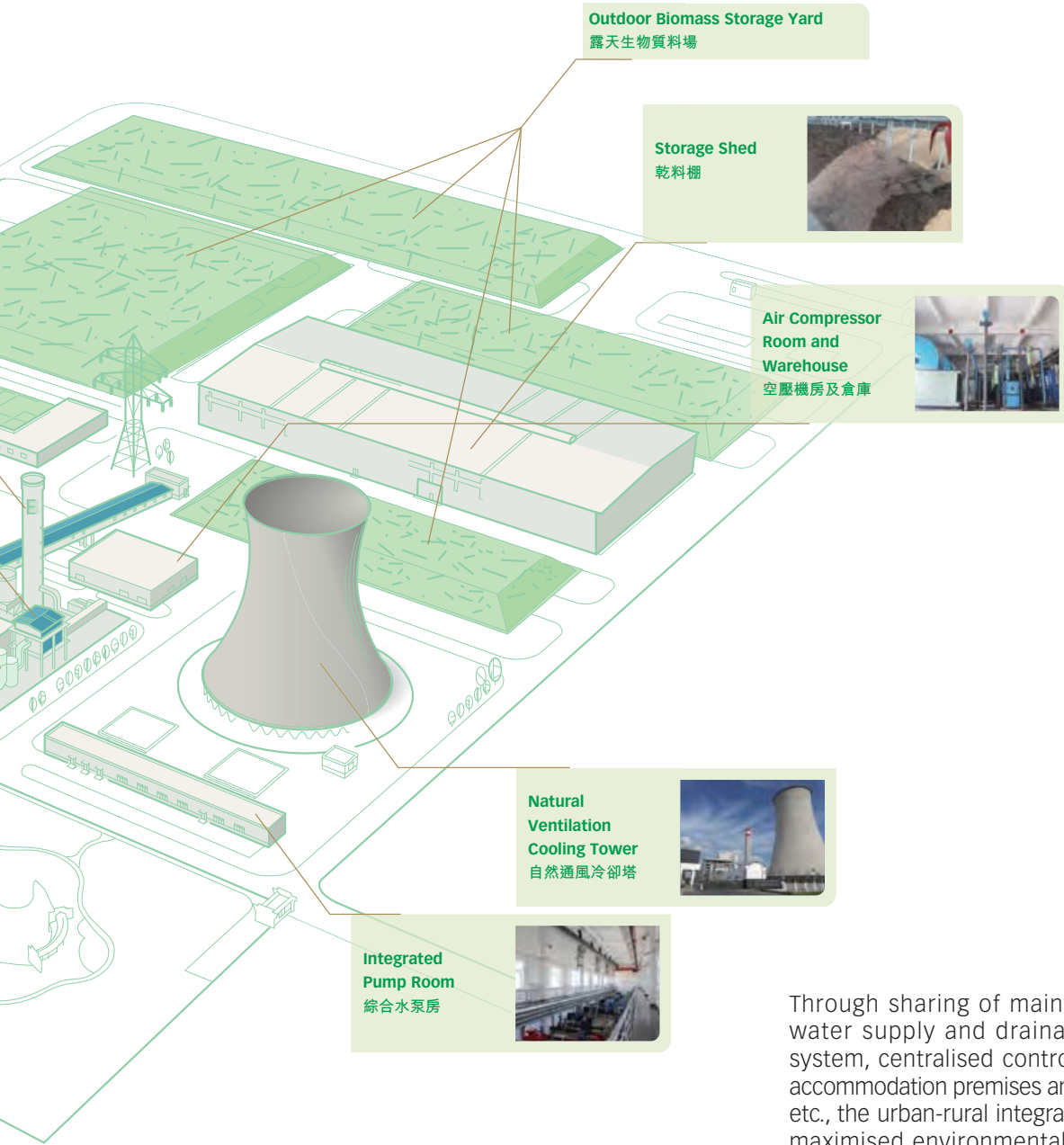


Integrated Biomass Utilisation Projects – Overview 生物質綜合利用項目－概覽



Urban-rural integration projects not only solve the problem of household waste treatment in the county, but also provide a solution for the treatment of rural household waste and completely solve the problems associated with landfilling of household waste and soil and groundwater contamination due to leachate, and reduce the amount of land needed for waste disposal. At the same time, the projects greatly change the current practices of burning straw in open space and reduce smog formation.

城鄉一體化項目不僅可以解決縣城內的生活垃圾問題，還可以為農村生活垃圾處理提供出路，徹底解決生活垃圾填埋及滲濾液污染土壤及地下水問題，可節約因填埋垃圾佔用的大量土地，同時極大程度上改變農村露天焚燒秸稈的現狀，減少霧霾的形成。



Through sharing of main plant, grid system, water supply and drainage system, cooling system, centralised control system, office and accommodation premises and management team, etc., the urban-rural integration projects not only maximised environmental service output, but also increased the overall returns on investment of the project, and enhanced the Group's competitiveness.

城鄉一體化項目通過共用主廠房、電網系統、給排水系統、冷卻系統、中控系統、辦公住宿場所及管理團隊等，既能提高環境服務產出，也能增加項目整體投資回報並提升本集團的競爭力。

Featured Projects

特色項目



Anhui Lingbi Integrated Biomass and Waste-to-energy Projects (Annual treatment capacities: 150,000 tonnes of household waste and 300,000 tonnes of straw)
安徽靈璧生物質及垃圾發電一體化項目
(15萬噸生活垃圾及30萬噸秸稈/年)

The first demonstration integrated urban-rural project in China and the industry that have had its biomass direct combustion power generation and waste-to-energy facilities constructed all at one time.

業內首創、國內第一座生物質直燃發電與垃圾發電融為一體建設的城鄉一體化示範項目。



Jiangsu Binhai Hazardous Waste Landfill Project (Annual treatment capacity: 30,000 tonnes of hazardous waste)
江蘇濱海危廢填埋項目(3萬噸危廢/年)

This project has the largest capacity among all hazardous landfill sites that the Group has made one-off investments in across China. The total landfill capacity of the project reaches 600,000 m³.

本集團在國內一次性投資庫容最大的危廢填埋場，項目填埋總庫容為60萬立方米。



Shanxi Ningwu Wind Power Project
山西寧武風電項目

Being awarded the "Fenshui Cup", Shanxi Province's best construction quality award.

獲山西省優質工程最高獎「建設工程汾水杯獎」。



German Ground Solar Energy Project
德國地面光伏發電項目

The Group's first overseas investment project and the largest ground silicon-based thin-film solar energy generation system in Germany at that time.

本集團首個海外投資項目，也是德國當時最大的地面矽基薄膜光伏電站。

Envirotech

Leading industry standards and pursuing innovation as new engine for development

Envirotech is the technological R&D sector of Everbright International, focusing on solving technical challenges related to environmental protection technology and technique, with an aim of aligning with the internationally-advanced practices. Envirotech is Everbright International's engine for development through innovation.



環境科技

行業標準引領者、創新驅動新引擎

環境科技是光大國際旗下的技術研發板塊，專注於環保工藝技術難點攻關，瞄準國際環保前沿技術，是光大國際實現創新引領的引擎。



61

Invention Patents
發明專利



1

International
Invention Patent
國際發明專利



385

Utility Inventions
實用新型



34

Software Copyright
Licences
軟件著作權

Note:

⁽¹⁾ Data as at 31 December 2018.

附註：

⁽¹⁾ 數據截至二零一八年十二月三十一日。

Key technological R&D achievements in 2018

Solid Waste Treatment

- Envirotech and Environmental Energy jointly developed Jiangyin Waste-to-energy Project Phase III with the use of high-strength and high-speed turbine generation technologies. The project is capable in generating electricity at 600 kWh per tonne of waste, which is first-of-its-kind in China.
- Envirotech developed plasma melting technology for the treatment of fly ash generated from the waste-to-energy process and completed the process system design at the capacity of 30 tonnes per day. With independent intellectual property rights, this technology facilitated Zhenjiang Waste-to-energy Project to become a boutique demonstration project, and laid a solid foundation for the localisation and industrialisation of plasma fly ash melting technologies.
- Envirotech developed flue gas recirculation technology and successfully applied it to 12 projects of the Group, including Shouguang Waste-to-energy Project, Zouping Waste-to-energy Project and Laiyang Waste-to-energy Project, etc.
- Envirotech developed an automatic combustion control system and applied it to 21 waste-to-energy projects. This combustion control system realised full automatic control of the waste incineration system, alleviated operators' workload and ensured stable loading and outputs.

Water Environment Treatment

- Envirotech developed a biological aerated filtration process package that could deliver effective denitrification results with Everbright's characteristics, and completed the development of a high-density sedimentation tank process package with independent intellectual property rights.
- Envirotech designed a set of advanced devices for the integrated treatment of rural waste water, continuously boosting the Group's core competitiveness.

二零一八年主要科研成就

固廢處理

- 環境科技聯合環保能源成功打造江陰垃圾發電項目三期成為全國首個採用高參數和高轉速汽輪機技術的項目，噸垃圾發電量達600千瓦時。
- 環境科技開發出具有自主智慧產權的生活垃圾飛灰等離子熔融技術，完成30噸／日整套系統工藝設計，打造鎮江垃圾發電項目精品示範，為飛灰等離子熔融技術國產化、工業化奠定堅實基礎。
- 環境科技開發煙氣再循環技術並順利於壽光垃圾發電項目、鄒平垃圾發電項目及萊陽垃圾發電項目等12個項目推廣運用。
- 環境科技開發的垃圾焚燒智慧燃燒控制系統已經在21個垃圾發電項目上投入運行，實現了垃圾焚燒系統的全自動控制，既減輕操作人員的工作負荷，也能確保負荷輸出平穩。

水環境治理

- 環境科技打造光大特色脫氮效果顯著的曝氣生物濾池工藝包，完成自主智慧產權高密度沉澱池工藝包的開發。
- 環境科技自主設計加工出了一套新型農村污水一體化處理裝置，不斷形成本集團核心競爭力。

Equipment Manufacturing

A high-end equipment manufacturing service provider with the brand of "Intelligent Manufacturing by Everbright International"

Headquartered in Changzhou City, Jiangsu Province, Everbright Environmental Technical Equipment (Changzhou) Limited represents Everbright International's Equipment Manufacturing sector, and a leading environmental protection equipment provider in China. In 2018, the Group secured 31 external sales contracts. A total of 75 sets of equipment were sold to external markets, an increase of 25% as compared with 2017. The equipment sold consisted of 35 sets of grate furnaces, 25 sets of gas purification systems and 15 sets of leachate treatment systems.



裝備製造

光大「智」造、高端裝備開發製造供貨商

光大環保技術裝備(常州)有限公司是光大國際旗下的設備製造板塊，總部位於江蘇省常州市，是國內領先的環保裝備供貨商。二零一八年共簽署外銷合同31份，外銷設備共計75台套，同比增加25%，其中焚燒爐35台套；煙氣淨化系統設備25台套；滲濾液處理系統15台套。



- Most of the grate furnace series with the daily waste processing capacities ranging from 300 tonnes to 850 tonnes have received the European Union's CE Mark, and have met export requirements of all European Union countries.
自主研發並生產的300噸／日—850噸／日系列爐排爐產品，大部份已取得歐盟CE認證，獲出口歐盟國家的資質。
- The self-developed 850 tonnes/day grate furnace was manufactured and came off the production line. The achievement filled the gap relating to locally manufactured large-scale grate furnaces in China, and marked the increase in capacities, breakthrough in technology and considerable improvement in quality of home-made grate furnaces.
850噸／日爐排爐成功下線，填補中國國產大容量焚燒爐排的空白，是國產焚燒爐容量的提升、技術的革新、質量的飛躍。



Complete Leachate Treatment System
成套滲濾液處理系統



- The leachate treatment system is able to process leachate with COD levels above 60,000 mg/m³.
可以處理COD濃度高於60,000 mg/m³的滲濾液。
- Through years of efforts in self-development and application, the leachate treatment technology has become systematic and is able to comply with standards for the discharge or reuse of treated effluent.
經過多年自主研發和實踐應用，形成系統化滲濾液處理技術，滿足滲濾液出水回用及排放標準。



Complete Flue Gas Purification System
成套煙氣淨化系統



- Air emissions of waste-to-energy projects fully comply with relevant national standards.
垃圾發電項目煙氣排放全面執行相關國家標準。
- The daily average values of online continuously monitored parameters are well below the respective emission limits as stipulated under the European Union Industrial Emissions Directive 2010/75/EU ("Euro 2010 standards").
煙氣在綫監測指標日均值全面優於歐盟《工業排放指令》(2010/75/EU) (「歐盟2010標準」)中的相關排放限值。

Eco-recycling

Everbright International's new business sector, with focuses on waste sorting, resource utilisation and environmental services

As Everbright International's new business sector, Eco-recycling mainly focuses on environmental services and integrated utilisation of renewable resources, with an aim of becoming China's first-class integrated urban-rural environmental management investor, operator and service provider. Eco-recycling is currently exploring new technologies and business models. Backed by other major business sectors of Everbright International, Eco-recycling targets to develop a full-chain business system that ranges from waste collection till end disposal.



生態資源

光大國際新興業務板塊，致力垃圾分類、資源利用、環境服務

生態資源是光大國際新增的業務板塊，主要從事環境服務與再生資源綜合利用業務，定位國內一流的城鄉環境綜合治理投資運營服務商。生態資源正積極探索新技術、新模式，依託光大國際主營業務板塊，構建從源頭回收至末端處置的全產業鏈業務體系。





Household Waste Sorting
生活垃圾分類

Development and operation of waste sorting systems, including household waste sorting and loading from the sources, collection and transportation of sorted waste, circulation of sorted renewable resources, information management platform services, amongst others.

生活垃圾源頭分類投放、分類收集運輸、分類回收資源流轉、資訊化管理平台等垃圾分類系統建設運營服務。



Sanitation Services
環衛作業服務

Environmental sanitation integration services, including urban-rural cleaning, development, operation and management of household waste collection and transportation systems, sanitation+ services, intelligent sanitation management, amongst others.

城鄉清掃保潔作業、生活垃圾收轉運系統建設及運維管理、環衛+服務、智慧環衛管理等環衛一體化服務。



Renewable Resources Utilisation
再生資源利用

A number of waste treatment services, including disposal of bulky waste and yard waste, treatment of construction and refurbishment waste, and disposal of electronic waste, etc., with an aim to establish a nationwide network management platform on renewable resources trading, and establishing a full industry chain on waste sorting and resource utilisation.

大件垃圾及園林垃圾處置、建築及裝修垃圾處置、電子廢棄物處置等，提供服務全國的再生資源交易網絡管理平台，打造垃圾分類資源利用完整產業鏈。

International Business

Steady progress in internationalisation, forging a new source of growth

Established as a key platform for Everbright International to follow China's "Belt and Road" initiative and participate in the global environment management, International Business is mainly responsible for exploring and investing in overseas markets for Everbright International. It has already invested in several projects in countries and regions along the "Belt and Road".



國際業務

國際化步伐穩健前進、業務發展新增長極

國際業務是光大國際響應國家「一帶一路」倡議、積極參與全球環境治理的主平台，負責光大國際海外業務拓展與投資，目前已在「一帶一路」沿線國家落實了多個投資項目。



Operation Overview of International Business Sector in 2018

二零一八國際業務板塊運營概覽

- 1 Waste-to-energy project (completed construction)
垃圾發電項目（建成完工）
- 6 Municipal solid waste management facilities
都市固廢管理設施
- 1 Solar energy project
光伏發電項目

Operation Performance 運營表現

957,000 tonnes
噸

Household waste processed
處理生活垃圾

11,818,000 kWh
千瓦時

On-grid green electricity supplied
供應綠色上網電量

August 八月



Everbright International tapped into the environmental protection market in Europe by spending RMB896 million to acquire NOVAGO Sp. z o.o. ("Novago"), the largest private municipal solid waste treatment company in Poland. The acquisition was also regarded as the largest Chinese acquisition in Central and Eastern Europe in 2016.

光大國際斥資人民幣8.96億元收購波蘭最大的私人都市固廢處理公司NOVAGO Sp. z o.o. (「Novago」)，成功打入歐洲環保市場。該項目是二零一六年中國在中東歐地區最大的一單併購。

September 九月



Everbright International invested RMB68.36 million in Schönnewalde Solar Energy Project based on a Build-Operate-Own ("BOO") model. The project was considered the largest ground solar energy project in Germany at that time.

光大國際投資人民幣6,836萬元以建造—運營—擁有(「BOO」)模式取得舍訥瓦爾德光伏發電項目，該項目為當時德國最大的地面光伏發電項目。

2011

2016

December 十二月

Everbright International won the bid for Vietnam Can Tho Waste-to-energy Project. The project, which completed construction in December 2018, commended an investment of approximately RMB320 million, and has a designed daily waste processing capacity of 400 tonnes. The project is Everbright International's first overseas waste-to-energy project, as well as Vietnam's first modernised waste-to-energy project.

光大國際中標越南芹苴垃圾發電項目。該項目於二零一八年十二月建成完工，涉及投資約人民幣3.2億元，設計日處理生活垃圾400噸，為光大國際首個海外垃圾發電項目，亦是越南第一個現代化的垃圾發電項目。



2018

October 十月



Everbright International won the bid for Vietnam Hue Waste-to-energy Project. The project commended an investment of approximately RMB400 million, and has a designed daily waste processing capacity of 400 tonnes. The project will adopt Everbright International's self-developed equipment as its core components.

光大國際中標越南順化垃圾發電項目。該項目涉及投資約人民幣4億元，設計日處理生活垃圾400噸，核心技術裝備將全面採用光大國際自主研發的設備。

Can Tho Waste-to-energy Project in Vietnam Completed Construction 越南芹苴垃圾發電項目建成完工

The Can Tho Waste-to-energy Project (“Can Tho Project”) in Vietnam completed construction in December 2018. The Can Tho Project marks the first overseas waste-to-energy project of Everbright International and also the first-ever modernised waste-to-energy project in Vietnam. The core equipment of the project is self-developed by Everbright International, including incineration furnace system, flue gas purification system and leachate treatment system. Gas emissions fully comply with relevant national standards, with the daily average values of online continuously monitored parameters are well below the respective emission limits as stipulated under the Euro 2010 standards. Currently, the Can Tho Project has a designed daily household waste processing capacity of 400 tonnes would generate approximately 60 million kWh of green electricity annually.

The Can Tho Project will become a benchmark in solid waste treatment in Vietnam and will drive growth of the environmental protection industry in local and surrounding countries in Southeast Asia. Moreover, the Can Tho Project signifies the maturity of the technology self-developed by Everbright International, allowing us to go abroad and stand in the global market.

越南芹苴市垃圾發電項目（「芹苴項目」）於二零一八年十二月建成完工。芹苴項目為光大國際首個海外垃圾發電項目，亦是越南第一個現代化的垃圾發電項目。芹苴項目核心技術裝備全面採用光大國際自主研發的設備，包括焚燒爐系統、煙氣淨化系統及滲濾液處理系統。芹苴項目的煙氣排放全面執行相關國家標準，煙氣在線監測指標日均值全面優於歐盟2010標準的相關排放限值。現時芹苴項目的設計日處理生活垃圾為400噸，每年能提供約6,000萬千瓦時的綠色電力。

芹苴項目將在越南固廢處理領域樹立標竿，推動當地以及周邊東南亞國家的環保行業發展。此外，芹苴項目亦標誌著光大國際自主研發的技術漸趨成熟，能夠走出中國市場，正式於國際舞台上立足。



Application of PPP in Urban Infrastructure Development PPP在城市基礎建設的應用

Everbright International is an early practitioner and promoter of PPP model in environmental protection infrastructures in China. It has over 200 domestic and overseas PPP projects, including the first modernised waste-to-energy project in Vietnam. PPP (Public-Private Partnership) consists of three essential elements, including the collaboration entities, content and relationship. The collaboration entities must include both government and private enterprise; the content refers to either public products or services, such as waste incineration, waste water treatment and other urban infrastructures, while the relationship refers to the long-term risk- and interest-sharing of both parties, including financial bearing capability of the government and reasonable financial return of the company.

The merits of PPP are particularly evident in large-scale infrastructure projects such as waste-to-energy and waste water treatment involving significant capital costs. Under the PPP model, the advantages of private enterprises in construction, technology and operation management are fully leveraged, so that the cost of the entire contract is lower than the corresponding cost if the government carries out the project on its own. In addition, project financing is usually completed by private companies under the PPP model, which alleviates governments' pressure to increase budget and expand debt, allowing governments to launch more large-scale infrastructure projects, hence improve the quality of life in communities. Most importantly, the income of private companies is linked to the quality of service under the PPP model. Taking waste-to-energy as an example, if the emissions exceed the statutory limits, the government has the right to impose fines or corresponding punishments on the company. Such approach creates sufficient motivation for companies to continuously improve their quality of service, thus enhancing the quality of infrastructure and public services.

光大國際是中國環保基礎建設PPP模式的早期實踐者和推動者，於中國及海外擁有200多個PPP項目，其中包括越南首個現代化垃圾發電項目。PPP (Public-Private Partnership)，又稱「公共私營合作制」，主要有三個必不可少的元素，包括合作主體、合作內容及合作關係。合作主體即政府與私人企業雙方，兩者缺一不可；合作內容即公共產品或服務，例如垃圾焚燒和污水處理等城市基礎建設；而合作關係即雙方長期穩定的風險分擔與利益分享，包括政府的財政承受能力與企業的合理回報等。

PPP的好處在垃圾發電及污水處理等涉及龐大資金成本的大型基礎建設上尤而易見。在PPP模式下，由於私人企業在建設施工、技術、運營管理等方面的優勢得以充分發揮，令整個合約的成本低於政府獨立開展項目時的相應成本。另外，項目融資在PPP模式下更多由私人企業完成，緩解了政府增加預算及增加債務的壓力，從而允許政府開展更多大型的基礎設施建設，進一步改善社區的生活質素。而最重要的是在PPP模式下，私人企業的收入與服務質量掛鉤，例如在垃圾發電行業中如果煙氣排放超過法定上限，政府有權對企業作出罰款或相應懲罰，這種運營模式使企業有足夠的動力不斷提高服務質素，確保基礎設施及公共服務的品質得到改善。

Application of PPP in Urban Infrastructure Development (Continued) PPP在城市基礎建設的應用（續）

With the tightening industry supervision, strengthening law enforcement and the enhanced efforts to rectify non-compliant PPP projects by the Chinese government, the PPP model will be radically reformed and become more standardised in China. Everbright International will continue to follow the government's pace and strengthen its PPP projects for the benefit of the society and achievement of the sustainable development goals.

隨著行業監管趨嚴，執法力度加強，加上中國政府加大力度整頓不規範的PPP項目，PPP模式將於國內正本清源，規範發展，而光大國際亦會繼續跟隨政府步伐做好PPP項目，造福民生，推動更快實現可持續發展目標。



05

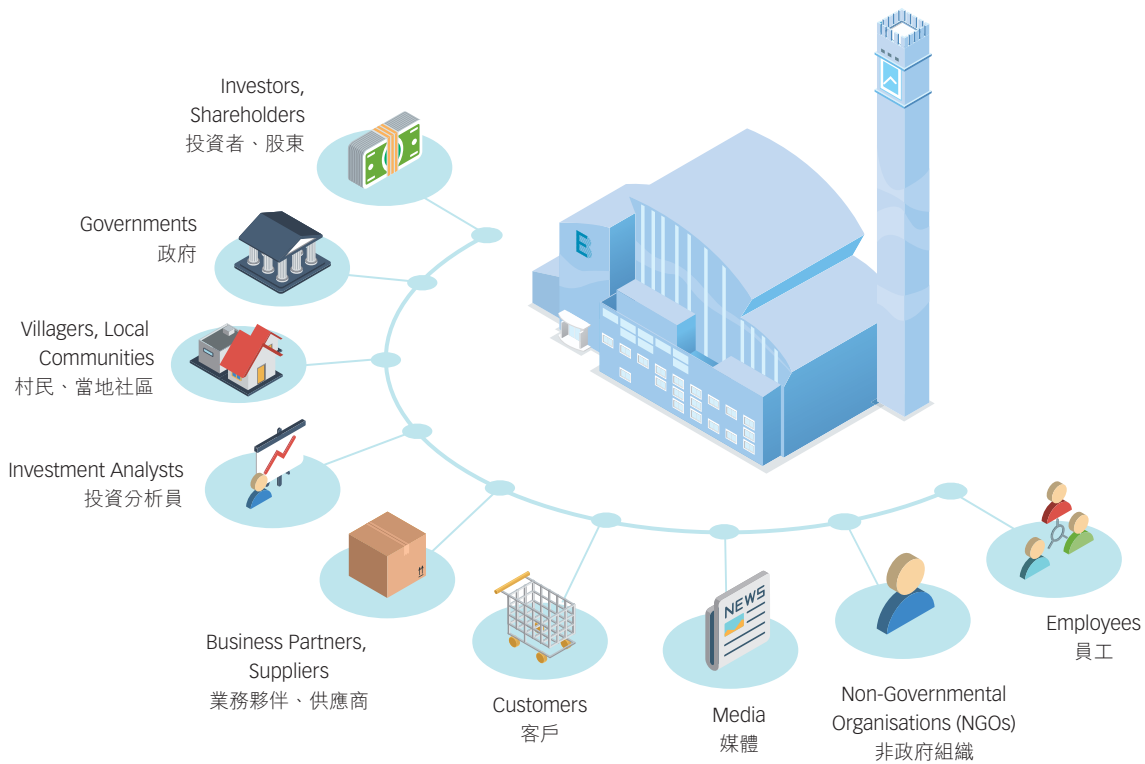
We draw on
**COLLECTIVE WISDOM, ADVICE
AND SUGGESTION**
集思廣益，建言獻策





Stakeholder engagement is an integral part in our sustainability strategy. Our key stakeholders include investors, shareholders, governments, customers, employees, local communities, business partners, suppliers, media, investment analysts, non-governmental organisations, etc. Upholding responsible, inclusive, participatory and representative decision-making principles at all levels, the Group has engaged with stakeholders through various communication channels in the past year, obtained valuable insights from their opinions and expectations on the Group's sustainable development.

持份者參與是我們的可持續發展策略中不可或缺的一環。我們的主要持份者包括投資者、股東、政府、客戶、員工、當地社區、業務夥伴、供應商、媒體、投資分析員及非政府組織等。本集團秉持負責、共融、協作和具代表性的決策模式，在過去一年透過各類溝通渠道與持份者進行互動，深入瞭解他們對本集團可持續發展方面的寶貴意見和期望。



We identified our stakeholders based on the following five principles:

我們對持份者的界定基於以下五個原則：

Responsibility 責任	Influence Power 影響力	Proximity 鄰近性	Dependency 倚靠性	Representation 代表性
Stakeholders linked to us through legal, financial, operational regulations, contracts, and/or policies 通過法律、財務、運營規則、合約及／或政策與我們連繫的持份者	Stakeholders with control in decision-making or indirect influence on the Group 對本集團具有正式決策權或非正式影響力的持份者	Stakeholders who live close to our operating plants and those we interact closely with 居於我們運營廠房附近及與我們的日常運作關係密切的持份者	Stakeholders who are most dependent on our operations 在很大程度上倚靠我們運營的持份者	Stakeholders who are representatives from various industries whom we communicated the most with 來自與我們聯繫最緊密的業界代表的持份者

Frequent Communications with Stakeholders

In order to identify and prioritise issues and concerns pertinent to sustainability in our operations, we invite stakeholders from the planning stage through the operation stage of the project life cycle on a regular basis to express their views on issues that are relevant to our operational and sustainability performance.

與持份者密切溝通

我們在項目的各個週期，從初始的規劃階段及至運營階段均定期邀請持份者發表對我們運營和可持續發展表現的意見，以識別所有運營項目中的優先議題及備受關注的相關可持續性事項。

Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequencies or Time of Engagement 頻率或時間
Investors, shareholders 投資者、股東	Annual/extraordinary general meeting 週年／特別股東大會	Annually/as needed 每年／根據需要
	Press release/announcement/circular 新聞稿／公告／通函	Regularly/as needed 定期／根據需要
	Results presentation 業績發布會	Half-yearly/annually 半年／每年
	Interim report/annual report 中期報告／年報	Half-yearly/annually 半年／每年
	Roadshow 路演	Regularly/as needed 定期／根據需要
	Meeting/teleconference 會議／電話會談	Regularly/as needed/upon request 定期／根據需要／根據需求
	Site visit 現場考察	As needed/upon request 根據需要／根據需求
Employees 員工	Work meeting/project meeting 工作會議／專題會議	Regularly 定期
	Interim/year-end performance review meeting 年中／年末表現評估會議	Interim/year-end 年中／年末
	Everbright publication 光大報刊	Monthly 每月
	Charity 公益活動	As needed 根據需要
	Face-to-face meeting/phone meeting 當面會談／電話會談	As requested by employees 根據員工需要
	Email to CEO and/or the Chairman of the Audit Committee 電郵至行政總裁及／ 或審核委員會主席	As needed 根據需要



Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequencies or Time of Engagement 頻率或時間
Governments 政府	Progress report 進度報告	Weekly/monthly/quarterly 每週/月/季
	Site visit 現場考察	Weekly/monthly/quarterly 每週/月/季
	Meeting 會議	Weekly/monthly/quarterly 每週/月/季
	WeChat and QQ 微信及QQ	As needed 根據需要
	Phone or email 電話或電郵聯繫	Weekly/monthly/quarterly 每週/月/季
	Customer satisfaction survey 客戶滿意度調查	Annually 每年
Customers 客戶	Meeting 會議	Weekly/monthly/quarterly 每週/月/季
	Phone or email 電話或電郵聯繫	Weekly/monthly/quarterly 每週/月/季
	Customer satisfaction survey 客戶滿意度調查	Annually 每年
Business partners, suppliers 業務夥伴、供應商	Procurement tender meeting 採購招標會	Every tender event 每次招標活動
	Phone interview 電話回訪	As needed 根據需要
	Questionnaire 調查問卷	Ad hoc 不定期
	WeChat and QQ 微信及QQ	As needed 根據需要

Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequencies or Time of Engagement 頻率或時間
Villagers, local communities 村民、當地社區	Project visit/site visit 項目參觀／現場考察	Before construction/open day on the first weekend of every month/ upon request 工程施工前／每月第一個週末之公眾開放日／根據需求
	Survey 意見調查	Before construction/as needed 工程施工前／根據需要
	Public hearing 公聽會	Before construction/as needed 工程施工前／根據需要
Media 媒體	Project visit/site visit 項目參觀／現場考察	As needed/upon request 根據需要／根據需求
	Press release/announcement 新聞稿／公告	Regularly/as needed 定期／根據需要
	Management interview 管理層採訪	Regularly/as needed/upon request 定期／根據需要／根據需求
	Results presentation 業績發布會	Half-yearly/annually 半年／每年
Investment analysts 投資分析員	Project visit/site visit 項目參觀／現場考察	As needed/upon request 根據需要／根據需求
	Meeting 會議	As needed/upon request 根據需要／根據需求
	Press release/announcement 新聞稿／公告	Regularly/as needed 定期／根據需要
	Results presentation 業績發布會	Half-yearly/annually 半年／每年
	Interim report/annual report 中期報告／年報	Half-yearly/annually 半年／每年
Non-governmental organisations 非政府組織	Charity 公益活動	As needed 根據需要
	Site visit 現場考察	Regularly/as needed 定期／根據需要
	Meeting 會議	As needed 根據需要

Materiality Assessment

To identify significant sustainability risks and opportunities of Everbright International, we conduct a comprehensive materiality assessment on an annual basis. This assessment guides the prioritisation of topics identified during the stakeholder engagement process and helps us determine the economic, environmental and social issues that are of most concern to the Group and its stakeholders, so that we could make corresponding adjustments to allocate resources and enhance clarity in reporting and communication of the sustainability issues.

實質性評估

為辨別光大國際的重大可持續發展風險及機遇，我們每年均會進行一次全面的實質性評估。評估將對從持份者參與過程中識別出來的議題進行優先排序，確定本集團及持份者最為關切的經濟、環境和社會議題，從而調整資源投放，並使可持續發展議題的報告和溝通更具針對性。

The Major Steps of Materiality Assessment

實質性評估的主要步驟



Stage
第一階段

1

Identification of Relevant Sustainability Topics

識別相關可持續發展議題

The identification of material topics was carried out by our independent sustainability consultant. A list of over 30 significant issues was compiled from the evaluation of Everbright International's major impacts on sustainability (refer to "List of Sustainability Topics"). These key topics were determined from extensive sources of information, including the indicators of GRI Standards, SDGs, stakeholders' opinions, the Group's policies and management strategies, internal publications and media reports, etc.

實質性議題的識別經由獨立可持續發展顧問進行。評估收集了超過30個與光大國際相關的可持續發展議題（見「可持續發展議題列表」）。這些關鍵議題乃透過廣泛資料來源所得，包括GRI準則的指標、可持續發展目標、持份者的意見、集團政策及管理策略、內部刊物及媒體報導等。



List of Sustainability Topics

可持續發展議題列表

Economic 經濟	Environmental 環境	Social 社會	
<ul style="list-style-type: none"> Economic Performance 經濟績效 Market Presence 市場地位 Indirect Economic Impacts 間接經濟衝擊 Procurement Practices 採購行為 System Efficiency 系統效率 Technological R&D 科研及開發 Anti-Corruption 反貪腐 Anti-Competitive Behaviour 反競爭行為 	<ul style="list-style-type: none"> Materials and Resources Usage 物資及資源使用 Energy Efficiency 能源效益 Water Resources Consumption 水資源消耗 Greenhouse Gas management and Climate Change Mitigation 溫室氣體管理及氣候變化的應對 Waste Water and Waste Management 污水及廢棄物處理 Biodiversity 生物多樣性 Environmental Compliance 環保合規 Suppliers' Environmental Assessment 供應商環境評估 Construction Management 在建項目施工管理 	<ul style="list-style-type: none"> Employee Welfare 員工福利 Occupational Health and Safety 職業健康與安全 Training and Education 培訓及教育 Diversity and Equal Opportunity 多元化及平等機會 Anti-Discrimination 反歧視 Internal Communication 內部溝通 Social Assessment of Suppliers 供應商社會評估 Rights of Indigenous Peoples 原住民權利 	<ul style="list-style-type: none"> Human Rights Assessment 人權評估 Child Labour and Forced Labour 童工或強制勞動 Participation of Local Communities 當地社區參與 Social Compliance 社會合規 Customer Privacy 客戶私隱 Disaster and Emergency Planning and Response 災難及應急預案規劃 Customer Health and Safety 顧客健康與安全

Stage
第二階段



Interviewing Stakeholders and Establishing Materiality Matrix

持份者訪問及製作實質性矩陣

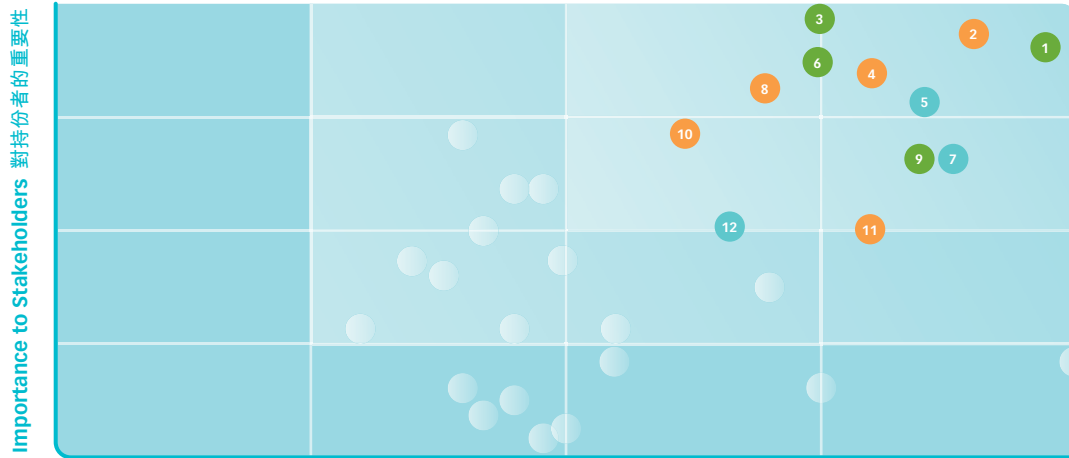
A stakeholder engagement survey was conducted by our independent sustainability consultant to obtain the order of priority of the material topics identified in Stage 1 from 9 key stakeholder groups. The findings were then summarised and analysed by the consultant in form of materiality matrix based on two parameters: perceived importance to the stakeholders and significance of impacts to Everbright International. The prioritised topics perceived by both the stakeholders and the Group with the highest importance become the focus of disclosure of the Report.

獨立顧問對九個重點持份者組別進行持份者參與調查，依據調查結果為第一階段識別的實質性議題作優先排序，隨後根據持份者對議題的重要性評分和議題對光大國際的重要性兩個參數，將這些議題透過量化分析進行排序，並以矩陣表達，從而確定在兩個層面最為重要的議題。於持份者和集團層面最為重要的議題即為本報告的披露重點。



Materiality Matrix

實質性矩陣



Significance of Economic, Environmental and Social Impacts 對經濟、環境和社會影響的顯著性

Economic 經濟	Environmental 環境	Social 社會
<ul style="list-style-type: none"> 5 Technological R&D 科研及開發 7 Economic Performance 經濟績效 12 Market Presence 市場地位 	<ul style="list-style-type: none"> 1 Energy Efficiency 能源效益 3 Environmental Compliance 環保合規 6 Waste Water and Waste Management 污水及廢物處理 9 Materials and Resources Usage 物資及資源使用 	<ul style="list-style-type: none"> 2 Occupational Health and Safety 職業健康與安全 4 Disaster and Emergency Planning and Response 災難及應急預案規劃 8 Social Compliance 社會合規 10 Employee Welfare 員工福利 11 Participation of Local Communities 當地社區參與



Material Topics of Everbright International

光大國際實質性議題

Material Topics 實質性議題	Impact and Boundaries 影響及範圍									GRI Topic-specific Standard GRI特定主題準則	Relevant SDGs 相關的聯合國 可持續發展目標
	Investors, Shareholders 投資者、股東	Employees 員工	Governments 政府	Villagers, Local Communities 村民、 當地社區	Customers 客戶	Business Partners, Suppliers 業務夥伴、 供應商	Investment Analysts 投資分析員	Media 媒體	Non- Governmental Organisations 非政府組織		
1 Energy Efficiency 能源效益	✓	✓			✓	✓				GRI 302 Energy 能源	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
2 Occupational Health and Safety 職業健康與安全	✓	✓	✓					✓		GRI 403 Occupational Health and Safety 職業安全衛生	3 GOOD HEALTH AND WELL-BEING
3 Environmental Compliance 環保合規	✓	✓	✓	✓	✓	✓	✓	✓	✓	GRI 307 Environmental Compliance 有關環境保護的法規遵循	16 PEACE, JUSTICE AND STRONG INSTITUTIONS
4 Disaster and Emergency Planning and Response 災難及應急預案規劃	✓	✓	✓	✓	✓	✓		✓	✓	Disaster/Emergency Planning and Response (GRI Electric Utilities Sector Disclosures) 災難/緊急應變計劃 (GRI 電力行業披露)	3 GOOD HEALTH AND WELL-BEING
5 Technological R&D 科研及開發	✓	✓	✓	✓	✓	✓	✓	✓		Research and Development (GRI Electric Utilities Sector Disclosures) 科研及開發 (GRI 電力行業披露)	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
6 Waste Water and Waste Management 污水及廢棄物處理	✓	✓	✓	✓	✓	✓	✓	✓	✓	GRI 306 Effluents and Waste 廢污水和廢棄物	6 CLEAN WATER AND SANITATION
7 Economic Performance 經濟績效	✓	✓	✓	✓	✓	✓	✓	✓		GRI 201 Economic Performance 經濟績效	8 DECENT WORK AND ECONOMIC GROWTH
8 Social Compliance 社會合規	✓	✓	✓	✓	✓	✓	✓	✓	✓	GRI 419 Socioeconomic Compliance 社會經濟法規遵循	11 SUSTAINABLE CITIES AND COMMUNITIES
9 Materials and Resources Usage 物資及資源使用	✓	✓			✓	✓	✓	✓		GRI 301 Materials 物料	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
10 Employee Welfare 員工福利	✓	✓						✓	✓	GRI 401 Employment 勞僱關係	10 REDUCED INEQUALITIES, 16 PEACE, JUSTICE AND STRONG INSTITUTIONS
11 Participation of Local Communities 當地社區參與	✓	✓	✓	✓	✓			✓	✓	GRI 413 Local Communities 當地社區	11 SUSTAINABLE CITIES AND COMMUNITIES
12 Market Presence 市場地位	✓	✓	✓	✓	✓	✓	✓	✓		GRI 202 Market Presence 市場地位	16 PEACE, JUSTICE AND STRONG INSTITUTIONS

Stage
第三階段

3

Validation of Material Topics 驗證實質性議題

The prioritised material topics and boundaries were validated by Everbright International's senior management to ensure the rationality, balance and completeness of the Report. Following this process, our independent sustainability consultant reframed the material topics into GRI Topic-specific Standards for ease of reporting. The established systematic data collection and monitoring mechanisms managed by our specialists in the Operation Management Department ensures that all project companies provide accurate and comprehensive data on a regular basis.

光大國際的高級管理人員對優先排序的實質性議題及其邊界作驗證，以確保報告的合理性、平衡性及完整性。隨後，獨立顧問將實質性議題轉換為相應的GRI特定主題準則，方便作報告之用。運營部的專員透過系統式的數據收集和監測機制，確保所有項目公司定期提供準確、全面的可持續發展數據。

Stage
第四階段

4

Materiality Review 檢視實質性

Prior to the preparation of the Report, we reviewed the material topics and disclosure practices of previous reports, and collected stakeholders' opinions on Everbright International's sustainability performance in 2018 and Sustainability Report 2017 through stakeholder engagement survey. Regular materiality review allows stakeholders to participate in the sustainable development disclosure process comprehensively and is beneficial to the Group in accomplishing long-term sustainable development targets.

在準備本報告之前，我們對過往報告的實質性議題和披露工作進行了回顧，並通過持份者參與調查收集了持份者對光大國際於二零一八年度可持續發展表現及二零一七年可持續發展報告的意見。定期檢視實質性有助持份者更全面參與可持續發展的披露過程，同時有利於本集團實踐長遠的可持續發展目標。

Voices of Stakeholders

持份者心聲

Stakeholders' rating of the sustainability performance of Everbright International in 2018:
持份者對光大國際二零一八年可持續發展表現的評分：

9.4/10



Stakeholders' rating of Everbright International's Sustainability Report 2017:
持份者對光大國際二零一七年可持續發展報告的評分：

9.3/10

Is the engagement of Everbright International with its stakeholders adequate?
光大國際與持份者的聯繫是否足夠？

97%

Adequate
足夠



“The first Vietnam modernised waste-to-energy project is located in Can Tho.
I feel proud as a Can Tho-an.”

「越南第一座現代化的垃圾焚燒發電廠就在芹苴，作為芹苴人，我很自豪。」

Vietnamese Employee of Everbright International
光大國際越南員工



“As a member of the Standing Committee of Biomass Energy Council, Everbright Greentech proactively supports our activities and contributes to the sustainable development of agricultural and forestry biomass co-generation sector.”

「光大綠色環保是生物質能產業促進會常務理事單位，協會舉辦的一系列活動，光大綠色環保均積極支持參與，為農林生物質熱電行業的可持續發展做出了積極的貢獻。」

Biomass Energy Council
生物質能產業促進會



“Everbright International has been excellent at engaging with stakeholders. As long-term shareholders, we have been extremely happy with their work and we often use Everbright International as an example to other companies as the gold standard in stakeholder engagement.”

「光大國際一直在持份者參與方面做得非常出色。作為長期股東，我們對他們的工作極為滿意，並經常使用光大國際作為持份者參與的黃金標準，供其他公司參考。」

Investor
投資者

06

Upholding corporate integrity and
**FULFILLING ENVIRONMENTAL
RESPONSIBILITY**

以企業誠信為本，盡綠色治理之責



The Group adheres to the management principle of “People-Oriented, Pragmatism, Creativity and Systematic Management”, and achieves the greatest internal efficiency through the establishment of a well-structured management framework. The Group’s management convenes Management Decision Committee meeting every month to evaluate its operations and management, ensuring the sustainable development of the Group. We also strive to fully observe all relevant national and regional laws, regulations and standards, with an aim to minimise our business impacts on the environment and society.

Corporate Governance

Everbright International strives to maintain a high standard of corporate governance as it believes good corporate governance practices are increasingly important for maintaining and promoting the confidence of shareholders of the Company (the “Shareholders”), and are crucial for the development of the Group’s business and protection of the Shareholders’ interests.

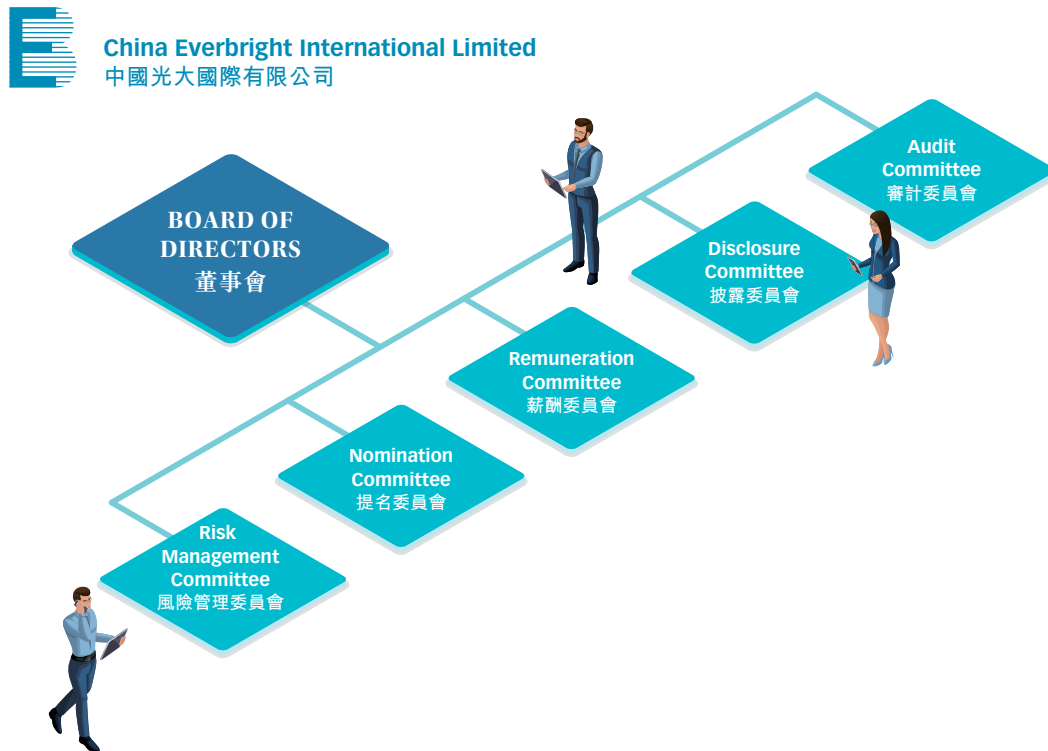
The Corporate Governance Code and Corporate Governance Report (the “CG Code”) set out in Appendix 14 to the Listing Rules have been duly adopted by the Board as the code on corporate governance practices of the Company. During the Reporting Period, the Company complied with all Code Provisions as set out in the CG Code, except that, with respect to Code Provision A.4.1, a non-executive Director was not appointed for a specific term during the period from 1 January 2018 to 15 March 2018. The Company will continue to commit itself to enhancing its corporate governance appropriate to the conduct and growth of its business, and from time to time, to reviewing its corporate governance practices to ensure the same comply with the CG Code and align with the latest developments.

本集團一直奉行「以人為本、求真務實、開拓創新、規範管理」的管理理念，並建立了完善的管理架構，以發揮內部最大效能。管理層按月召開管理決策委員會會議，對運營和管理情況進行審議，確保企業的可持續發展。我們並致力於全面遵守所有相關的國家和地方法例、規則和標準，盡可能減少業務對環境和社會的影響。

企業管治

光大國際致力維持高水準企業管治，相信良好企業管治對維持和提升本公司股東（「股東」）的信心日益重要，並以此為發展本集團業務及保障股東利益之關鍵。

本公司董事會已採納上市規則附錄十四所載的《企業管治守則及企業管治報告》（「《企業管治守則》」）作為本公司的企業管治常規守則。報告期內，本公司一直遵守《企業管治守則》所載所有守則條文，除於二零一八年一月一日至二零一八年三月十五日期間，一名非執行董事沒有按守則條文第A.4.1條規定獲委任指定的任期外。本公司將不斷提升其企業管治以配合其業務運作及增長，且不時審閱及評估其企業管治常規，確保遵守《企業管治守則》及切合最新發展形勢。



The Board and its Committees

As the highest management authority, the Board is responsible for directing and approving the overall strategies of the Group. The Board also serves as a collective leader to review the sustainable performance of the Group, assure the implementation and maintenance of effective risk management as well as audit control, and to secure the long-term benefits of the Group together with its Shareholders. As at the date of results announcement of the Company on 12 March 2019, the Board comprised 5 executive Directors and 4 independent non-executive Directors (the "INED(s)").

董事會及其委員會

董事會作為最高決策機關，負責制定及批准本集團的整體政策，並擔任全面領導，包括檢視本集團在可持續發展方面的表現，並確保落實和維持有效的風險管理及內部監控，以保障本集團及股東的長遠利益。於二零一九年三月十二日的本公司業績公告日，董事會由五名執行董事及四名獨立非執行董事組成。

The Board is responsible for performing the corporate governance duties as set out below:

1. to develop and review the Company's policies and practices on corporate governance and make recommendations;
2. to review and monitor the training and continuous professional development of Directors and senior management;
3. to review and monitor the Company's policies and practices on compliance with legal and regulatory requirements;
4. to develop, review and monitor the code of conduct and compliance manual (if any) applicable to employees and Directors; and
5. to review the Company's compliance with the CG Code and disclosure in the Corporate Governance Report.

董事會負責履行下述企業管治的職責：

1. 制定及檢討本公司的企業管治政策及常規，並提出建議；
2. 檢討及監察各董事及高級管理人員的培訓及持續專業發展；
3. 檢討及監察本公司在遵守法律及監管規定方面的政策及常規；
4. 制定、檢討及監察僱員及董事的操守準則及合規手冊（如有）；及
5. 檢討本公司遵守《企業管治守則》的情況及在《企業管治報告》內的披露。

The Board performed the above duties during the Reporting Period.

報告期內，董事會已履行上述職責。

The Board believes that the balance between executive Directors and INEDs is reasonable and adequate to provide sufficient balances that protect the interests of the Shareholders and the Group. INEDs provide the Group with diversified experience and professionalism. Their advices and views as well as participation in the Board and Board committee meetings bring independent view, advice and judgment on issues relating to the strategy and development, business operation and performance, risk control, conflict of interests, etc., to ensure the Shareholders' interests are taken into consideration. The position of the Chairman of the Board and the Chief Executive Officer are held by separate individuals, with a view to maintain an effective segregation of duties between the management of the Board and the day-to-day management of the Group's business and operation.

董事會認為執行董事及獨立非執行董事組合之比例合理及適當，足以充分保障股東及本集團之利益。獨立非執行董事為本集團帶來多元化的經驗及專業知識。他們提出的提議及意見，以及透過彼等參與董事會及各個董事會委員會會議，為本集團的策略及發展、業務運營及表現、風險監控及利益衝突等事宜上，提供獨立意見、提議及判斷，以確保股東之權益均獲得考慮。董事會主席及行政總裁之職務亦由不同人仕擔任，使董事會運作及集團業務以及運營之日常管理得以有效區分。

Apart from meeting the independence guidelines set out in Rule 3.13 of the Listing Rules, we confirm that each of the independent non-executive Directors: (1) has not been employed by the Company in an executive capacity within the past 5 years; (2) has not been a partner or employee of the Company's outside auditor during the past 3 years; (3) is not a family member of an individual who is, or during the past 3 years was employed by the Company or by any parent or subsidiary of the Company as an executive officer; (4) has no conflict of interest that the Board itself determines to mean they cannot be considered independent.

除符合上市規則第3.13條所載之獨立性指引外，我們確認各獨立非執行董事：（一）在過去五年內未曾以行政人員身份受僱於本公司；（二）在過去三年內未曾受僱於本公司外部核數師或出任其合夥人；（三）沒有家屬在過去三年內以行政人員身份受僱於本公司或其任何母公司或附屬公司；（四）沒有任何本董事會認為會影響其獨立性的利益衝突。

As an integral part of good corporate governance, the Board has established the following 5 Board committees with specific written terms of reference which deal clearly with their respective authority and duties:

為確保優良的企業管治，董事會成立了以下的五個董事會委員會，並書面訂明各董事會委員會之具體職權範圍，清楚說明其各自之職權及職責：

Committees 委員會	Function 職責
Audit Committee 審核委員會	Reviewing the Group's financial reporting process, risk management and internal control systems, internal and external audit and such other financial and accounting matters of the Group, etc. The terms of reference of the Audit Committee are available on the websites of the Company and Hong Kong Exchanges and Clearing Limited ("HKEX"). 審閱本集團財務匯報程序、風險管理及內部監控系統、對內和外部審計及本集團任何其他財務和會計事宜等。有關審核委員會的職權範圍已於本公司及香港交易及結算所有限公司（「港交所」）網站公開。
Risk Management Committee 風險管理委員會	Providing oversight of the Company's risk management programmes, and reviewing the effectiveness of the management's processes in identifying, assessing, mitigating and monitoring enterprise-wide risks. The terms of reference of the Risk Management Committee had been established in writing. 監管本公司的風險管理程序和負責審核管理層就企業全面風險識別、評估、緩解、監控程序的有效性。風險管理委員會設有書面的職權範圍。
Nomination Committee 提名委員會	Reviewing annually the structure, size and composition (including the skills, knowledge and experience) of the Board, reviewing and reporting the Board diversity to the Board, assessing the independence of the INEDs, making recommendations to the Board, by taking into account the Board Diversity Policy and the Nomination Policy, on appointment or re-appointment or re-designation of Directors and assessing the qualifications and competencies of the candidates, so as to ensure that all nominations are fair and transparent. The terms of reference of the Nomination Committee are available on the websites of the Company and HKEX. 每年檢討董事會的架構、人數及組成（包括技能、知識及經驗方面），檢視及向董事會報告董事會成員的多元化事宜，評核獨立非執行董事的獨立性，以及根據《董事會多元化政策》及《提名政策》就董事的委任或重新委任或調任向董事會提出建議，評估候選人的資格及能力，以確保所有提名均屬公正和具透明度。有關提名委員會的職權範圍已於本公司及港交所網站公開。
Remuneration Committee 薪酬委員會	The terms of reference of the Remuneration Committee, which are available on the websites of the Company and HKEX, set out the duties of the Remuneration Committee, including but not limited to determining, with delegated responsibilities by the Board, the remuneration packages of the individual executive Directors and senior management. 有關薪酬委員會的職權範圍已於本公司及港交所網站公開，該職權範圍載列薪酬委員會的職責包括（但不限於）在獲董事會轉授責任下釐定個別執行董事及高級管理層的薪酬待遇。
Disclosure Committee 披露委員會	The Board has delegated the day-to-day execution of its continuous disclosure obligations to the Disclosure Committee to ensure the compliance of the Company with its disclosure obligations. The terms of reference of the Disclosure Committee had been established in writing. 董事會已授權披露委員會負責持續披露責任的日常執行工作以確保本公司遵守披露責任。披露委員會設有書面的職權範圍。

Annual Remuneration and Ratio in 2018

二零一八年年度總薪酬及比例數據

Indicator 指標	2018 二零一八年
Total remuneration of the highest-paid individual (CEO) (HK\$) 最高薪人士（行政總裁）的薪酬總額（港幣元）	7,174,400.00
The median of the total remuneration of all employees (excluding the highest-paid individual) (HK\$) 全體員工薪酬總額的中位數（不包括最高薪人士）（港幣元）	90,215.48
Ratio of the total remuneration of the highest-paid individual to the median total remuneration of all employees (excluding the highest-paid individual) 最高薪人士的薪酬總額與全體員工（不包括最高薪人士）薪酬總額的中位數的比例	79.53:1
Ratio of the annual percentage increase in total remuneration of the highest-paid individual to the median percentage increase in annual total remuneration of all employees (excluding the highest-paid individual) 最高薪人士薪酬總額的年度百分比增長與全體員工（不包括最高薪人士）薪酬總額中位數的年度百分比增長的比例	4.37:1

The annual discretionary bonuses of individual executive Directors and senior management are mainly determined by the profit from operating activities and the profit attributable to equity holders of the Company within the year. Details of the Directors' remuneration information can be found in the Company's Annual Report 2018.

個別執行董事及高級管理人員每年的酌情花紅主要以本公司當年經營活動所得盈利及本公司權益持有人應佔盈利而釐定。有關各董事的薪酬資料，可參閱本公司的二零一八年年報。

Board Diversity

The Board Diversity Policy of the Company sets out the approach on diversity of the Board.

The Board recognises the importance of having a diverse Board in enhancing the Board's effectiveness and corporate governance. A diverse Board includes and makes good use of differences in the skills, industry knowledge and experience, education, background and other qualities of the Directors and does not discriminate on the grounds of race, age, gender, culture or religious belief. These differences were taken into account in determining the optimal composition of the Board and when possible should be balanced appropriately.

The Nomination Committee has responsibility for identifying and nominating candidates for approval by the Board. It takes responsibility in assessing the appropriate mix of gender, age (18 years or above), culture, experience, expertise, skills and diversity required on the Board and assessing the extent to which the required skills are represented on the Board and overseeing the Board succession. The Nomination Committee is also responsible for reviewing and reporting to the Board in relation to Board diversity.

董事會成員多元化

本公司的《董事會成員多元化政策》為董事會成員的多元化訂立了方向。

董事會明白一個多元化的董事會對於提高董事會效益及企業管治的重要性。多元化的董事會包括以及善用董事的不同技能、行業知識和經驗、教育、背景和其他素質，而不會產生基於種族、年齡、性別、文化或宗教的歧視。本公司在決定最佳董事會組合時會考慮該等因素，並盡可能取得適當的平衡。

提名委員會負責物色及提名董事候選人予董事會批准；負責評估董事會所需的適當性別、年齡（十八歲或以上）、文化、經驗、專業知識和技能的組合和多元化因素；以及監督董事會的繼任。提名委員會亦負責檢視及向董事會報告有關董事會成員的多元化事宜。

Board appointments will be based on merits of the candidates and other objective criteria, having due regard for the benefits of diversity on the Board. Selection of candidates to join the Board will be, in part, dependent on the pool of candidates with the necessary knowledge, experience, skills, educational background and other qualities. The final decision will be based on the chosen candidate's merits and contributions that he/she will bring to the Board. The Board considers that board diversity is a vital asset to the Company.

Training for Directors

Each newly appointed Director receives an induction training package covering the statutory and regulatory obligation of a director of a listed company. The Company continuously updates Directors with the latest developments and amendments to the Listing Rules and other applicable regulatory requirements, and provides trainings to develop and refresh the Directors' knowledge and skills. Moreover, the Company provided Directors with monthly updates on the performance, position and prospects of the Company. The Company also provided Directors with monthly analysis report on the Company's stock price performance and monthly journal of the Company.

Directors are encouraged to participate in continuing professional development to develop and refresh their knowledge and skills as Directors. The Company has prepared a training record in order to assist the Directors in recording the training that they have undertaken. In 2018, the Company organised training for Directors on the update of the Listing Rules on the corporate governance matters. Individual Director had also attended seminars and/or conferences or forums relevant to his profession and duties as Directors. The Company also arranged project site visits for the Directors.

For details of the Everbright International's corporate governance and the Board, please refer to Annual Report 2018.

董事的任命將根據候選人的優點及其他客觀標準作出，充分考慮該等因素對於董事會成員多元化的好處。甄選候選人加入董事會時，會按照候選人有否具備所需的知識、經驗、技能、教育背景及其他素質來考慮。最終的決定將會取決於候選人的優點和其將會為董事會作出的貢獻。董事會認為董事會成員的多元化，對於公司企業是一項重要的資產。

董事培訓

每名新委任的董事將獲得就任培訓，內容包括上市公司董事在法規及監管規定上之責任的資料。本公司持續向董事提供有關《上市規則》和其他適用監管規定之最新發展概況，並提供培訓以發展及更新董事的知識和技能。此外，本公司向董事提供有關本公司表現、狀況及前景的每月更新資料。本公司亦向董事每月提供有關本公司股價表現的分析報告，以及月刊。

本公司鼓勵董事參加持續專業發展，以發展並更新董事的知識和技能。本公司已備有培訓記錄，以協助董事記錄所接受的培訓。二零一八年，本公司為董事舉辦有關《上市規則》企業管治相關規則更新之培訓。個別董事還參加了有關其專業和董事職務的培訓課程及／或會議或論壇。本公司亦安排董事到本公司項目現場考察。

有關光大國際企業管治和董事會的其他詳情，請參閱二零一八年年報。

Sustainable Development Management

Sustainable Development Policies and System

The Group pays close attention to the operational impacts brought to the environment and society. An Environmental and Social Management System (“ESMS”) has been established in accordance with the Safeguard Policy Statement of the Asian Development Bank (“ADB”) and other international best practices. The ESMS covers the entire cycle of projects from early-stage planning and design till the final-stage operation and management, with specific requirements in place in relation to environmental and social screening and categorisation, resettlement, indigenous peoples, environmental impact assessment, information disclosure, consultation and participation, gender equality, grievance redress, due diligence and review, and monitoring and reporting. The system ensures the Group’s activities comply with the up-to-date environmental and social safeguard principles and requirements internationally.

To enhance integration effectiveness between system requirements and practical operations, and to manage the entire process of environmental and social management work, we fully implemented the Environmental, Safety, Health and Social Responsibility (“ESHS”) Management System (“ESHS Management System”) in 2016. The system comprises management standards to provide procedural guidelines on issues identification, auditing, incident investigation and reporting, work injury treatment and contractor ESHS management. Implementation of the system has not only promoted sustainable development within the Group, but also extended its safety culture and policies to the supply chain. During the Reporting Period, the Group continued to enhance the implementation of ESHS Management System to the entire organisation to achieve standardisation in project investment, construction and operational management, which promotes overall operational efficiency and effectiveness. As at year end 2018, the Group completed the formulation of a total of 132 standard workflows of high risk issues and their corresponding checklists.

The Group reviews its sustainable development policies with the Board and senior management regularly, and revises the policies when material risks to people and environment are identified.

可持續發展管理

可持續發展政策和體系

本集團高度重視自身運營所帶來的環境與社會影響，並已根據亞洲開發銀行（「亞發行」）的《保障政策聲明》及國際最佳範例編寫了一套《環境與社會管理制度》。《環境與社會管理制度》涵蓋由前期項目規劃到最終項目運營的項目全週期管理，詳細要求涉及環境和社會篩選和分類、搬遷安置、原住民、環境影響評價、信息披露、協商和參與、性別平等、盡職調查和審查，及監測和報告等範疇。此制度確保本集團的活動能滿足國際上對環境及社會的保障原則和要求。

為進一步加強制度要求和運營實踐的有效結合，實現對環境與社會管理工作的全過程管理，我們於二零一六年全面實施環境、安全、健康及社會責任（「ESHS」）管理體系（「ESHS管理體系」），該體系包括議題識別、審核、事故調查及匯報、工傷處理及承包商ESHS管理方面等指導程序的管理標準，不僅促進集團內部的可持續發展，更將安全文化和政策延伸到本集團的供應鏈中。報告期內，本集團繼續推動ESHS管理體系在全組織內的實施，實現項目投資、建設及運營管理過程中各環節管理的規範化，促進整體運行效率和效益的提升。截至二零一八年底，本集團共完成了132個高風險議題的標準工作流程編制，並制定了對應的檢查表。

本集團定時與董事會和高級管理層檢視其可持續發展政策，並及時修訂對人和環境產生的重大風險。

Sustainable Development Management Framework

The Board is responsible for reviewing and supervising the plans, activities and performance of corporate sustainability. The Group established an ESHS Management Committee led by the Chief Executive Officer under Everbright International's Risk Management Committee, which provides practical guidelines and support to the Group's sustainable development work to ensure thorough implementation of the Group's sustainable development management policies in a top-down manner.

Group level 集團層面

ESHS Management Committee ESHS管理委員會

Responsible for formulating, monitoring, and reviewing the Group's vision, strategy and policies on sustainable development; monitor the implementation of the ESHS Management System

負責制訂、監察和檢討集團的可持續發展願景、策略及政策、監督ESHS管理體系的實施等

Business sector level 業務板塊層面

Operation and Environmental Management Department 運營及環境管理部

An operation and environmental management department is established in all 7 business sectors, responsible for overseeing the sustainability performance of its own business sector

七大業務板塊均設有運營及環境管理部，負責監督自身的可持續發展表現



可持續發展管理架構

董事會負責審視及監督企業可持續發展的計劃、活動及表現。本集團更於風險管理委員會下成立了由行政總裁牽頭的光大國際ESHS管理委員會，為企業的可持續發展工作提供實質的領導和支持，確保集團的可持續發展管理政策由上至下得以貫徹實施。

Group level 集團層面

Safety and Environmental Management Department 安全與環境管理部

Assist in formulating and reviewing the Group's sustainable development policies, responsible for overseeing the sustainability performance of each business sector as well as the Group

協助制訂和檢討集團的可持續發展策略，負責監察各業務板塊及集團整體的可持續發展表現

Project company level 項目公司層面

ESHS Department/Specialist 安環部門/安環專工

ESHS department/specialist is established in all projects under construction and in operation, responsible for implementing the sustainable development plan and monitoring the sustainability performance of the project

所有在建及運營項目均設有安環部門/安環專工，負責落實可持續發展計劃及監督項目的可持續發展表現

Risk Management

The Group is committed to building a sound risk management system and develops the risk management model of "Integration of Policy, Procedure and System with Risk-oriented" to strengthen management and control risk more comprehensively. The Risk Management Committee under the Board takes accountability on risk management, and reviews the corporate risk management and internal controls at least twice a year. The Risk Management Department of the Group is responsible for the implementation of the Risk Management System and evaluation of internal control and evaluates the effectiveness of the risk management and internal control systems through on-site assessment and risk information collection, etc.

風險管理

本集團推行「以風險為導向、以制度為基礎、以流程為紐帶、以系統為抓手」的風險管理模式，全面強化管理和控制風險。董事會轄下風險管理委員會對風險管理工作負責，每年不少於兩次對企業風險管理和內部監控情況進行檢討。本集團風險管理部則負責風險管理體系落實和內部監控評估工作，通過現場風險調研、風險資訊收集等方式，評估風險管理和內部監控系統的有效性。

The objectives of Everbright International's risk management are described as follows:

- Balance between business development and risk tolerance to control risk at a level that is commensurate with overall objectives, and to ensure thorough implementation of relevant regulations as well as material measures with strategic and operational targets;
- Assure operational compliance, including relevant laws, regulations and stipulations of environmental sector;
- Ensure effectiveness of operational management, improve operational effectiveness and results;
- Improve internal control system and process to develop a scientific, reasonable decision making, executing and monitoring mechanism;
- Ensure valid, reliable internal and external communication;
- Establish a sound risk management concept and create risk management culture to widely circulate risk management consciousness among all employees in the Group.

光大國際風險管理的具體目標如下：

- 促進業務發展與風險承受能力的平衡，將風險控制在與總體目標相適應並可承受的範圍內，確保有關規章制度和為實現戰略及運營目標而採取重大措施的貫徹執行；
- 保證運營的合規性，即遵守有關法律、法規及環保行業相關規定；
- 確保運營管理的有效性，提高運營活動的效率和效果；
- 完善內部監控制度和流程，形成科學、合理的決策機制、執行機制和監督機制；
- 確保內外部信息溝通的真實、可靠；
- 形成正確的風險管理理念，營造風險管理文化氛圍，使風險管理意識在集團內部廣泛分享，並能擴展到所有員工。

A Risk Management Organisation System, comprising three lines of defence, is developed to achieve step-by-step risk management:

我們建立了三道防線風險管理組織體系，實現風險的逐級管理：

1

First line of defence (Business Sectors, Regional Centres and Project Companies)
第一道防線（各業務板塊、區域中心和項目公司）



Responsible for continuous identification, assessment, monitoring and report of risks and opportunities, report emerging external risks and plan for risk management measures.
負責對風險和機遇進行持續識別、評估、監控及匯報，上報新興外在風險，籌劃風險管理及採取的措施。

2

Second line of defence (Everbright International's Risk Management Department, Functional Departments and Business Sectors' Risk Management Departments)
第二道防線（光大國際風險管理部，各職能部門和各業務板塊風險管理部）



Responsible for regular risk assessment and matching material risks with strategic plans, report material risks to Management Decision Committee and the Board for assessment.
負責定期審閱並將關鍵風險與戰略計劃相配，上報關鍵風險供管理決策委員會和董事會進行審閱。

3

Third line of defense (Internal Audit Department)
第三道防線（內部審計部）



Responsible for securing the effectiveness of risk management measures by regular and ad hoc assessment of implementation of Risk Management System.
負責通過定期及不定期審核，檢討風險管理體系落實情況，為管理風險措施的有效性提供保證。

In 2018, the Group announced annual risk management instructions in accordance with the Risk Management Policy and the Risk Management Practice Handbook, as well as detailed work flow and specific implementation requirements of risk management and internal control, which enhanced supervision and inspection mechanism of risk management and internal control. The Group also improved the risk factor list and risk impact assessment criteria during the year, and conducted internal control evaluation from company level, business level and information system level, etc. to improve the effectiveness of internal control. The Group paid high attention to risk awareness and improvement of risk management ability, carried out different forms of risk management trainings, enhanced on site risk inspection and special inspection, improved standardisation of risk management within the year.

With respect to procedures and internal controls for the handling and dissemination of inside information, the Group has established a Disclosure Committee and the Board has delegated the day-to-day execution of its continuous disclosure obligations to the Disclosure Committee. Moreover, the Group has formulated the Inside Information Reporting Policy to ensure that potential inside information can be promptly identified, assessed and escalated, if necessary, for the attention of the Disclosure Committee and/or the Board to decide about the need for disclosure.

二零一八年，本集團根據《風險管理制度》和《風險管理手冊》的要求下發了年度風險管理工作指導意見，以及風險管理與內部監控的詳細工作流程和具體執行要求，以提高風險管理與內部監控監督檢查機制。本集團亦於年內完善了風險要素清單和風險影響程度評估標準，並從集團層面、業務層面、信息系統層面等開展內部監控評估工作，提升內部監控的有效性。本集團高度重視風險意識和風險管理能力的提升，年內開展多種形式的風險管理培訓，強化風險現場核查和專項檢查工作，提升風險管理的標準化水平。

有關處理及發布內幕消息的程序和內部監控，本集團設有披露委員會，由董事會授權負責持續披露責任的日常執行工作。此外，本集團制定了《內幕消息報告政策》以確保潛在的內幕消息及時得以識別、評估及在必要時反映至披露委員會及／或董事會，以便決定是否需要作出披露。

In order to improve overall risk management on investment projects, the Group has established the Project Advisory Committee by integrating the former Investment Project Risk Management Advisory Committee, the Engineering and Technology Management Committee, and the Overseas Project Advisory Panel. Through the combined efforts of the Project Advisory Committee, the Tender Management Committee and the ESHS Management Committee to enhance the risk management of investment projects in advance and in process. After integration, the Group will continue to impose stringent requirements on environmental project investment, construction and operation for risk prevention through Project Advisory Committee, Tender Management Committee and ESHS Management Committee.

Annual Risk Assessment

In 2018, the Group continuously implemented relevant work of the Risk Management System. The principal risks faced by the Group during the year were adequately identified and assessed according to the requirements of Risk Management Policy and Risk Management Practice Handbook. Risk evaluation for 2018 was officially commenced in March. Each department, sector and project company held self-assessment. The Risk Management Department analysed and evaluated the consolidated data to formulate assessment outcome.

The principal risks in 2018 included environmental compliance risk, policy changing risk, construction project management risk, accounts receivable risk, not-in-my-backyard risk, raw material supply risk, market competitive risk, staff management risk, financing management risk and overseas market risk. Based on the results of risk assessment, the Group formulated and implemented effective control measures, resulting in the downward trend in the risk level of most of its principal risks. However, owing to external uncontrollable factors and multiplicity of risk, the risk level of environmental compliance risk, policy changing risk and accounts receivable risk remained unchanged.

For details on the principal risks in 2018, please refer to the Annual Report 2018.

本集團為了加強對投資項目的整體管控，將原有的「投資項目風險評審委員會」、「工程技術管理委員會」和「海外業務項目評審小組」進行整合，統一成立「項目評審委員會」，以強化投資項目的事前及事中的風險管理。整合後，本集團繼續通過項目評審委員會、招標管理委員會和ESHS管理委員會等的工作，對環保項目的投資、建造、運營實施嚴格要求，防範風險。

年度風險評估

二零一八年，本集團持續推進風險管理體系相關工作，基於《風險管理制度》和《風險管理手冊》要求，對本集團面臨的年度主要風險進行識別和評估。二零一八年風險評估工作於三月正式啟動，由各部門、各板塊、各項目公司開展風險自評工作，風險管理部基於匯總結果進行分析和評估，形成評估結果。

二零一八年度的主要風險分別是環境合規風險、政策變動風險、工程管理風險、應收賬款風險、鄰避效應風險、原材料供應風險、市場競爭風險、員工管理風險、融資管理風險及海外市場風險。針對各項風險，我們已開展了具體的管控措施，大部份主要風險等級為下降趨勢，但由於外部不可控因素和風險自身的多樣性，環境合規風險、政策變動風險和應收賬款風險的等級不變。

關於二零一八年度重大風險的詳細資料，請參閱二零一八年年報。

Cultivating Risk Management Culture

In order to promote the establishment of a systematic, standardised and efficient Risk Management System, Everbright International strives to cultivate and shape a sound risk awareness and risk management culture, integrating risk management culture building into strategic development. Through learning from various risk case studies and trainings on guidelines and procedures of the Group, we help employees build a rightful risk management concept. This in turn would become a shared knowledge and conscious action among employees. The Group proactively incorporates risk awareness and risk management requirements into employee training. All personnel are provided with regular risk management training before and after work as a guide to follow good code of conduct and ethics, and apply such awareness in their work.

In addition, the Privacy Policy of the Group sets out the scope, standards, and procedures for employees and suppliers to handle customer information in a secured manner. The Group also requires all parties to respect intellectual property rights by outlining the clauses in the policy.

Supplier Management

In addition to internal risk control, the Group has extended our excellent ESHS management to the entire value chain. We have set a fair and transparent code for the selection and management of suppliers and contractors. The Supplier Management Measures established by the Group since 2015 has strengthened the management of suppliers and has ensured their products and services meet the Group's requirements on quality and sustainability. The management methods has covered topics on division of responsibilities, rank and evaluation of suppliers, development of new suppliers, dynamic management of suppliers, management of unqualified suppliers, and punishment on misconduct. It covers equipment, main materials, construction units, design units, operation centers and other suppliers.

We have conducted evaluation on suppliers on a regular basis. Suppliers are categorised into four classes, A to D, based on their professional standards, financial status and compliance records. Suppliers with the lowest class that fail to provide evidence that it is capable of fulfilling the requirements of the Group will be removed from the list. In addition, our Tender Management Measures, Management Measures for Appraisal Expert Database for Project Construction Procurement, Contractor ESHS Management Standard and Supplier Code of Conduct have further improved business partners' sustainability performance.

培養風險管理文化

為促進企業建立系統、規範、高效的風險管理體系，光大國際致力培育和塑造良好的風險意識與風險管理文化，將風險管理文化建設作為發展戰略的組成部份。透過各類風險案例教育和集團制度流程培訓，我們為員工樹立正確的風險管理理念，從而將風險管理意識轉化為員工的共同認識和自覺行動。在員工培訓方面，本集團積極納入風險意識和風險管理要求的元素，對全體人員進行崗前和上崗後的持續性風險管理培訓，引導員工遵循良好的行為準則和道德規範，並將這種意識運用到工作當中。

此外，本集團的《私隱政策》清楚列明員工及供應商在處理客戶私隱及資料時的範圍、標準及程序以確保客戶的資料受到保護。此外，該政策亦包含了防止侵犯版權的條款，務求各方尊重知識產權。

供應商管理

除了內部風險監控，本集團更將我們優秀的 ESHS 管理延伸到整條價值鏈。我們為供應商及承包商的選擇及管理訂立了公正和透明的守則。自二零一五年起，我們發佈了《供應商管理辦法》以加強供應商管理工作，確保其產品和服務符合本集團在質量和可持續發展方面的要求。該管理辦法包括職責分工、供應商等級及評價、新供應商的開發、供應商動態管理、不合格供應商的管理和違規處罰等，涵蓋設備、主材料、施工單位、設計單位、運營中心及其他供應商。

我們對供應商進行定期評估，將他們劃分為 A 至 D 四個等級，準則包括供應商的專業水平、財務狀況及合規記錄等，而等級最低的供應商若未能證明能夠達到本集團的要求，我們將會終止與其的合作。除此以外，我們的《招標管理辦法》、《工程建設採購評審專家庫管理辦法》及《承包商 ESHS 管理標準》及《供應商行為準則》等進一步引領業務夥伴應提升其可持續發展表現。

Supplier Code of Conduct

The Group's Supplier Code of Conduct systematically regulates suppliers' economic, environmental and social behaviours while encouraging our suppliers to treat their suppliers with the same standards and improve the sustainability of the overall supply chain. All suppliers are required to comply with this code during their course of business with the Group or participation in any events related to the Group.

Key Points of the Supplier Code of Conduct

供應商行為準則

本集團的《供應商行為準則》以系統地規範供應商在經濟、環境及社會領域的行為，同時更鼓勵我們的供應商以相同的標準對待他們的供應商，以提升整體供應鏈的可持續性。所有供應商在與本集團進行業務來往或參與任何與本集團有關的活動時都應遵守此準則。

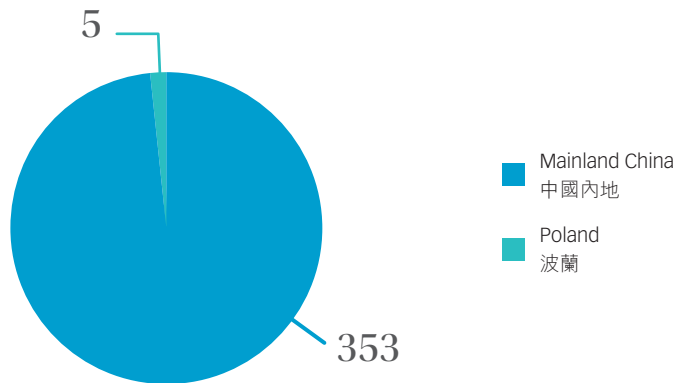
供應商行為守則要點

Economic	Our Suppliers are required to ensure their business should be done from an ethical standpoint and operate with integrity and honesty.
經濟	我們規定供應商業務的進行應從道德觀點出發，以誠信務實的態度進行經營。
Environmental	Suppliers should minimise any negative environmental impact in their operation, enhance monitoring and control, and pay attention to environmental issues.
環境	我們要求供應商在其運營中盡量減少對環境的負面影響，加大監控力度，關注環境問題。
Social	We expect suppliers to comply with relevant national labour policies and regulations, including avoiding any slavery, forced labour, bonded labour, child labour and abuse, to protect the basic human rights of employees, and to consider public welfare.
社會	我們期望供應商遵守國家的有關勞工政策和法規，當中包括避免任何奴役、強迫勞動、抵押勞工、使用童工及虐待行為，保護員工基本人權，並考慮公眾社會的福利。
Management System	We encourage suppliers to improve their management responsibilities, enhance corporate responsibility performance, and increase employees' training.
管理制度	我們鼓勵供應商改善管理職責，提升企業責任績效，加大員工培訓力度。

Major Suppliers Statistics in 2018

二零一八年主要供應商統計

Location of Major Suppliers
主要供應商所在地



Number of Outsourced Service Workers in 2018

二零一八年外判服務工人數目



3,164

Environmental monitoring
環境監測



6,199

Equipment maintenance
設備維修



1,849

Cleaning
清潔

Total
總數 12,483



1,002

Security
保安



269

Others
其他

Supplier Sustainability Risk Assessment

To further enhance the sustainability development of supply chain and master the ESHS performance of various categories of suppliers, the Group has commissioned independent consultant to conduct sustainability risk assessments for the Group's suppliers. In 2018, 58 suppliers, whose businesses cover electrical equipment, project construction, lifting machinery, pumping equipment, air system technology and water treatment equipment, were invited to the survey. The main scope of assessment includes the qualifications of suppliers in production, operation and safety, product quality, environmental and social management systems, etc.

The outcome of the sustainability risk assessment reflects the effectiveness of the Group's guidance and requirement on suppliers' ESHS performance over the years. None of the suppliers assessed were involved in commercial litigation and were not prosecuted or fined by relevant authorities on environmental issues. 79% of suppliers surveyed have occupational health and safety policies in place, and provided relevant training to employees. 98% of suppliers surveyed experienced no safety incidents in the past three years.

Suppliers participating in Supplier Sustainability Risk Assessment 2018 accounted for approximately 20% of the total contract value in 2018
參與二零一八年供應商可持續發展風險評估的供應商佔全年總採購金額約20%

供應商可持續發展風險評估

為進一步提升供應鏈可持續發展，瞭解各類型的供應商於ESHS方面的表現，本集團特意委任獨立顧問為供應商進行可持續發展風險評估。於二零一八年，我們邀請了58家供應商作問卷調查。供應商的業務涵蓋了電力設備、工程施工、起重機械、泵類設備、空氣系統技術、水處理設備等。評估的範圍主要包括供應商的生產、運營及安全方面的資質，以及產品質量、環境和社會方面的管理體系等。

本次可持續發展風險評估的結果體現了本集團多年來對供應商ESHS表現的引導和規範所作的努力逐漸取得成效。被評估的所有的供應商均沒有在進行中的商業訴訟，且沒有被有關部門就環境問題作出檢控或罰款。79%的受訪供應商制定了職業健康與安全政策，並為員工提供了相關培訓。98%的受訪供應商在過去三年沒有發生過安全事故。



To exercise more effective supplier management, we rate supplier sustainability risks with reference to the assessment results. In the evaluation this year, 90% of the suppliers belong to low risk, and the remaining are medium risk with no suppliers falling into the high risk category. We follow up with suppliers with higher risk level and provided suggestions that assist them improve sustainable development management and ensure effective risk control. In the future, we will continue to monitor the performance of suppliers and maintain close communication to facilitate sustainable development of supply chain.

為了對供應商進行更有效的管理，我們以評估結果為參考，對供應商可持續發展風險進行分級。在本次評估中，90%的供應商屬於低風險，其餘均屬於中風險，並沒有供應商落入高風險的類別。針對較高風險的供應商，我們會進一步瞭解情況，並提出建議以協助其改善可持續發展管理，確保其風險可被有效控制。在未來，我們會持續監察供應商的表現，保持雙方的緊密溝通，促進供應鏈的可持續發展。

Customer Satisfaction Survey

The Group is committed to integrating excellent customer service into its daily operation management, offering a cleaner environment and more efficient resource utilisation for the government and local communities. As one of the Group's short-term goals in sustainable development at the social level, we invited independent consultant to conduct an annual customer satisfaction survey during the Reporting Period. It aims to improve our communication channels with key stakeholders and understand customer's evaluation of our work to further enhance our service quality.



客戶滿意度調查

本集團致力於將卓越的客戶服務融入日常運營管理中，為政府和當地社區帶來更清潔的環境和更有效的資源利用模式。作為集團在社會層面的可持續發展短期目標之一，報告期內我們邀請了獨立顧問進行了年度客戶滿意度調查，旨在完善我們與重要持份者的溝通渠道，了解客戶對我們工作的評價，以進一步提升我們的服務品質。

Overall Customer Satisfaction Rate in 2018
二零一八年客戶整體滿意度

9.73/10

		Average score (out of 10) 平均分 (滿分10分)
Experience and Professionalism of Project Teams	項目團隊的經驗及專業程度	9.68
Environmental and Safety Health Risk Management	環境及安全健康風險管理	9.66
Outcome and Quality of Work	工作成果及質量	9.75
Effectiveness and Timeliness in Communication	有效和及時的溝通	9.83
Adherence to Agreed Project Schedules	遵守商定的項目進度	9.71
Overall Customer Satisfaction Rate	客戶整體滿意度	9.73
Percentage of Satisfied Customers (Customers rated Everbright's Performance with an Average score of 7 or above)	滿意客戶百分比 (給予光大國際表現 平均分7分或以上的客戶)	100%

A total of 94 valid questionnaires were collected in this survey. Majority of our customers highly recommend Everbright International and would be happy to work with the Group again.

是次調查共收集到94份有效問卷。絕大部份的客戶均表示非常願意推薦光大國際並樂意與本集團再次合作。

Satisfaction Rate of New Customers

The strong growth of the Group's market expansion each year is contributed from exploration of and our attention to new customers. Among the 94 customers surveyed, there were 53 customers who worked with us for the first time, accounting for 56.38% of the total customers surveyed. The satisfaction rate of all new customers is 8 or above; of which 81% of them gave us full mark. 84% of the first-time customers expressed their willingness in recommending us. These figures demonstrate the recognition of our services by our new customers. Among the 53 new customers, 52 of them expressed that they are more satisfied with our services compared to similar services with other companies, reflecting the Group's leading position in the industry.

Customers' affirmation drives us to move forward. In the future, we will continue to adhere to the customer-centric philosophy and maximise the added value of our projects.

新合作客戶的滿意度

本集團的市場拓展勢頭每年得以保持強勁的增長均有賴於我們對新客戶的開拓和重視。在94個受訪客戶中，首次與我們合作的客戶便有53人，佔總受訪客戶56.38%。所有新客戶滿意度均在8分或以上。當中，給予滿分的客戶佔81%。而在首次合作的客戶中，表示十分願意推薦我們的客戶佔84%。這些數據充分說明瞭新客戶對我們服務的認可。53位新客戶中有52位客戶表示與以往和提供類似服務的公司的合作經驗比較，對光大國際的服務更滿意，顯示了本集團在行業中的領先地位。

我們會把客戶對我們的肯定作為鞭策我們繼續前進的動力，在未來繼續秉承以客戶為中心的理念，最大程度發揮項目的附加價值。

07

Committed to creating
A MORE SUSTAINABLE ENVIRONMENT
致力環保產業，創造美好環境。



In 2018, with the incorporation of ecological conservation into the Constitution of the PRC and the establishment of the MEE, the central government has placed unprecedented effort in supervising environmental enterprises and introducing more stringent environmental monitoring and control through the modernisation of ecological conservation management system and capacities, signifying a new stage in ecological and environmental protection. As China's first one-stop integrated environmental solutions provider, we act for the ecological environment – we strive to deliver cleaner energy, a better environment, and improved health and well-being to our stakeholders.

Our Environmental Energy business helps reduce the adverse per capita environmental impact and preserve precious land resources of cities via green incineration of municipal household waste; our Greentech business improves air quality in rural areas by converting biomass raw materials such as agricultural and forestry waste into electricity and heat, hence avoid open burning of agricultural and forestry straw. Both businesses increase the share of renewable energy in China's energy mix, demonstrating Everbright International's dedication to the green energy era in China. On the other hand, our waste water treatment projects help solve the water quality and sanitation problems by effectively treating waste water following stringent national standards and producing high-quality recycled water for industrial use.



二零一八年，隨著生態文明正式寫入《中華人民共和國憲法》，國家組建生態環境部，推進生態文明建設治理體系與治理能力現代化，中央環保督察力度空前，對環保企業環境監管更加嚴厲，生態環境保護已顯然進入全新發展階段。作為中國首個一站式、全方位的環境綜合治理服務商，我們始終情繫生態環境，矢志為各持份者提供更清潔的能源及更佳的环境、健康和福祉。



我們的環保能源業務透過城市生活垃圾的綠色焚燒，協助減少人均環境影響及保存珍貴的土地資源；我們的綠色環保業務主要透過將農林廢棄物等生物質原材料轉換為電力和熱能，避免了農林秸稈的露天燃燒，從而改善農村地區空氣質量。這兩項業務增加了可再生能源在中國能源總量的比重，在中國綠色能源時代展現了光大國際的貢獻。另一方面，我們的污水處理項目嚴格按照國家標準有效處理污水，並生產高質量的工業回用水，以協助舒緩水質和衛生問題。

Everbright International's Environmental Achievements

光大國際達致的環保成就

Since the commissioning of the first environmental protection project in 2005
自二零零五年首個環保項目運行以來

提供綠色電力：
Green electricity supplied:

~29,101,801,000 kWh
千瓦時

所抵消的二氧化碳當量：
CO₂ equivalent emissions offset:

~35,325,000 tonnes
噸
equivalent to 3,783,234,000 trees planted
相等於種植樹木 3,783,234,000 株

處理生活垃圾：
Household waste processed:

~69,221,000 tonnes
噸

處理危廢及固廢：
Hazardous waste and solid waste processed:

~691,000 tonnes
噸

處理農林廢棄物：
Agricultural and forestry waste processed:

~7,295,000 tonnes
噸

處理污水：
Waste water treated:

~8,270,691,000 m³
立方米

處理滲濾液：
Leachate treated:

~13,933,000 m³
立方米

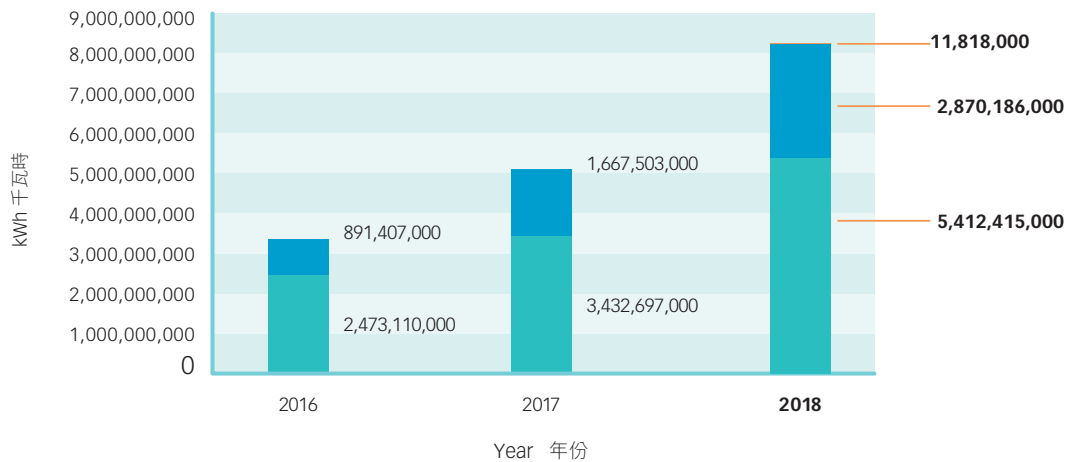
COD減排：
COD reduced:

~3,120,000 tonnes
噸





On-Grid Green Electricity Supplied by Business Sector
按業務板塊劃分的綠色上網電量



- Environmental Energy (Waste-to-energy)
環保能源 (垃圾發電)
- Greentech (Integrated Biomass Utilisation, Solar Energy and Wind Power)
綠色環保 (生物質綜合利用、光伏發電及風電)
- International Business (Waste-to-energy)
國際業務 (垃圾發電)

**CASE STORY**
個案分享**Co-Developing the First Waste-to-Energy Plant in Africa
with First-Class Environmental Technology**

以一流環保技術共同打造非洲第一座垃圾焚燒發電廠

The waste-to-energy project in Ethiopia, Africa, where Everbright International served as the EPC contractor for the manufacturing, supply and installation of the leachate treatment system, commenced operation in September 2018. This waste-to-energy project is the first application of the Group's self-developed and self-manufactured leachate treatment system in Africa. The project is also the first waste-to-energy project in Africa and the first Sino-Ethiopia joint project in environmental protection.

The Ethiopia waste-to-energy project is located in Addis Ababa, the capital of Ethiopia. It is developed with a waste processing capacity of 1,200 tonnes/day, comprising of 2 x 600 tonnes/day waste incineration furnaces and 2 x 25MW turbine power generators. The equipment-manufacturing arm of Everbright International stood out from the fierce competition, and was appointed to supply and install a 220 tonnes/day leachate treatment system. Prior to this, Everbright International had introduced its self-developed and self-manufactured grate furnaces to overseas markets including Vietnam. This project is another successful case of the Group on continuously pursuing development driven by technological innovation, exploring overseas business, and promoting sustainable development through technology export.

二零一八年九月，由光大國際提供滲濾液處理系統EPC總包工程的非洲埃塞俄比亞垃圾焚燒發電項目正式竣工投產。這不但是本集團自主研發生產的滲濾液處理系統首次應用於非洲，更是非洲第一座垃圾焚燒發電廠，也是第一個中國和埃塞俄比亞的環保合作項目。

埃塞俄比亞垃圾焚燒發電項目位於首都亞的斯亞貝巴市，垃圾處理規模1,200噸／日，項目配置2台600噸／日垃圾焚燒爐和2套25MW汽輪發電機組。光大國際的裝備製造團隊通過激烈的競爭，按委託方要求提供220噸／日滲濾液處理系統總承包工程。此前，光大國際自主研發製造的垃圾焚燒爐排爐裝備，已經出口至越南等海外市場。該項目是本集團持續推動技術創新與引領、通過技術輸出帶動海外業務與可持續發展又一成功案例。



CASE STORY
個案分享

Alleviating Plastic Waste Problems
Using Advanced Waste Incineration Technology
以先進垃圾焚燒技術解決塑料問題

Nowadays, plastic pollution is causing increasingly serious damage to the land and marine ecology, and even starting to threaten human's health. To tackle plastic pollution, it is urged to promote effective waste segregation and recycling, as well as implement long-term reduction of plastic use at source. However, China is still in its premature stage to recycle and reuse plastics effectively, and measures to deal with plastic waste has become a significant challenge. Due to the complex composition of plastic waste, not all of them could be classified and recycled. For instance, packaging made of light weight composite materials comprises multiple types of plastic and is nearly impractical to be separated. As a result, a large amount of plastic waste is sent to landfill for disposal, causing various environmental issues – chlorinated plastics release harmful substances and pollute the soil; plastic wastes may be brought out of the landfill by wind or birds, and affect the local ecology; plastic wastes embrittle, decompose and fragment into microplastics when exposed to sunlight for a prolonged period. These are subsequently brought to rivers or ocean through leachate and surface runoff, thus threatening the aquatic ecology.

如今，塑料污染為陸上和海洋生態帶來日益嚴重的破壞，甚至威脅到人類的健康。要根治塑料污染問題，需有效推行垃圾分類與回收，及至長遠落實源頭減塑。然而，目前我國塑料回收及再用的條件尚不成熟，如何處理塑料垃圾已成為一大難題—由於塑料垃圾的成分十分複雜，並不是所有的塑料垃圾都能分類回收再用，例如小型輕質複合材料包裝混合了多種塑料，幾乎無法進行分離。結果大量塑料垃圾被送往填埋場棄置，帶來各種環境問題—含氯的塑料會釋出有害的物質，污染土壤；塑料垃圾或會被風或雀鳥帶至場外，影響當地生態；塑料垃圾經過陽光長期照射，脆化、分解、破碎後會形成微型塑料，透過滲濾液或表面逕流被帶到河流或海洋中，威脅水體生態。



**CASE STORY**
個案分享**Alleviating Plastic Waste Problems
Using Advanced Waste Incineration Technology (Continued)**
以先進垃圾焚燒技術解決塑料問題（續）

In comparison, the plastic pollution mentioned above can be alleviated through incineration under stringent monitoring and control. In the past, the society is concerned about the health threat and air pollution induced by harmful gases generated during waste incineration. To effectively eliminate the residual environmental impacts of waste incineration, we prevent harmful emissions through advanced incineration and flue gas treatment technologies. In addition, we also install automatic flue gas monitoring equipment and set up real-time displays showing the emission and operation data. The online continuously monitored data are connected with the local Ecological Environment Bureau to facilitate external monitoring. Therefore, we are confident to process plastic waste by safe and harmless means.

Reducing plastic use is the top-priority solution in dealing with plastic waste in the long run. Although the society has placed significant effort on recycling plastics, the current recycling rate is far from adequate due to the aforementioned difficulties. At present, incineration is still the best practicable measure to handle plastics that are left after sorting or that cannot be classified.

相比之下，在一個嚴格管控的環境中進行垃圾焚燒則能減輕上述塑料污染。在過去，社會主要擔心垃圾焚燒所產生的有害氣體會威脅人體健康及帶來大氣污染。為了有效消除垃圾焚燒處理後的剩餘污染，我們透過先進的焚燒及煙氣處理技術，避免有害氣體排放。我們還安裝了自動煙氣監控設備，在廠內豎立污染排放和運營數據實時顯示屏，並將在線監測實時數據與當地生態環境局聯網，主動接受外部監督。因此，即使是塑料垃圾，我們也有信心對其進行安全的無害化處理。

應對塑料垃圾成患的問題，長遠而言，減少塑料使用仍然是首要的解決方法。儘管社會在回收塑料上作了大量努力，由於上述的種種困難，目前的回收率仍然遠遠不足。對於分類過後所剩的或者無法分類的塑料，目前最好的方法仍是垃圾焚燒。



Environmental Management Overview

Upholding the development philosophy of “Taking Quality as the Top Mission, Keeping Efficiency as the Priority, and Pursuing Growth in Business scale”, and operation philosophy of “Pursuing Excellence and Close to Zero Discharge”, the Group strictly applies the Corporate Policy on Environmental Management to all its projects. The policy covers six key areas, including compliance, risk management and due diligence, environmental protection, health and safety, supplier management as well as monitoring and communication. The policy, together with the Group’s ESMS and Operations Manual, aim to reduce the operational impacts to the environment and natural resources by providing clear guidelines on air and greenhouse gas emissions, discharges into water and land, generation of hazardous and non-hazardous waste, as well as the efficient use of energy, water and other raw materials.

The Group actively responds to and promotes ecological conservation. In order to enhance environmental management and to better support its rapid business growth and green development, the Group set up a leader’s team on environmental management which is mainly responsible for regulating, monitoring and supervising the implementation of environmental and safety measures in all business sectors. During the Reporting Period, the Group continued to enhance the implementation of ESHS Management System at all levels, and issued a number of procedural documents, namely Notice on Further Enhancing Environmental Management, Eliminating Operational Risk and Improving Operational Quality, Notice on Improving Relevant Information of Operating Projects Disclosed on the Online Environmental Monitoring Platform, Evaluation Method for Environmental Management, Internal Reporting System for Environmental and Safety Accidents and Incidents”. By these means, the Group successfully applied standardised management throughout project investment, construction and operation, improving overall operational efficiency and effectiveness. We also proactively promote ISO14001 Environmental Management System in our operating projects.

環境管理概覽

本集團堅持「質量第一、效益優先、規模發展」的發展理念，「精益求精、追求完美、近零排放、追求卓越」的經營理念，所有項目的環境管理嚴格執行《環境管理企業政策》。該政策涵蓋合規、風險管理和盡職調查、環境保護、健康和 safety、供應商管理以及監測和溝通六大重點。該政策連同本集團的《環境與社會管理制度》和《運營手冊》對運營所涉及的廢氣及溫室氣體排放、向水及土地的排污以及有害及無害廢棄物的產生，以及有效使用能源、水及其他原材料方面提供了明確的指引，致力減低本集團的運營對環境及天然資源造成的影響。

本集團積極回應和推進生態文明，為加強環境管理，更好地滿足業務高速發展和綠色發展，本集團成立環境管理工作領導小組，重點規範、監督、督導集團各業務板塊環境及安全工作的實施。報告期內，本集團繼續推動 ESHS 管理體系在全組織內的實施，並先後制定下發《關於進一步強化環境管理，化解運營風險，提升運營品質的通知》、《關於完善運營項目環保線上監控平台相關資訊的通知》、《環境管理考核辦法》、《環境、安全事件事件內部報告制度》等程序文件，促進了項目投資、建設及運營管理過程中各環節管理的規範化，加強了整體運行效率和成效。我們亦積極於運營項目內推行 ISO 14001 環境管理體系。

During the Reporting Period, the Group stepped up its risk management measures of “prevention in advance, control in process, and evaluation and follow-up afterwards”. Through assessment, evaluation and monitoring of operating projects’ environmental management performance, the Group has achieved continual improvement in environmental management. With “Technology Leads Development” as the driving force to step up its environmental management efforts, the Group accelerated the development of environmental information monitoring platform, shared platform and environmental testing platform. Through the application of internet, internet of things and informatisation technologies, the Group fully integrated data from different operating systems and set up a new corporate management model focusing on “Big Data Platform” and “Internet Plus”. The automatic combustion control system has been applied to 21 waste-to-energy projects, enabling them to achieve full automatic control of the waste incineration system, alleviating the operators’ workload and ensuring stable loading and outputs.

Through comprehensive environmental management policies and technologies, the Group spares no effort in achieving visibility, manageability, and controllability of all projects under construction and operation, with a aim to deliver superior performance in four aspects: factory appearance, odour management, noise control and emission indicators. The Group’s waste-to-energy projects in Suzhou, Nanjing, Wujiang, Changzhou, Changzhou Xinbei, Ningbo, Sanya, Boluo, Weifang and Rizhao were awarded the “National AAA-Rated Waste-to-Energy Plant”, signifying our unwavering pursuit in quality enhancement and environmental performance.

於報告期內，本集團強化「事前防範、事中控制、事後檢討及跟進」的風險管理措施。推行運營項目環境管理表現評價工作並對評估結果跟蹤督導，實現環境管理水平持續提升。「科技引領發展」繼續作為集團環境管理升級的核心動力，透過加快推進環境信息監控平台、共用平台及環境檢測平台建設，充分應用互聯網、物聯網、信息化技術，全面整合集成各個業務系統資料，建立公司「大數據平台」、「互聯網+」的管理新模式；垃圾焚燒智慧燃燒控制系統已經在二十一個垃圾發電項目上投入運行，實現了垃圾焚燒燃燒系統的全自動控制，既減輕操作人員的工作負荷，也能確保負荷輸出平穩。

透過全面的環境管理政策和技術，本集團努力實現所有建設和運營項目的可見、可管和可控，務求使我們的環保項目經得起看、經得起聞、經得起聽、經得起測。本集團的蘇州、南京、吳江、常州、常州新北、寧波、三亞、博羅、濰坊及日照等十個垃圾發電項目相繼獲得「國家AAA級生活垃圾焚燒廠」稱號，印證了我們對品質提升和環境表現的孜孜追求。

Emissions Management and Control

Air pollution and climate change have caused increasingly serious environmental problems. As a leading waste-to-energy operator, we play an important role in tackling air pollution and climate problems. In the Group's operations, it strives to ensure compliant emissions and the five "Firsts": the first to adopt the European Union Waste Incineration Directive 2000/76/EC ("Euro 2000 standards")⁽¹⁾ in developing waste-to-energy projects in China; the first to connect and share real-time project emission data with local environmental protection departments; the first to disclose online hourly average emission data of all operating waste-to-energy projects; the first to open up its operating waste-to-energy projects to welcome public supervision; and the first to open up environmental protection facilities across all business sectors to the public. As our projects' emission performance improves continuously, we wish to ease public concerns with concrete actions.

For emissions control, we strictly control stack emissions such as particulate matter, sulphur dioxide (SO₂) and nitrogen oxides (NO_x) in all combustion operations, by implementing stringent operational procedures with frequent inspection and extensive supervision. We also pay attention to the effective control of fugitive air emissions at our projects to prevent air pollution. Our waste-to-energy projects are designed and operated fully in compliance with the "Standard for Pollution Control on the Municipal Solid Waste Incineration" (GB18485-2014) as well as other requirements as set forth in the environmental impact assessment reports approved by the local government⁽²⁾, while the daily average values of online continuously monitored parameters are well below the respective emission limits as stipulated under the Euro 2010 standards; all of our biomass combustion operations meet the "Emission Standard of Air Pollutants for Thermal Power Plants" (GB13223-2011)⁽³⁾.

Notes:

- (1) The Waste Incineration Directive (2000/76/EC) was recast and became part of the Industrial Emissions Directive (2010/75/EU) since 2014.
- (2) Air pollutants regulated by relevant national laws and regulations mainly include dioxins, particulate matter, sulphur dioxide, nitrogen oxides, hydrogen chloride, carbon monoxide, mercury and other heavy metals (and its chemical compounds), odour pollutants.
- (3) Major air pollutants regulated by relevant national laws and regulations include particulate matter, sulphur dioxide, nitrogen oxides.

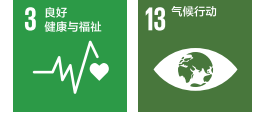
排放管理和控制

空氣污染和氣候變化引致的環境問題日趨嚴重。作為垃圾發電項目運營的領軍企業，我們在對抗空氣污染和氣候問題擔當重要角色。於運營中，本集團嚴格控制各項排放物達標排放以及五個「率先」：率先在國內推動採用歐盟《廢物焚燒指令》(2000/76/EC)⁽¹⁾；率先推行項目排放數據與當地環保部門在線聯網；率先對外披露所有運營垃圾發電項目煙氣在線監測小時均值；率先實行公眾開放活動，自願主動接受公眾及社會監督；及率先以公司整體名義向公眾開放。我們致力不斷提升項目的排放表現，以確切行動釋除公眾疑慮。

在排放控制方面，我們採納了嚴謹的操作程序、高頻率的檢查以及嚴謹的監督，嚴格控制所有燃燒運營的顆粒物、二氧化硫(SO₂)及氮氧化物(NO_x)等大氣污染物排放。我們亦特別關注項目無組織排放的有效控制，避免造成環境空氣污染。我們的垃圾發電項目的設計和運營完全符合所有適用的國家環境規例和標準，當中包括《生活垃圾焚燒污染控制標準》(GB18485-2014)及獲當地政府審批的環境影響評價報告中的其他要求⁽²⁾，而煙氣在線監測指標日均值更全面優於歐盟2010標準中的相關排放限值；生物質燃燒的運營則達《火電廠大氣污染物排放標準》(GB13223-2011)⁽³⁾。

附註：

- (1) 《廢物焚燒指令》(2000/76/EC)自二零一四年起被重新訂定為《工業排放指令》(2010/75/EU)的一部份。
- (2) 受相關國家法律及規例規管的大氣污染物主要包括二噁英、顆粒物、二氧化硫、氮氧化物、氯化氫、一氧化碳、汞和其他重金屬（及其化合物）、惡臭污染物。
- (3) 受相關國家法律及規例規管的大氣污染物主要包括顆粒物、二氧化硫、氮氧化物。



**CASE STORY**
個案分享**Industry Pioneer in PM2.5 Emissions Sampling and Analysis Research**
行內研究PM2.5排放採樣及分析先行者

In 2017, we initiated a research project on fine particulate matter (PM2.5) emissions at our waste-to-energy projects, making us a forerunner in the industry in monitoring waste-to-energy-related PM2.5 emissions in China. The objectives of the research were to develop tailored methodologies for the sampling and analysis of PM2.5 emissions applicable to the waste-to-energy industry in China, to estimate PM2.5 emissions from waste-to-energy plants on scientific grounds, and to understand the effect of emissions from waste-to-energy projects to the ambient PM2.5 levels in the projects' surrounding areas. As an enterprise to conduct research on PM2.5 emission characteristics in China prior to the development of any relevant industry standard and technological specification by the government, we set a benchmark as a truly environmentally responsible citizen with embracement of science and professionalism.

於二零一七年，我們自發開展了一個探究垃圾發電項目細顆粒物(PM2.5)排放的研究項目，成為中國行業內監測垃圾發電相關PM2.5排放的先行者。此研究旨在建立一套針對並適用於中國垃圾發電行業PM2.5排放量的採樣和分析方法，以科學依據推導出垃圾發電廠PM2.5排放的估算，並了解垃圾發電項目的排放對周圍地區PM2.5水平的影響。在政府尚未制訂相關行業標準及技術規範下，我們作為國內首間開展PM2.5排放特徵研究的企業，樹立了一個本著科學及專業精神、真正對環保負責的公民的典範。



We achieve emission reduction targets through “Technology Leads Development” solutions. During the Reporting Period, our flue gas recirculation technology developed by Envirotech was successfully applied to 12 waste-to-energy projects, including Shouguang Waste-to-energy Project, Zouping Waste-to-energy Project, Laiyang Waste-to-energy Project, etc. The Group has completed trials in multiple projects on phased combustion and flue gas recirculation technologies, and successfully maintained NO_x emissions under 100 mg/Nm³ to tie in with the tightening emissions requirements. Projects including Hangzhou Jiufeng Waste-to-energy Project have achieved ultra-low emissions that is beyond the Euro 2010 standards’ requirements by adopting an integrated process of “SNCR + Semi-Dry De-Acidification + Dry De-Acidification + Activated Carbon + Bag Filter + Low-Temperature SCR + Wet De-Acidification + GGH + Mist Elimination”. The process will be optimised in the future to reduce material consumption and enhance purification. Besides, following the full application of low-nitrogen combustion, flue gas recirculation, selective non-catalytic reduction (SNCR), denitrification and ozone oxidation developed by Everbright Greentech Research Institute in our integrated biomass utilisation projects, the combustion of biomass successfully achieved ultra-low emission (with NO_x emission concentration below 50 mg/m³). We will continue to enhance the level of scientific research and strive to lead the technological enhancement of China’s green technology industry.



「科技引領發展」是我們實現減排目標的另一重點。報告期內，由環境科技自主研發的煙氣再循環技術順利在壽光垃圾發電項目、鄒平垃圾發電項目及萊陽垃圾發電項目等12個項目推廣運用；通過應用分級燃燒、煙氣再循環等新技術，集團已在多個項目試驗成功，穩定將NO_x排放控制於100 mg/Nm³以內，滿足日益提高的排放要求。杭州九峰垃圾發電項目等項目採用「SNCR+半乾法脫酸+乾法脫酸+活性炭+布袋除塵器+低溫SCR+濕法脫酸+GGH+煙氣脫白」組合工藝，實現優於歐盟2010標準的超低排放；下一步將優化縮短工藝鏈，減少物料消耗，並不斷提升淨化效果。此外，由光大綠色環保研究所研發的低氮燃燒、煙氣再循環、選擇性非催化還原脫硝技術(SNCR)優化、活性分子氧化等技術於生物質綜合利用項目中得到全面推廣應用，生物質的燃燒實現了超淨排放(NO_x排放濃度低於50 mg/m³)，使我們的煙氣排放目標得以實現。我們將持續提升科研水平，致力引領中國綠色科技產業的技術升級。



We strive to ensure that people everywhere can conveniently access to our projects’ environmental performance information. During the Reporting Period, we maintained the initiative in timely disclosing emissions data and environmental management information of projects in Everbright International’s corporate website, including the ground-breaking measure of online hourly disclosure of average emissions data across all our operating waste-to-energy projects. We also devoted in perfecting the information sharing platforms which connects with our Hong Kong headquarters and Shenzhen representative office for real-time capture of project information to ensure compliant operation, and to report the performance of our high-quality projects to stakeholders of the Group in the promptest manner.

我們致力確保所有人都能隨時隨地掌握我們項目的環境表現信息。報告期內，我們繼續恪守主動對項目的排放數據和環境管理信息實施適時披露的舉措，包括於光大國際網站每小時更新所有運營垃圾發電項目的煙氣在線監測均值，創行業先河。我們還積極完善信息共享平台建設，旨在讓香港總部及深圳代表處實時掌握所有項目運營狀況，確保所有項目達標運營，及能迅速地向本集團持份者報告我們高品質項目的運營表現。

Air Emissions of Operating Projects in 2018

二零一八年運營項目煙氣排放量

Particular Matter 顆粒物	Sulphur Dioxide (SO ₂) 二氧化硫	Nitrogen Oxides (NO _x) 氮氧化物
275.82	1,497.44	7,993.22

Unit: Tonne

單位：噸

Note:

附註：

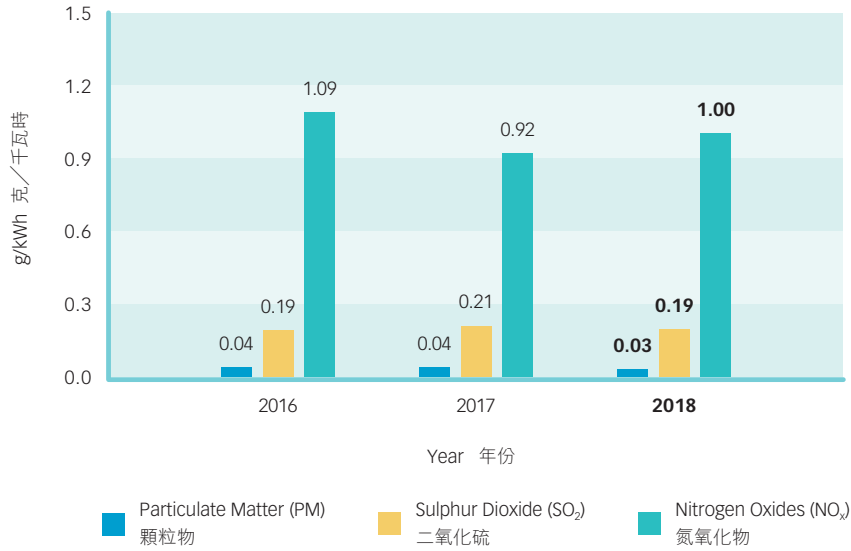
⁽¹⁾ Includes all projects of Environmental Energy and Greentech sectors that involve combustion and incineration operations.

⁽¹⁾ 包括環保能源及綠色環保板塊的所有燃燒和焚燒運營項目。

In addition, other air pollutants such as dioxins and various heavy metals are tested by Everbright International with frequencies beyond national requirements. For instance, the testing of dioxins has reached at least four times a year, which is significantly higher than the national requirement of once per year. Dioxins concentrations of all samples were substantially lower than the emissions limits of the "Standard for Pollution Control on the Municipal Solid Waste Incineration" (GB18485-2014). The emission monitoring reports of our waste-to-energy projects can be downloaded at the environmental information disclosure platform of Everbright International's website at www.ebchinaintl.com.

此外，光大國際對煙氣二噁英和各種重金屬等污染物均以高於國家的要求作更頻密的檢測，而當中煙氣二噁英的檢測頻率更達每年至少四次，遠高於國家每年一次的檢測要求，所有檢測樣本濃度均遠低於《生活垃圾焚燒污染控制標準》(GB18485-2014)中所列的限值。各垃圾發電項目的煙氣檢測報告可於光大國際網站環境信息披露平台(www.ebchinaintl.com)下載。

Air Emissions Per kWh of On-grid Green Electricity Supplied
每千瓦時綠色上網供電量的煙氣排放量



Note:

⁽¹⁾ Includes all power-generating integrated biomass utilisation projects and waste-to-energy projects in China and Vietnam.

Since 2015, we have been adopting calculation methodologies of CDM under the United Nations Framework Convention on Climate Change (“UNFCCC”) to estimate the GHG emissions of our operating projects as it is standardised, accurate, and internationally recognised. During the Reporting Period, we adopted the CDM methodology to estimate the CO₂ emissions offset by our operations for the first time. This methodology can better reflect our efforts on emission reduction by calculating the baseline emission without the presence of waste-to-energy and integrated biomass utilisation projects, covering fugitive methane emissions of waste in landfills and the use of fossil fuelled power. As our data collection and reporting mechanism are becoming more refined, we will continue to refine our GHG emissions calculation method for all business sectors, allowing the stakeholders to better understand our efforts on emission reduction.

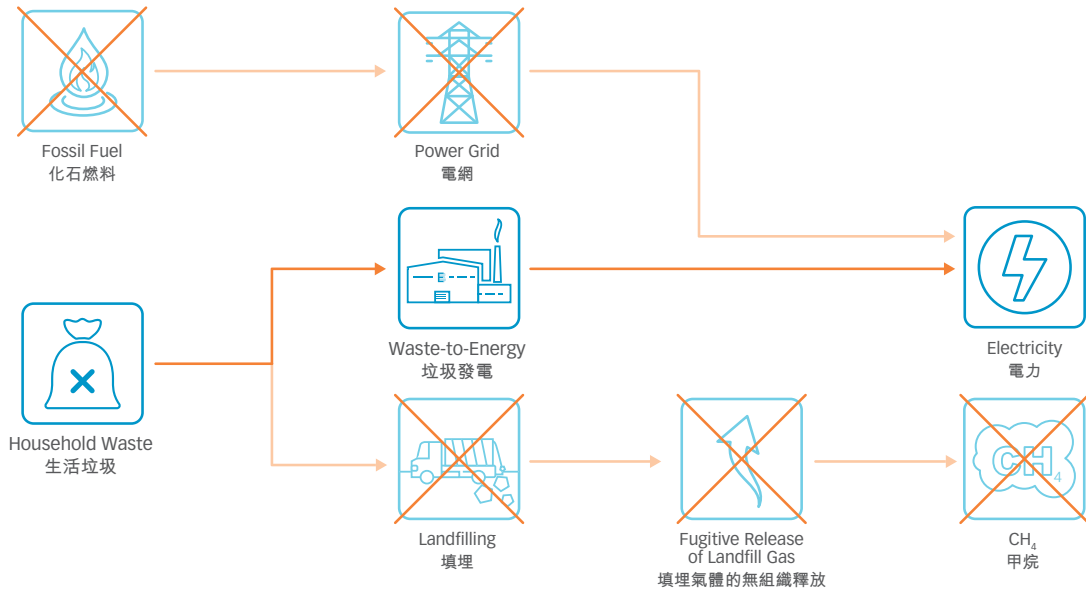
附註：

⁽¹⁾ 包括所有位於中國及越南的生物質綜合利用發電項目及垃圾發電項目。

我們自二零一五年起已開始使用更為標準化、準確及受國際認可的《聯合國氣候變化框架公約》CDM的溫室氣體排放計算方法來估算運營項目的溫室氣體排放量。於報告期內，我們首次延伸使用CDM方法來估算我們的運營所抵消的二氧化碳當量排放。該計算方法納入了在沒有垃圾發電項目及生物質綜合利用項目的情況下的基線排放，包括垃圾在填埋場分解的無組織甲烷排放以及化石燃料能源的消耗，可更準確地反映了我們在碳減排方面的成果。通過我們日益完善的數據收集機制和報告系統，我們將不斷改進各大板塊所涉及的溫室氣體排放計算方式，以讓持份者更瞭解我們一直以來在節能減排上投入的努力。

GHG Emissions Offset through Waste-to-Energy

以垃圾發電方式抵消溫室氣體排放

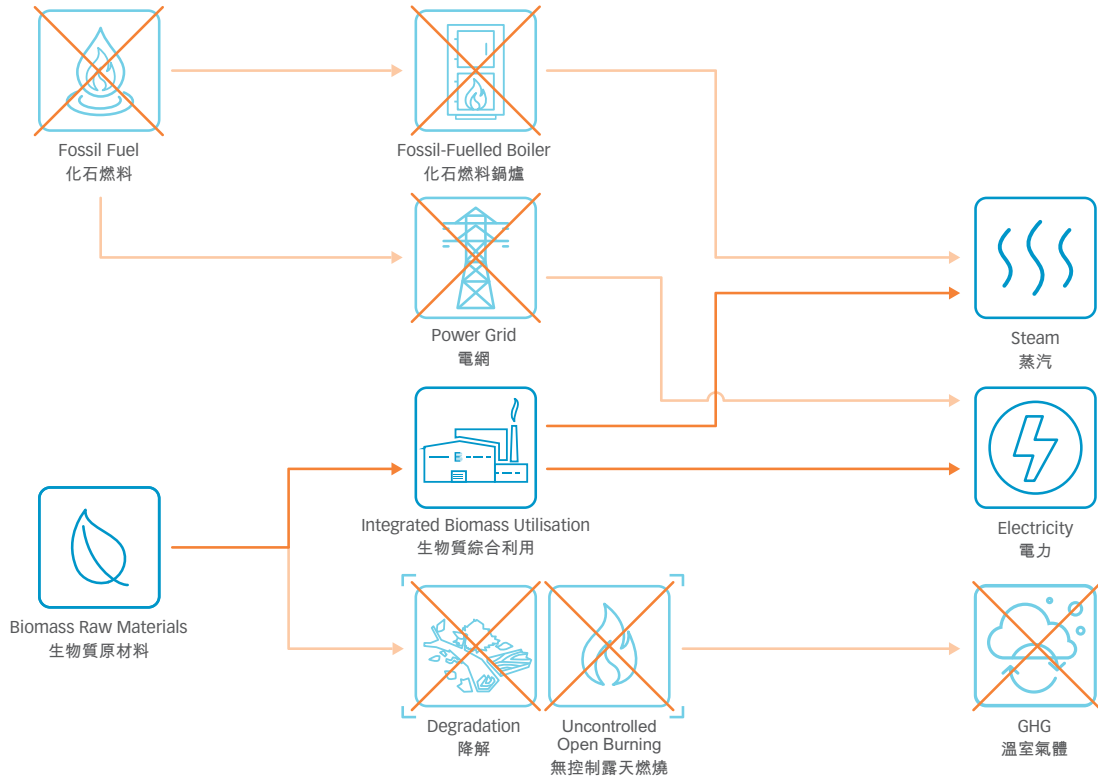


Our waste-to-energy projects recover the heat generated from incineration of household waste for electricity generation, thus offset GHG emissions by replacing the use of fossil-fuelled power. GHG emissions offset is also achieved by diverting household waste from landfills where the anaerobic degradation of organic waste would cause fugitive release of landfill gas which is rich in methane, a strong GHG.

我們的垃圾發電項目以生活垃圾焚燒所產生的熱量來發電，透過替代化石燃料能源的使用以抵消溫室氣體排放。此外，把生活垃圾從填埋場分流亦避免了有機廢物在填埋場厭氧降解所引致的無組織填埋氣體（含大量甲烷，一種強力的溫室氣體）釋放以抵消溫室氣體排放。

GHG Emissions Offset through Integrated Biomass Utilisation

以生物質綜合利用方式抵消溫室氣體排放



Our integrated biomass utilisation projects utilise biomass raw materials for power and heat generation, which offset GHG emissions through replacement of fossil fuels and avoidance of uncontrolled open burning or degradation of biomass which would otherwise generate GHG.

我們的生物質綜合利用項目使用生物質原材料發電及供熱，通過替代使用化石燃料及避免生物質不受管控地露天燃燒或降解，從而抵消溫室氣體排放。

GHG Emissions in 2018

二零一八年溫室氣體排放量

Types of Operation 運營單位	Scope 1 (Direct Emissions) 範疇一 (直接排放)		Scope 2 (Energy Indirect Emissions) 範疇二 (能源引致的間接排放)		Scope 3 (Other Indirect Emissions) 範疇三 (其他間接排放)		Total GHG Emissions 溫室氣體 總排放量
	Sources 排放來源	Emissions 排放量	Sources 排放來源	Emissions 排放量	Sources 排放來源	Emissions 排放量	
Environmental Energy 環保能源	<ul style="list-style-type: none"> - Incineration of household waste - Consumption of auxiliary fuels - Fugitive methane emissions from leachate - 生活垃圾焚燒 - 輔助燃料消耗 - 滲濾液的無組織甲烷排放 	21,098,571.88	<ul style="list-style-type: none"> Consumption of purchased non-renewable electricity in operating projects 運營項目消耗的外購非再生能源電力 	3,597.29	<ul style="list-style-type: none"> Air travel by employees 員工飛機差旅 	229.18	21,102,398.35
Environmental Water 環保水務	<ul style="list-style-type: none"> Fugitive methane emissions from waste water treatment projects 污水處理項目的無組織甲烷排放 	13,824.33	<ul style="list-style-type: none"> Consumption of purchased non-renewable electricity in operating projects 運營項目消耗的外購非再生能源電力 	344,070.87	<ul style="list-style-type: none"> - Fuel consumption for the transportation of sludge by third parties - Air travel by employees - 第三方運送污泥的燃料消耗 - 員工飛機差旅 	19,762.02	377,657.22
Greentech 綠色環保	<ul style="list-style-type: none"> Integrated biomass utilisation projects: - Incineration of household waste - Combustion of biomass raw materials - Consumption of auxiliary fuels - Fugitive methane emissions from leachate 生物質綜合利用項目: - 生活垃圾焚燒 - 生物質原材料燃燒 - 輔助燃料消耗 - 滲濾液的無組織甲烷排放 	964,172.83	<ul style="list-style-type: none"> Consumption of purchased non-renewable electricity in operating projects 運營項目消耗的外購非再生能源電力 	15,538.28	<ul style="list-style-type: none"> - Fuel consumption for the delivery of biomass by third parties - Air travel by employees - 第三方運送生物質的燃料消耗 - 員工飛機差旅 	6,960.64	986,671.75
Equipment Manufacturing, Envirotech, Headquarters and Representative Offices 裝備製造、環境科技、總部及代表處	<ul style="list-style-type: none"> Fuel consumed for facility operations 設施運營的燃料消耗 	43,319.97	<ul style="list-style-type: none"> Consumption of purchased non-renewable electricity 外購非再生能源電力消耗 	2,339.54	<ul style="list-style-type: none"> Air travel by employees 員工飛機差旅 	327.23	45,986.74
International Business 國際業務	<ul style="list-style-type: none"> - Incineration of household waste - Consumption of auxiliary fuels - Fugitive methane emissions from leachate - 生活垃圾焚燒 - 輔助燃料消耗 - 滲濾液的無組織甲烷排放 	5,948.26	<ul style="list-style-type: none"> Consumption of purchased non-renewable electricity in operation projects 運營項目消耗的外購非再生能源電力 	794.02	<ul style="list-style-type: none"> Air travel by employees 員工飛機差旅 	38.33	6,780.61

Unit: Tonne CO₂e

單位：噸二氧化碳當量

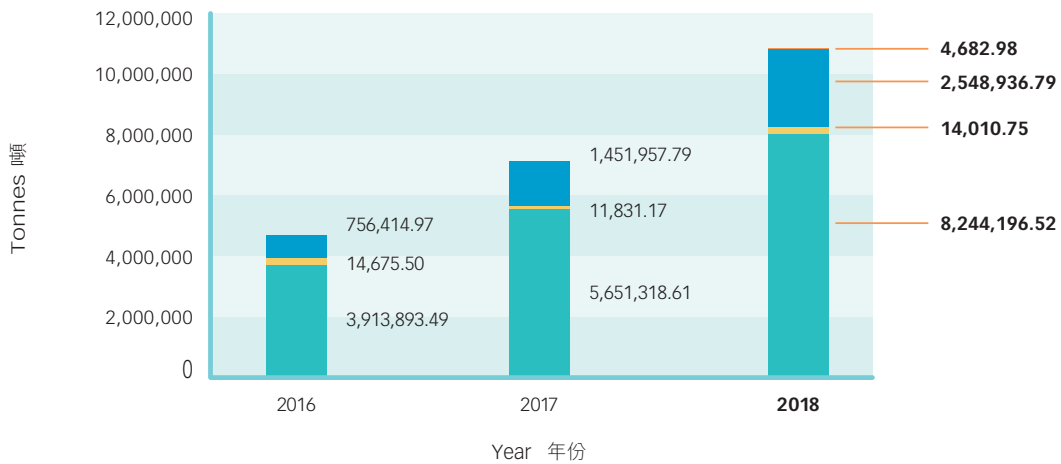
Notes:

- (1) The calculation of GHG emissions and offset is referenced to CDM methodologies "ACM0022: Alternative Waste Treatment Processes (Version 2.0)", "AM0080: Mitigation of Greenhouse Gases Emissions with Treatment of Wastewater in Aerobic Wastewater Treatment Plants (Version 1.0)", "ACM0018: Electricity Generation from Biomass Residues in Power-only Plants (Version 3.0)", "ACM0006: Electricity and Heat Generation from Biomass (Version 14.0)" and "AMS-I.C.: Thermal Energy Production With or Without Electricity (Version 20.0)".
- (2) The calculation boundaries of scope 1 and scope 2 GHG emissions do not include Poland municipal solid waste treatment company – Novago.
- (3) GHG emissions (scope 1) from the incineration of household waste are calculated based on the fraction of fossil carbon in total carbon content of the household waste. The amount of such GHG emissions may substantially fluctuate from time to time due to the varying composition of the received household waste, which is beyond Everbright International's control.
- (4) GHG emissions from air travel are calculated by International Civil Aviation Organisation Carbon Emissions Calculator.

附註：

- (1) 溫室氣體的排放及抵消的計算參照CDM方法《ACM0022：多選垃圾處理方式(2.0版)》、《AM0080：透過在有氧污水處理廠處理污水減少溫室氣體排放(1.0版)》、《ACM0018：純發電廠利用生物廢棄物發電(3.0版)》、《ACM0006：生物質熱電聯供(14.0版)》及《AMS-I.C.：電力或非電力用戶提供熱能(20.0版)》。
- (2) 範疇一和範疇二溫室氣體排放的計算邊界並不包括波蘭都市固廢處理公司—Novago。
- (3) 生活垃圾焚燒引致的溫室氣體排放(範疇一)以生活垃圾中化石碳佔總碳的比例為計算基礎。因此，生活垃圾成分的差異可對此溫室氣體排放不時造成大幅波動，這不屬於光大國際的控制範圍之內。
- (4) 飛機差旅的溫室氣體排放以國際民航組織的碳排放計算器計算得出。

Greenhouse Gas Offset by Business Sector
按業務板塊劃分的溫室氣體抵消



- Environmental Energy (Waste-to-energy)
環保能源 (垃圾發電)
- Greentech (Integrated Biomass Utilisation, Solar Energy and Wind Power)
綠色環保 (生物質綜合利用、光伏發電及風電)
- Environmental Water (Sludge Methane-to-energy)
環保水務 (污泥沼氣發電)
- International Business (Waste-to-energy)
國際業務 (垃圾發電)

**CASE STORY**
個案分享**Everbright International Secured a New Loan from ADB –
Committed to Fighting Climate Change with Vietnam**
光大國際再獲亞洲開發銀行貸款，與越南共同對抗氣候變化

In February 2018, the Group signed a loan agreement with ADB in respect of a loan of USD100 million from ADB to facilitate our construction of household waste-to-energy projects in multiple cities located in Vietnam. Everbright International's first project in Vietnam (Can Tho Waste-to-energy Project) has completed construction in December 2018. The project is set to become the first high-standard waste-to-energy project in Vietnam. Re-acquiring ADB's financial support not only reflects the business performance and sustainable development of Everbright International in the past few years, but is also widely recognised by the international community, bringing confidence and support for the Group's overseas development.

二零一八年二月，本集團與亞發行簽訂了一份一億美元的貸款協議，以支持在越南多個城市建造一系列生活垃圾發電項目。光大國際於越南的首個項目－芹苴垃圾發電項目已於二零一八年十二月建成完工，是越南第一座高標準的垃圾發電項目。再次獲得亞發行的資金支持不但體現了光大國際過去幾年的業務表現和可持續發展受到國際社會的廣泛認可，也是對本集團海外發展方向的信心和支持。



CASE STORY
個案分享

Everbright International Secured a New Loan from ADB –
Committed to Fighting Climate Change with Vietnam (Continued)
光大國際再獲亞洲開發銀行貸款，與越南共同對抗氣候變化（續）

Mr. Christopher Thieme, Deputy Director General of the Private Sector Operations Department at ADB, said: “The signed loan agreement will provide a new model to improve Vietnam’s urban solid waste management, which will mitigate climate change by reducing methane emissions and improving energy generation from renewable sources. Everbright International’s environmental protection projects are able to deliver environmental, economic and social benefits to local areas, which is consistent with the long-term strategic agendas of ‘promoting inclusive economic growth, environmentally-sustainable growth and regional integration’, as outlined in ADB’s Strategy 2020. In the future, we will continue supporting and promoting the development of PPP projects at the municipal level in Vietnam, with a view to better assisting the country in resolving its pressing solid waste treatment problem.”

亞發行私營運營部門業務局副局長Christopher Thieme先生表示：「此次貸款協議的簽署將為提升越南城市固廢管理水平構建一種新的模式，通過減少當地的沼氣排放、提升可再生能源發電水平，從而減輕氣候變化影響。光大國際旗下環保項目對於當地的環境、經濟和社會效益，與亞發行《2020戰略》的『推動包容性經濟增長、環境可持續發展和區域一體化』長期戰略框架不謀而合。未來，我們將繼續支持並推動越南的市級PPP項目發展，更好地協助該國解決緊迫的固廢處理難題。」



Energy and Material Consumption

Everbright International highly advocates green operation to reduce the consumption of energy and materials. The Group actively explores various energy-saving solutions, for instance, we organise energy-saving competitions among project companies and utilise biogas produced from waste water treatment processes to generate electricity for the plant's internal use, reducing the consumption of non-renewable energy. Besides, the Environmental Water sector is currently running a trial Information Management System named "Intelligent Water", which helps waste water treatment plants to achieve intelligent management and lower overall energy consumption. Meanwhile, "Intelligent Water" also facilitates standardised, normalised and refined operational management, promoting a balanced development of the Group and ultimately achieving a green and low-carbon operation goal.



能源及物料使用

光大國際高度提倡綠色運營以減低能源及物料消耗。本集團積極探索各種節能方案，例如在項目公司之間進行節能比賽，以及利用污水處理過程中產生的沼氣發電供廠內使用，務求減少非再生能源的消耗。其中，環保水務板塊正在進行一個「智慧水務」信息管理系統的試點項目，幫助污水處理廠實現智能化管理，降低整體的能耗，同時也可以提高運營管理的標準化、規範化和精細化水平，促進本集團的均衡發展，最終實現綠色低碳的運營目標。



CASE STORY 個案分享

Brilliant Ideas on Energy Conservation 節能巧思

Efficient Heat Utilisation 高效餘熱利用

The generation efficiency of waste-to-energy power plants is generally low, at about 20% to 25%, leaving substantial room for improvement in energy efficiency. As steam turbine circulating cooling water takes away more than 50% of heat, through technological innovation, Daxin Waste-to-energy Project uses new technologies such as absorption heat pump to realise circulating cooling water waste heat for waste storage pit heating and whole plant heating, greatly improving overall energy efficiency.

垃圾發電廠整體發電效能率一般偏低，僅20%至25%左右，具有大幅的能效提升空間。由於汽輪機循環冷卻水帶走了超過50%的熱量，通過科技創新，大辛垃圾發電項目運用吸收式熱泵等新技術，實現了循環冷卻水餘熱用於垃圾倉升溫及全廠供暖，大大提升了整體能源利用效率。

Direct Energy Consumption Statistics in 2018

二零一八年直接能源消耗統計

Operation Unit 運營單位	Diesel 柴油	Gasoline 汽油	Natural Gas 天然氣	Biogas 沼氣	Non- Renewable Electricity 非再生能源 電力消耗	Renewable Electricity 可再生 電力消耗	Total 總計
					Consumption 消耗	Consumption 消耗	
Environmental Energy 環保能源	340,076.22	420,623.37	53,537.11	-	18,103.38	3,215,425.23	4,047,765.31
Environmental Water 環保水務	11,361.06	27,977.04	14.30	181,488.69	1,517,802.25	-	1,738,643.34
Greentech 綠色環保	88,811.40	8,601.47	9,720.74	-	77,971.48	403,366.00	588,471.09
Equipment Manufacturing, Envirotech, Headquarters and Representative Offices 裝備製造、環境科技、 總部及代表處	-	3,045.48	547.76	-	12,053.36	-	15,646.60
International Business 國際業務	1,985,678.96	8,289.94	355.25	-	61,426.75	-	2,055,750.90

Unit: GJ

單位：吉焦

Note:

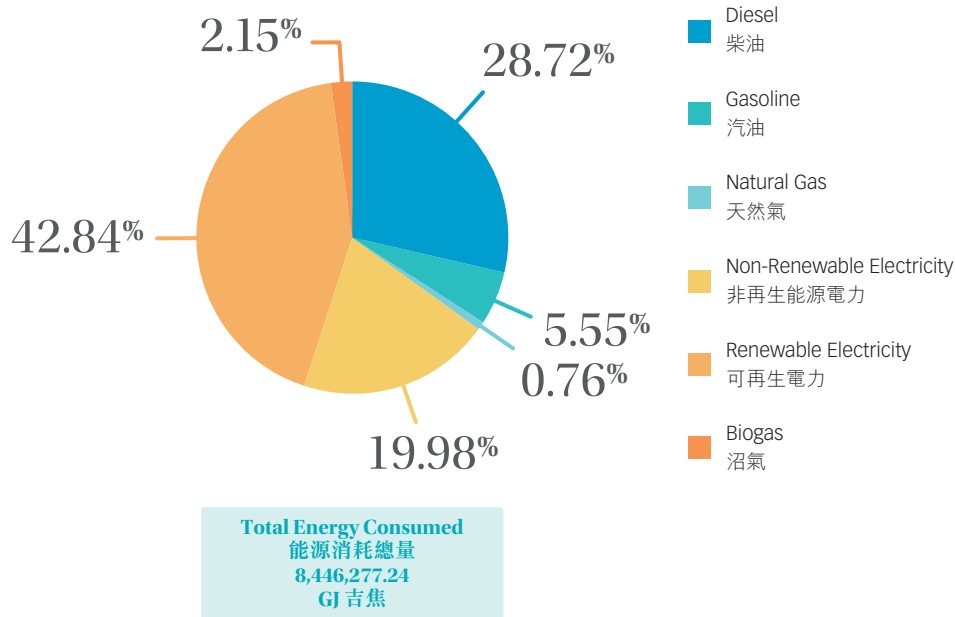
(1) Relevant energy conversion factors from "China Energy Statistics 2017" are adopted.

附註：

(1) 能量轉換計算採用《中國能源統計年鑒2017》的相關能量轉換因子。

Direct Energy Consumption Statistics of Operating Projects in 2018

二零一八年各運營項目的直接能源消耗統計



With the goal of maintaining good energy and inventory management, we keep detailed monthly records of every project company's energy and key materials usage, where the records are compiled and recorded in the regional management centres. With the collected records, we can have a clear idea on the condition of resource utilisation throughout the business development process and make corresponding adjustment on the use of energy and materials. The records also allow the Group to formulate long-term strategies on resource management, thus reducing wastage of resources. Moreover, with the goal of not interrupting project's daily operation and affecting the ESHS performance of project company, all project companies successfully reduced the electricity and energy used during operation through the initiation of the "Conserving, Enhancing Efficiency, Saving Energy and Controlling Costs" internal competition during the Reporting Period, meeting the energy reduction targets as planned.

為了確保良好的能源和庫存管理，我們每個月都會詳細記錄各項目公司的能源和主要物料的使用量，並由區域管理中心協調整合工作。透過所收集的數據，我們能夠清楚瞭解自身在業務發展過程中的資源利用狀況，繼而對能源和物料使用作出相應的調整。數據紀錄亦有利於本集團制定長遠的資源管理策略，減少資源浪費。此外，在不影響項目日常運作及項目公司ESHS表現的大前提下，旗下項目公司於報告期內全面開展了「比節支節流，比開源增效，比能耗下降，比成本降低」的內部競賽，成功達標並降低了各項目的綜合廠用電率及於運營中消耗的能源。

Major Materials Consumption of Environmental Energy 二零一八年環保能源主要生產物料使用統計
in 2018

Sector 板塊	Materials/Function 物料／用途	Amount 數量
Environmental Energy 環保能源	Lime 石灰	196,808.30
	Activated carbon 活性碳	6,294.73
	Ammonia water 氨水	54,609.42
	Acetylene 乙炔	47,588.28
	Industrial sulphuric acid 工業硫酸	374.33
	Industrial hydrochloric acid 工業鹽酸	106,656.14
	Scale inhibitor 阻垢劑	2,188.40
	Bactericide 殺菌劑	1,162.64
	Cationic polyacrylamide (CPAM) 陽離子聚丙烯醯胺	10,533.76
	Anionic polyacrylamide (APAM) 陰離子聚丙烯醯胺	143.43
	Sodium hydroxide 氫氧化鈉	812.63
	Sodium hypochlorite 次氯酸鈉	356.02
	Disodium phosphate 磷酸氫二鈉	448.65
	PAC 聚合氯化鋁	2,239.15
	Reducing agent (sodium bisulphite) 還原劑 (亞硫酸氫鈉)	200.97
Total 總計		430,416.85

Unit: Tonne

單位：噸

Major Materials Consumption of Environmental Water 二零一八年環保水務主要生產物料使用統計 in 2018

Sector 板塊	Materials/Function 物料／用途	Amount 數量
Environmental Water 環保水務	pH adjustment 酸鹼調整	17,720.71
	Coagulant and flocculant 凝結劑及絮凝劑	130,080.39
	Disinfectant 消毒劑	14,732.27
	Chemical oxidiser 化學氧化劑	11,224.81
	Carbon source 碳源	51,439.71
	Adsorbent 吸附劑	595.61
	Others 其他	3,269.29
Total 總計		229,062.78

Unit: Tonne

單位：噸

Key Materials Consumption of Greentech in 2018 二零一八年綠色環保主要生產物料使用統計

Sector 板塊	Materials/Function 物料／用途	Amount 數量
Greentech 綠色環保	Lime 石灰	26,448.17
	Activated carbon 活性碳	236.31
	Ammonia water 氨水	20,654.47
	Cement 水泥	5,337.17
	Chelating agent 螯合劑	576.49
Total 總計		53,252.62

Unit: Tonne

單位：噸

Note:

附註：

⁽¹⁾ Due to rounding, the numbers do not add up to total.⁽¹⁾ 由於捨入關係，數值加起來不等於總計。

Key Materials Consumption of International Business in 2018 二零一八年國際業務主要生產物料使用統計

Sector 板塊	Materials/Function 物料／用途	Amount 數量
International Business 國際業務	Lime 石灰	96.38
	Activated carbon 活性碳	3.46
	Ammonia water 氨水	18.70
Total 總計		118.54

Unit: Tonne

單位：噸

Note:

附註：

⁽¹⁾ Not including Poland municipal solid waste treatment company – Novago.⁽¹⁾ 不包括波蘭都市固廢處理公司 – Novago。

Office Materials Consumption in 2018

二零一八年辦公室物料使用統計

		Office Materials Consumption (Paper Products, Metal and Plastics) 辦公室物料使用 (紙製品、金屬及塑料)
Operation Unit	運營單位	
Environmental Energy	環保能源	521.11
Environmental Water	環保水務	19.50
Greentech	綠色環保	57.22
Equipment Manufacturing, Envirotech, Headquarters and Representative Offices	裝備製造、環境科技、總部及各代表處	4.86
International Business	國際業務	1.31

Unit: Tonnes

單位：噸

Notes:

(1) Not including Vietnam operations.

附註：

(1) 不包括越南的營運。

Water Resources Usage and Management

As an integrated environmental service company, the Group has been complying the water usage and conservation policies of China. Our waste-to-energy projects treat leachate and municipal waste water in accordance with “Reuse of Urban Recycling Water – Water Quality Standard for Industrial Uses” (GB/T 19923-2005), “Reuse of Urban Recycling Water – Water Quality Standard for Scenic Environment Use” (GB/T 18921-2002) or other equivalent standards. Treated leachate meeting reusable water standards will be recirculated in our waste-to-energy projects, while the reverse osmosis concentrate will be used in other processes, such as lime preparation. Environmental Water, on the other hand, utilises reusable water projects to purify effluent from waste water treatment plants in accordance with “Reuse of Urban Recycling Water– Water Quality Standard for Industrial Uses” (GB/T 19923-2005) or equivalent standards⁽¹⁾. Reclaimed water produced by reusable water projects can be used for power plants and general industrial use, reducing freshwater demand of cities. During the Reporting Period, our operating projects have consumed 49,894,568.65m³ of water⁽²⁾.



水資源使用及管理

作為一間綜合性的環保服務公司，本集團緊跟國家相關用水節水政策，致力減少項目耗水。我們的垃圾發電項目均遵照《城市污水再生利用 工業用水水質》(GB/T 19923-2005)以及《城市污水再生利用 景觀環境用水水質》(GB/T 18921-2002)或其他水循環標準處理滲濾液及生活污水，滲濾液處理後的反滲透出水達到循環補充水水質標準後，回用於垃圾發電項目循環補充水，濃水回用於石灰漿製備等焚燒設施。環保水務則致力將經污水處理廠處理後的出水透過中水回用項目，按照《城市污水再生利用 工業用水水質》(GB/T 19923-2005)或同等標準⁽¹⁾淨化成再用水，可用作廠區冷卻水或供其他企業作一般工業用途，從而減少城市的淡水消耗。於報告期內，我們於運營內的水消耗總量為49,894,568.65立方米⁽²⁾。



Notes:

- (1) Major reclaimed water parameters regulated by relevant national laws and regulations mainly include pH, suspended solids, turbidity, biological oxygen demand, COD, iron, manganese, chloride ion, silicon dioxide, total hardness, ammoniacal nitrogen, total phosphorus, E.coli.
- (2) Total water consumed include water withdrawn, reusable water, recirculating water and harvested rainwater.

附註：

- (1) 受相關國家法律及規例規管的再用水指標主要包括酸鹼值、懸浮物、濁度、生物需氧量、COD、鐵、錳、氯離子、二氧化矽、總硬度、氨氮、總磷、糞大腸菌群數。
- (2) 水消耗總量包括取水、中水回用、循環用水及雨水回收量。

Water Withdrawn by Source in 2018

二零一八年按來源劃分的取水量

Operation Unit 運營單位	Rivers and Lakes 河流及湖泊	Groundwater 地下水	Municipal Water Supplies or Other Water Facilities 市政供水或其他水務設施	Total 總計
Environmental Energy 環保能源	15,200,902.33	1,045,010.60	9,559,100.60	25,805,013.53
Environmental Water 環保水務	–	251,817.61	978,370.82	1,230,188.43
Greentech 綠色環保	4,669,034.73	324,029.00	1,540,888.25	6,533,951.98
Equipment Manufacturing, Envirotech, Headquarters and Representative Offices 裝備製造、環境科技、總部及代表處	–	–	49,743.00	49,743.00
International Business 國際業務	28,556.60	1,442.00	9,968.00	39,966.60

Unit: m³

單位：立方米

Through the application of new technologies such as ultrafiltration, softening, high-pressure reverse osmosis, separating membrane, and evaporation, the Group embarks its research on the fourth-generation leachate treatment technology to simplify operation and maintenance processes, reduce cost energy consumption and floor space, as well as quantify the management process. On the other hand, through a series of water environment treatment services such as municipal and industrial waste water treatment as well as water reuse, Environmental Water's project companies across the country will continue to safeguard China's water quality and sanitation, minimise environmental impacts from waste water discharge, and protect people's health and well-being.

通過微濾、軟化、高壓反滲透、物料分離膜和蒸發等新工藝和技術的應用，本集團研究開發第四代滲濾液處理技術，運行維護更簡單，運行能耗費用更低，佔地面積更少，實現全量化處理。另一方面，透過生活及工業污水治理、中水回用等一系列的水環境治理服務，環保水務位於全國各地的項目公司持續為中國的水質和衛生狀況把關，大大減低污水排放帶來的環境影響，保障人民的健康和福祉。

We raise water discharge standards of our waste water treatment projects continuously through upgrading works. Based on the requirements of the environmental impact assessment reports approved by the government, most of the effluent generated by our projects have reached the Grade 1A effluent discharge standard according to the “Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant” (GB18918-2002)⁽¹⁾. The independence and fairness of our effluent monitoring results are guaranteed by using rapid, reliable and continuous effluent monitoring systems installed in all our waste water treatment projects, as well as periodic monitoring events conducted by third-party laboratories. Also, our new bio-deodourisation system adjusts the processing parameters depending on the type of odour, which solves the odour pollution generated by waste water treatment plants and improves the efficiency and environmental friendliness of our projects.

我們為所有污水處理項目訂立更高的出水標準，透過持續的提標改造工程，在符合政府部門批准的環境影響評價報告的相關要求的基礎上，大部份項目的出水水質遵守《城鎮污水處理廠污染物排放標準》(GB18918-2002)的一級A標準⁽¹⁾。我們的所有污水處理項目均安裝了可以迅速、可靠和無間斷地記錄出水水質數據的出水監測系統，並聘請第三方化驗所定期監測出水樣本，確保水質檢測結果的獨立性及公正性。此外，我們的新型生物除臭系統可以根據不同類型的惡臭氣體調整處理參數，這將有助於解決污水處理廠所產生的氣味問題，使工廠更加高效環保。

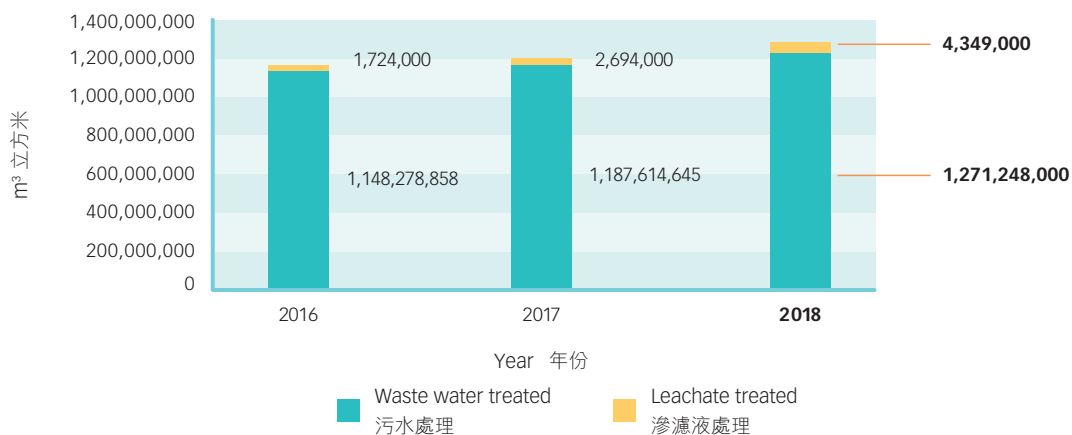
Note:

⁽¹⁾ Major effluent parameters regulated by relevant national regulations and standards include COD, biological oxygen demand, suspended solids, animal fats and vegetable oils, total nitrogen, ammoniacal nitrogen, total phosphorus, pH, colour, E. coli, mercury and other heavy metals (and their chemical compounds).

附註：

⁽¹⁾ 受相關國家規例及標準規管的出水指標主要包括COD、生物需氧量、懸浮物、動植物油、總氮、氨氮、總磷、酸鹼值、色度、糞大腸菌群數、汞及其他重金屬（及其化合物）。

Amount of Waste Water and Leachate Treated in the Past Three Years
過往三年的污水及滲濾液處理量



Notes:

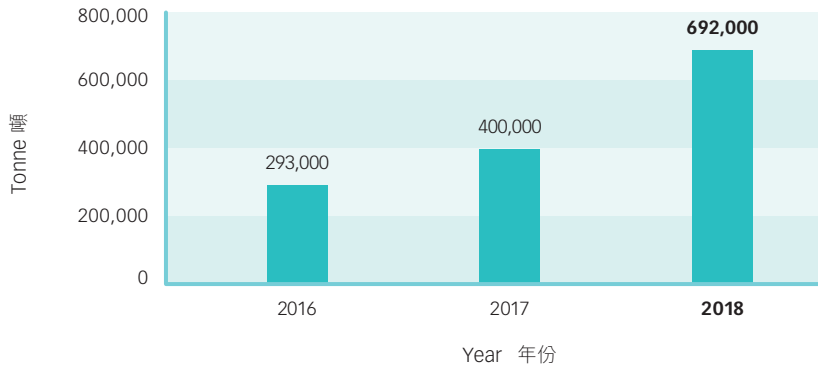
⁽¹⁾ Waste water treatment includes all operating municipal and industrial waste water treatment projects under Environmental Water.
⁽²⁾ Leachate treatment includes all operating waste-to-energy projects and integrated biomass utilisation projects.

附註：

⁽¹⁾ 污水處理包括環保水務所有運營生活及工業污水處理項目。
⁽²⁾ 滲濾液處理包括所有運營垃圾發電項目及生物質綜合利用項目。

Amount of COD Reduced for the Past Three Years

過往三年的COD減排量



Note:

(1) Includes all operating waste-to-energy projects, municipal and industrial waste water treatment projects, integrated biomass utilisation projects.

附註：

(1) 包括所有運營垃圾發電項目、生活及工業污水處理項目、生物質綜合利用項目。

Effluent Discharged by Destination in 2018

二零一八年按目的地劃分的排放量

Operation Unit	Surface Water	Sea	Municipal Waste Water Treatment Plants or Other Public or Private Waste Water Treatment Facilities	Total
運營單位	地表水	大海	市政污水處理廠，或其他公共或私有的污水處理設施	總計
Environmental Energy 環保能源	2,825,313.00	–	1,384,546.67	4,209,859.67
Environmental Water 環保水務	662,902,053.75	216,884,125.00	87,212,310.00	966,998,488.75
Greentech 綠色環保	97,176.00	–	193,561.43	290,737.43
Equipment Manufacturing, Envirotech, Headquarters and Representative Offices 裝備製造、環境科技、總部及代表處	–	–	46,425.00	46,425.00

Unit: m³

單位：立方米

Waste Management

Cherishing resources and reducing wastage is an essential part of our practice. The Group strives to achieve environmentally sound management of all wastes throughout their life cycles, and significantly reduce their release to air, water and soil through comprehensive recycling schemes. The bottom ash generated from our waste-to-energy projects were recycled to produce bricks for sustainable constructions. Ash produced from biomass combustion were used to produce fertilisers and treated sludge generated from the municipal waste water treatment process were used in compost production respectively, thus supporting landscaping and greening. During the Reporting Period, our Envirotech sector developed plasma melting technology for the treatment of fly ash generated from the waste-to-energy process and completed the process system design at the capacity of 30 tonnes per day. With independent intellectual property rights, this technology facilitated Zhenjiang Waste-to-energy Project to become a boutique demonstration project, and laid a solid foundation for the localisation and industrialisation of plasma fly ash melting technologies. We will continue to increase our investment in scientific research and perfect the management system of our Envirotech business, in order to lead the technological development of the renewable energy sector in China.

廢棄物管理

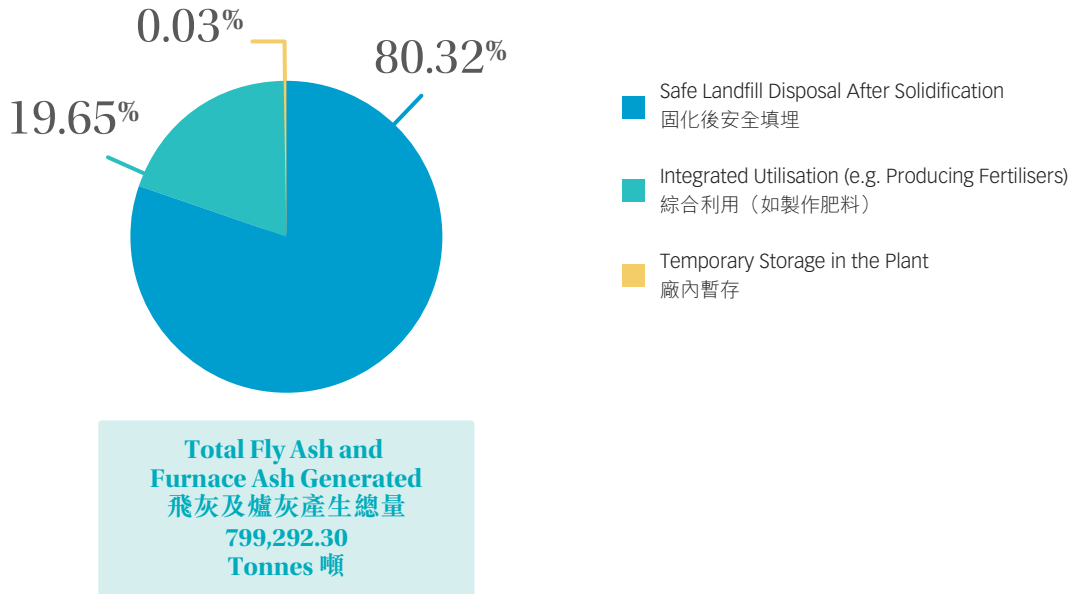
惜物減廢是我們工作的重要一環。本集團務求達至對所有廢物全生命週期的綠色管理，並透過全面的回收計劃，減少它們排入空氣、水和土壤。我們垃圾發電項目產生的爐渣被循環再用於製磚，以支持綠化建設；生物質燃燒產生的爐灰可用於製作肥料，而生活污水處理中產生的污泥在經處理後則可用於製作堆肥，從而支持園景綠化。我們的環境科技板塊更於報告期內開發出具有自主智慧產權的生活垃圾飛灰等離子熔融技術，完成30噸／日整套系統工藝設計，打造鎮江垃圾發電項目精品示範，為飛灰等離子熔融技術國產化、工業化奠定堅實基礎。我們將繼續加大科研投入，完善環境科技業務的管理體制，引領中國再生能源產業的技術升級。

Fly Ash and Furnace Ash Generated and Processed in 2018 二零一八年飛灰及爐灰產生量及處置方式

Operation Unit		Safe landfill disposal after solidification	Integrated Utilisation	Temporary Storage	Total
運營單位		固化後安全填埋	綜合利用	廠內暫存	總計
Fly Ash					
飛灰					
Environmental Energy 環保能源	Waste-to-energy Projects 垃圾發電項目	602,099.32	-	-	602,099.32
Greentech 綠色環保	Integrated Biomass Utilisation Projects (Waste-to-energy) 生物質綜合利用項目 (垃圾發電)	31,879.55	-	-	31,879.55
	Hazardous Waste Incineration Projects 危廢焚燒項目	1,582.85	-	-	1,582.85
International Business 國際業務	Waste-to-energy Projects 垃圾發電項目	-	-	298.68	298.68
Furnace Ash					
爐灰					
Greentech 綠色環保	Integrated Biomass Utilisation Projects (Biomass) 生物質綜合利用項目 (生物質)	6,404.36	157,027.54	-	163,431.90

Unit: Tonnes

單位：噸



Bottom Ash Generated and Processed in 2018

二零一八年爐渣產生量及處置方式

Operation Unit		Professional Third Party Utilisation (eg. Brick-Making) 由合資格第三方綜合利用 (如製磚)	Safe Landfill Disposal after Solidification 固化後安全填埋	Temporary Storage in the Plant 廠內暫存	Total
運營單位					總計
Environmental Energy 環保能源	Waste-to-energy Projects 垃圾發電項目	3,693,751.77	-	-	3,693,751.77
Greentech 綠色環保	Integrated Biomass Utilisation Projects 生物質綜合利用項目	636,009.75	-	-	636,009.75
	Hazardous Waste Incineration Projects 危廢焚燒項目	-	6,050.96	-	6,050.96
International Business 國際業務	Waste-to-energy Projects 垃圾發電項目	-	-	1,611.66	1,611.66

Unit: Tonnes

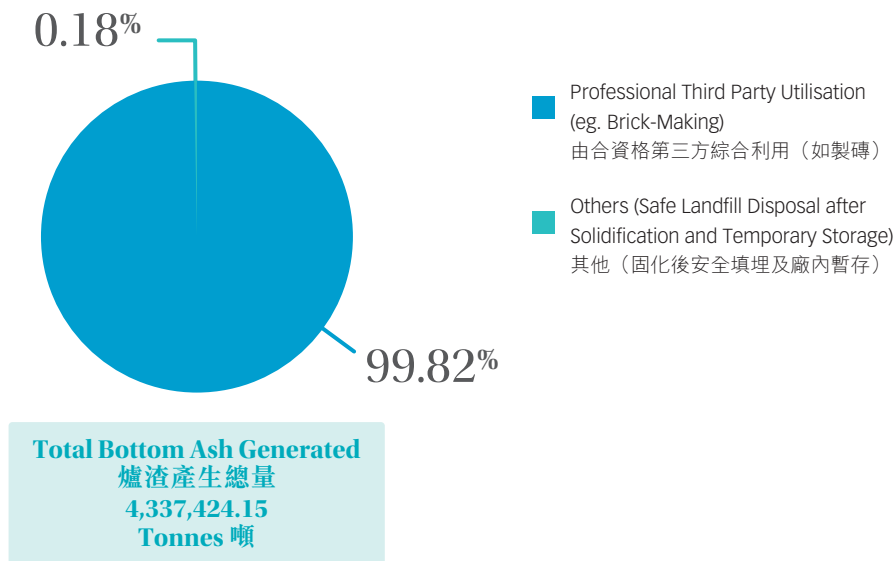
單位：噸

Note:

附註：

(1) Due to rounding, the numbers do not add up to total.

(1) 由於捨入關係，數值加起來不等於總計。



On the other hand, our hazardous waste and solid waste treatment projects process over 90% of hazardous waste types listed in the “National Catalogue of Hazardous Wastes” by ways of incineration, landfill, physico-chemical treatment and integrated utilisation, ensuring that hazardous chemicals are properly detoxified before disposal. All of the Group’s hazardous waste and solid waste treatment projects operate in compliance with respective requirements stipulated in the environmental impact assessment approved by the government as well as national standards including “Standard for Pollution Control on the Security Landfill Site for Hazardous Wastes” (GB18598-2001) and the “Pollution Control Standard for Hazardous Wastes Incineration” (GB18484-2001)⁽¹⁾.

We did not import or export any hazardous waste from/to foreign countries in 2018.

Note:

⁽¹⁾ Key air pollutants regulated by relevant national laws and regulations include smoke blackness, particulate matter, carbon monoxide, sulphur dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides, mercury and other heavy metals (and their compounds), and dioxins.

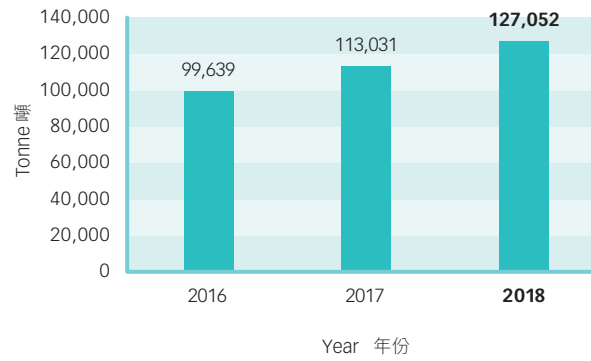
另一方面，我們的危廢及固廢處置項目通過焚燒、填埋、物化處理及綜合利用等方式安全處置《國家危險廢物目錄》中百分之九十以上的危廢種類，以確保危險化學物質在棄置前適當進行無害化工序。本集團所有危廢及固廢處置項目遵照政府部門批准的環境影響評價、《危險廢物填埋污染控制標準》(GB18598-2001)及《危險廢物焚燒污染控制標準》(GB18484-2001)等國家標準的相關要求⁽¹⁾運營。

我們於二零一八年沒有從國外輸入或向其輸出任何危險廢物。

附註：

⁽¹⁾ 受相關國家法律及例規管的大氣污染物主要包括煙氣黑度、顆粒物、一氧化碳、二氧化硫、氟化氫、氯化氫、氮氧化物、汞和其他重金屬（及其化合物）、二噁英。

Hazardous Waste and Solid Waste Processed in the Past Three Years 過去三年危廢及固廢處置統計



Sludge produced from waste water treatment brings negative environmental impacts if not treated properly. Apart from strictly enforcing national standards such as “Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant” (GB189818-2002), the operating projects under Environmental Water sector also adopts relevant international standards including the World Bank Group’s “General Environmental Health and Safety Guidelines” and “Environmental, Health and Safety Guidelines for Water and Sanitation” to reduce the environmental impacts of sludge. Most of the treated sludge with satisfactory testing results is sent to qualified third-parties for further treatment, reuse and/or utilisation, such as production of compost, utilisation as construction materials, etc. A minority of sludge cannot be utilised is sent to designated landfill for disposal after undergoing dewatering process to reduce its water content and volume.

污水處理項目所產生的污泥如果未能妥善處理將會為環境帶來負面影響。除嚴格遵從《城鎮污水處理廠污染物排放標準》(GB18918-2002)等國家標準處理污泥，環保水務板塊的運營項目還採納世界銀行集團的《通用環境、健康和 safety 指南》及《水與衛生環境、健康與安全指南》等相關國際標準以減少污泥對環境的影響。大部份經處理並通過檢測的污泥會被送到合資格第三方作進一步處理、循環再用及／或綜合利用，如製作堆肥、建材利用等。少數無法進行綜合利用的污泥則會於先進行脫水工序以減低含水量及體積後再送到指定填埋場作填埋處理。

The Group actively leverages on its advantages on technological R&D. The breakthrough and accomplishment of the low-temperature sludge drying technology achieves stabilisation on sludge and reduces water content of sludge to below 60%. As high efficiency treatment and reuse of sludge is believed to be one of the game-changing technologies that may bring significant changes to the water sector in the future, we will continue to explore low-cost and efficient sludge treatment and utilisation technologies (such as protein and phosphorus recovery technologies), leading the industry to march towards a more environmental path.

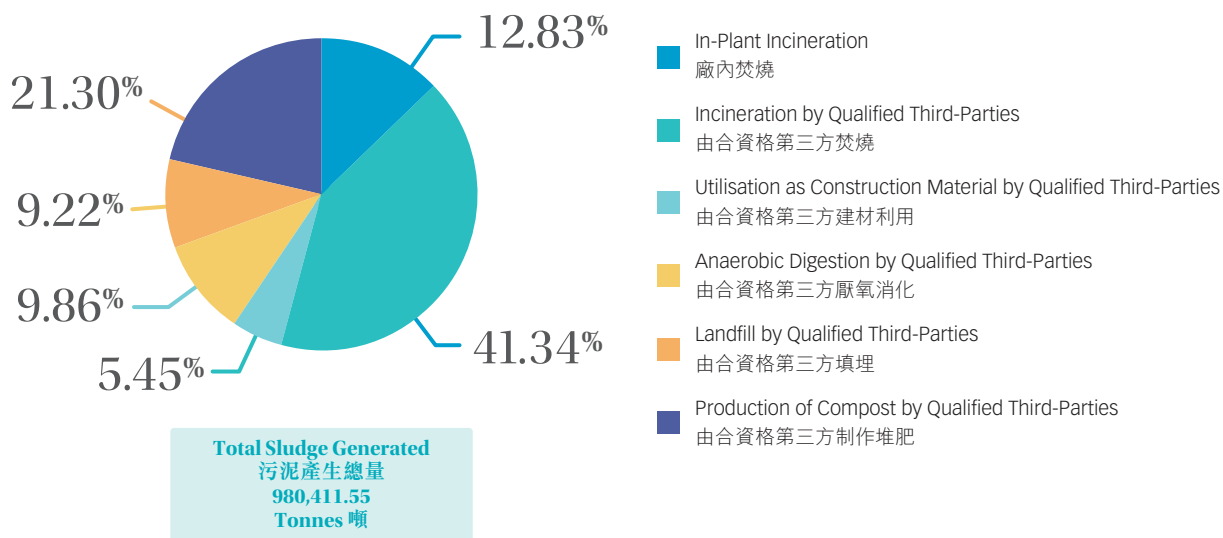
本集團積極發揮科研優勢，成功完成了污泥低溫乾化技術的突破，對污泥進行穩定處理，將污泥含水量降至60%以下。由於污泥的高效處理和再利用將成為未來改變水行業的革新技術之一，我們將繼續探索低成本且高效的污泥處理和綜合利用技術（如蛋白質和磷回收技術），引領行業向更環保的方向邁進。

During the Reporting Period, the Group generated 980,411.55 tonnes of sludge.

報告期內，本集團共產生了約980,411.55噸污泥。

Treatment/Disposal Methods of Sludge Generated in 2018

二零一八年所產生的污泥處理/處置的方式



Note :

(1) Includes all operating Environmental Energy’s waste-to-energy projects and Environmental Water’s waste water treatment projects.

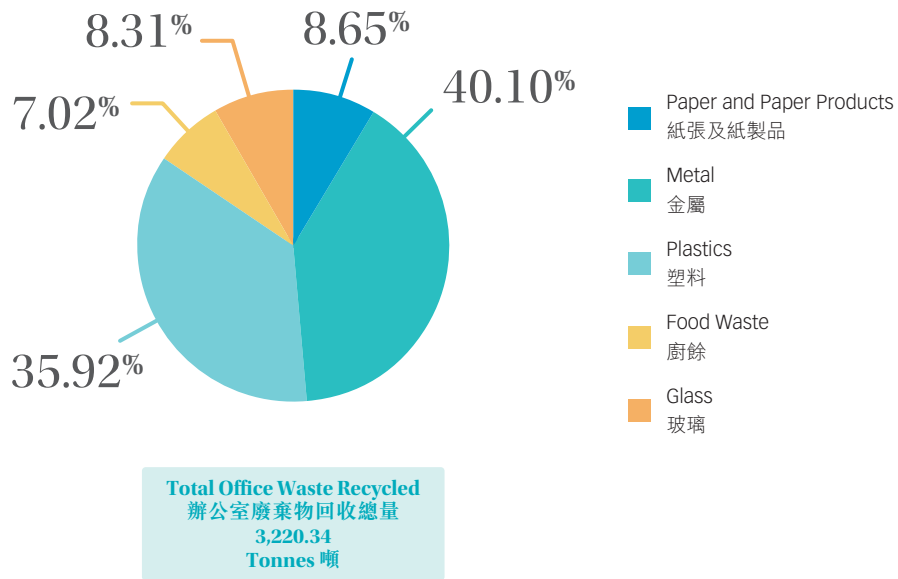
附註：

(1) 包括環保能源所有的運營垃圾發電項目及環保水務所有的運營污水處理項目。

Moreover, recycling and reusing are widely practised in our facilities and even offices and staff quarters. We recycle wastes such as paper, metal, plastic, food waste, etc., striving to implement our philosophy of valuing resources through solid actions.

我們從生產設施及至辦公室和宿舍等全面執行廢棄物回收以及重用，回收的廢棄物包括紙張、金屬、塑料和廚餘等，務求以實際行動貫徹我們重視資源的理念。

Office Waste Recycling Statistics in 2018
二零一八年辦公室廢棄物回收量統計



Note:

(1) Not including Vietnam operations.

附註：

(1) 不包括越南的營運。

08

We create excellent working environment and

FULLY CULTIVATE EMPLOYEE CAPACITY

打造良好的工作環境，充分發掘員工潛能



Everbright International's success is attributed to our sound and advancing talent pool, and the supports from our top professional teams are crucial for the Group to become a world-class enterprise in the future. To enable our employees to thrive in a good working environment, the Group adheres to the "People-Oriented" philosophy to continuously improve its human resources strategy and helps employees to achieve work-life balance. Meanwhile, we appreciate and respect multiculturalism where equal employment opportunity is upheld to create a friendly and inclusive working environment as well as provide employees with a fair and challenging development platform.

All employee statistics disclosed in this section does not include Poland municipal solid waste treatment company – Novago.

Employee Overview

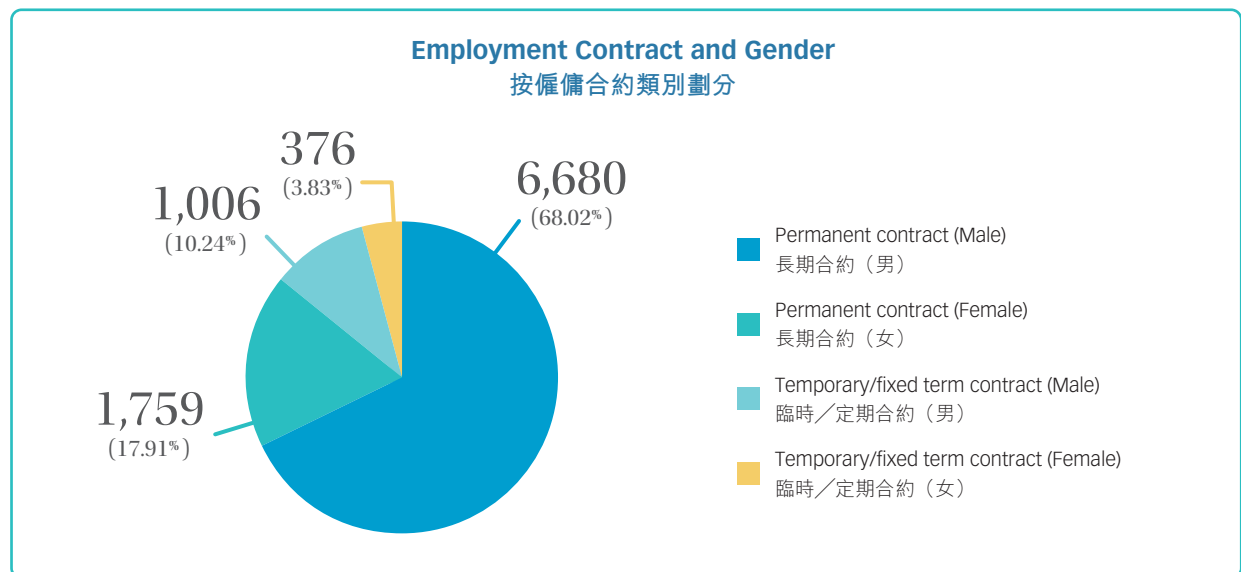
As at 31 December 2018, Everbright International has a total of 9,821 employees⁽¹⁾⁽²⁾.

光 大國際的成功有賴於我們良好及與時俱進的人才隊伍，要爭取成為世界一流企業則更離不開一流專業團隊的支持。為了讓員工在良好的工作環境中茁壯成長，本集團秉持「以人為本」的宗旨，持續改善人力資源策略，協助員工在工作和生活之間取得平衡。我們同時欣賞及尊重多元文化，高舉平等就業的理念，締造友善共融的工作環境，為員工提供公平而具挑戰性的發展平台。

本節中所披露的員工統計數據均不包括波蘭都市固廢處理公司—Novago。

員工概覽

截至二零一八年十二月三十一日，光大國際共有9,821名員工⁽¹⁾⁽²⁾。



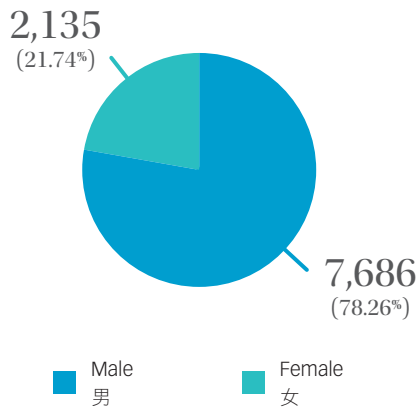
Notes:

- ⁽¹⁾ Amongst them, 9,818 were full-time employees, and 3 were part-time employees.
- ⁽²⁾ Data as at 31 December 2018.

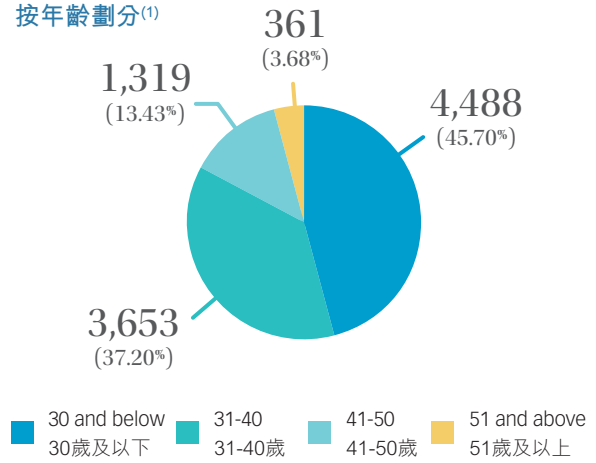
附註：

- ⁽¹⁾ 其中，9,818名為全職員工，3名為兼職員工。
- ⁽²⁾ 數據截至二零一八年十二月三十一日。

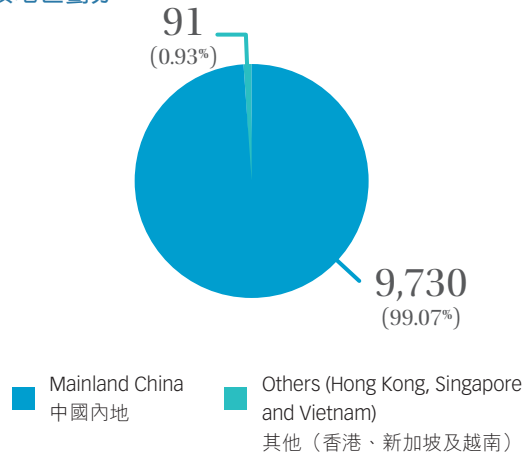
By gender 按性別劃分



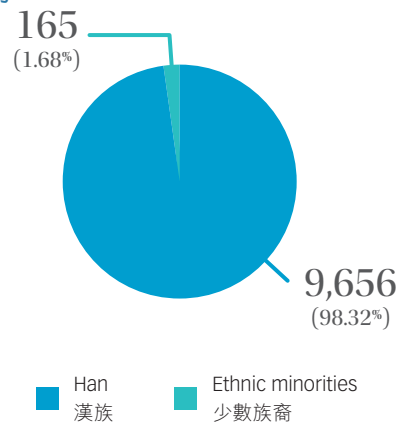
By age⁽¹⁾ 按年齡劃分⁽¹⁾



By geographical region 按地區劃分



By ethnicity 按民族劃分



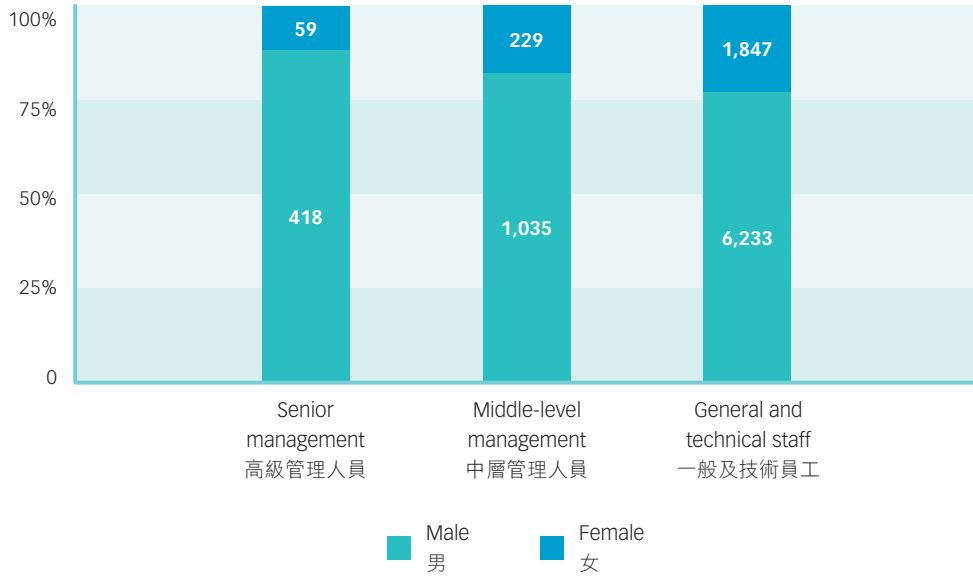
Notes:

- (1) Due to rounding, the values do not sum up to 100%.
 (2) Data as at 31 December 2018.

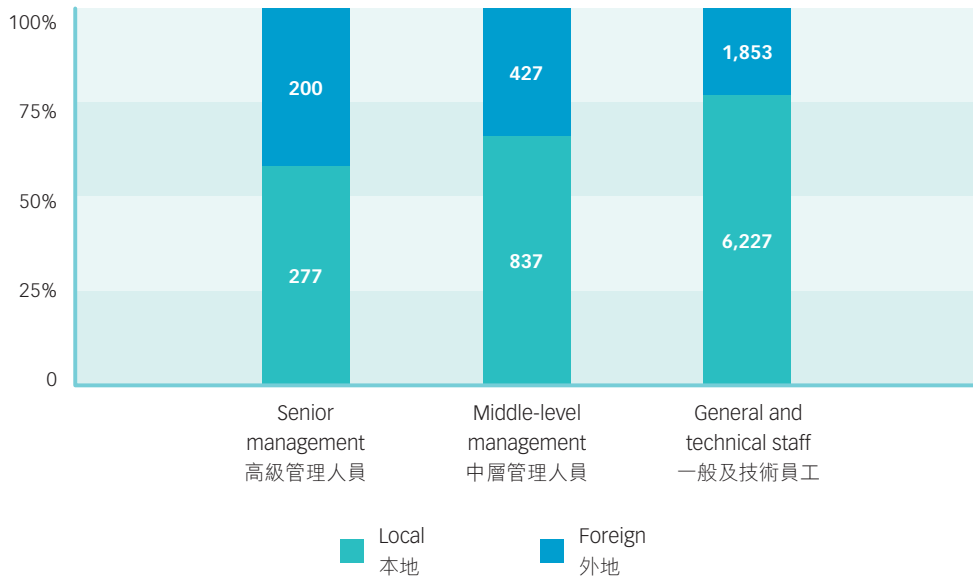
附註：

- (1) 由於捨入關係，數值加總不等於100%。
 (2) 數據截至二零一八年十二月三十一日。

Male to female ratios by employee ranking 各員工職級的男女比例



Employees hired by geographical region 按地區劃分的受僱員工



Note:

(1) Employees hired from the same province in Mainland China are regarded as local employees, whereas the employees hired from other provinces in Mainland China are regarded as foreign employees.

附註:

(1) 在中國內地同省受聘的員工被視為本地員工，而在中國內地外省受聘的員工則被視為外地員工。

Talent Recruitment and Retention

Talent is the foundation of enterprise and one of the most important core resources for enterprise development. Everbright International focuses on talent pool and sustainable corporate culture, and our project management team comprises members with extensive and in-depth experience in project planning, procurement, construction, operations and R&D.

To attract and cultivate professional and international talents, we actively develop our talent pool through local, overseas and on-campus recruitments and various internal training initiatives. In line with our “Technology Leads Development” ethos, the Group actively brings in management and technical expertise in technological R&D through industry-university cooperation and acquisition of technological companies in recent years. During the Reporting Period, the Group established the “Everbright-Qingdao University of Technology Research Institute of Environmental Technology” with the Qingdao University of Technology. Through the integration of academic theories and industry practices, the Group is able to interact directly with high-potential candidates from the university, thus attracting more talents to the Group.

We strive to provide open and equal employment opportunities and platforms, where the ability and qualification of candidates remain as the most important assessment criteria in the recruitment process, and their employment opportunities are never affected by factors such as gender, age and ethnicity. In addition, as a large number of our projects are located in underdeveloped and remote areas, we pay special attention to local talents in which many new employees hired during the Reporting Period are from local, so as to promote local economic development and employment opportunities.

廣納及保留人才

人才是企業之本，也是企業發展最重要的核心資源之一。光大國際注重人才儲備和可持續的企業文化，而我們的項目管理團隊由在項目規劃、採購、施工、運營及研發方面具有廣泛及深入經驗的資深成員組成。

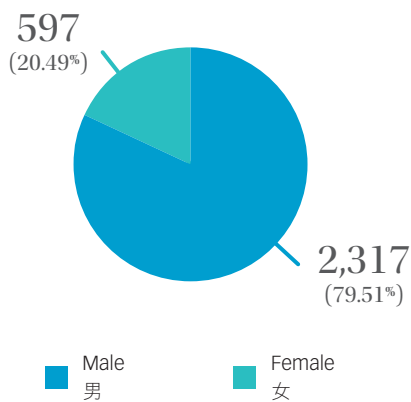
為吸引和培養專業化和國際化的人才，我們通過本地招聘、海外招聘、校園招聘及自身培養等方式不斷加強人才隊伍建設。為配合我們「科技引領發展」的策略，集團近年更透過產學合作、收購技術公司等方式，積極引進技術研發的管理及技術專才。於報告期內，本集團更與青島理工大學共建「光大青島理工環境技術研究院」，透過融合學術理論與生產實踐，讓集團與大學優秀人才進行面對面交流，同時吸納更多優秀的管理人才。

我們務求提供公開而平等的就業機會與平台，在招聘的過程中應徵者的能力和資質為最重要的考核要素，絕不因為性別、年齡、種族等其他因素影響應徵者的機會。另外，我們大量項目位於尚欠發展的偏遠地區，為了促進當地經濟發展和就業機會，我們特別關顧本地人才，報告期內聘請的許多新員工均來自本地。

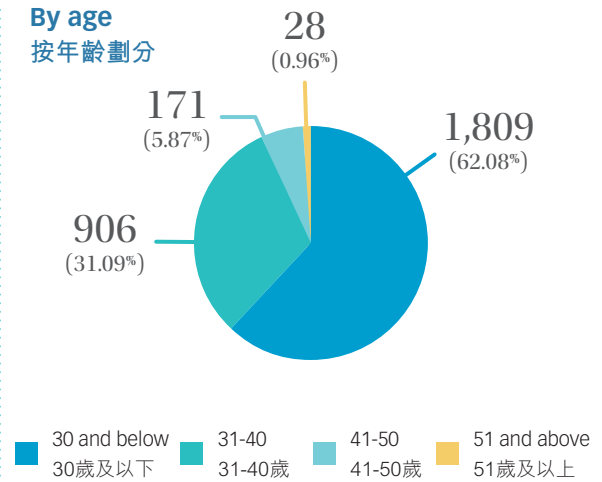
New Employees Statistics in 2018 二零一八年新聘員工統計

Total number of new Employees: 2,914 (Accounted for 29.67% of the total workforce)
新聘員工總數： (佔總人數的29.67%)

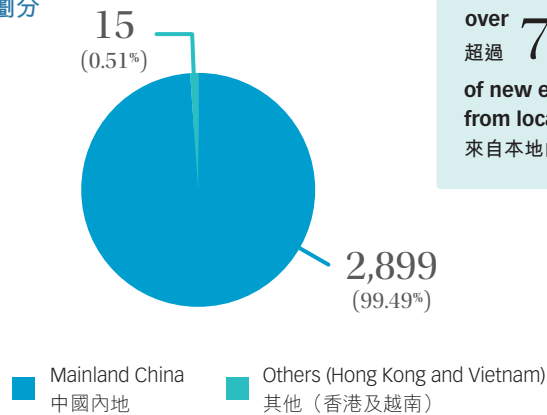
By gender 按性別劃分



By age 按年齡劃分



By geographical region 按地區劃分



over 70%
超過 70%
of new employees were hired
from local
來自本地的新聘員工

Note:

(1) Employees hired from the same province in Mainland China are regarded as local employees, whereas the employees hired from other provinces in Mainland China are regarded as foreign employees.

附註：

(1) 在中國內地同省受聘的員工被視為本地員工，而在中國內地外省受聘的員工則被視為外地員工。

To improve the talent pool for supporting the Group's sustainable development, the Group has continuously enriched the pool of backup management personnel of the seven business sectors. There are currently 842 backup management personnel as the main force and new force for the Group's future development. We also offer internal competitive selection and promotion opportunities through public announcement in the Office automation system, by voluntary application and bottom-up recommendation, so that competent and aspiring staff can land the right position with greater prospects for growth and development. Meanwhile, the Group further improves the human resources system and information management system to facilitate the development and output of management talents through appropriate addition of deputy positions in project companies, strengthening the new force for the Group's future development.

為做好人才儲備以配合本集團的持續發展，本集團不斷完善七大業務板塊的後備管理人員庫，目前共有842名後備管理人員，作為集團未來發展的主力軍和生力軍。我們亦透過在內部辦公系統公開發佈招聘訊息，以自願報名及由下至上推薦等形式提供內部競聘及選拔的機會，讓有能力、有理想的員工找到更適合自己崗位，獲得更大的成長和發揮空間。同時，本集團進一步完善人事制度和資訊化管理體系，通過項目公司副職崗位的適度增設，促進管理人才的培養和輸出，加強本集團未來發展的生力軍。



In 2018

二零一八年

Number of backup management personnel promoted to General Managers, Construction Supervisors or Project Management Team Leaders

後備管理人員赴任新項目的總經理、總指揮或籌備組長的人數

共 **28** 人

Number of Deputy General Managers promoted to General Managers

副總經理獲晉升為總經理的人數

共 **34** 人

As at 31 December 2018

截至二零一八年十二月三十一日

Total number of backup management personnel

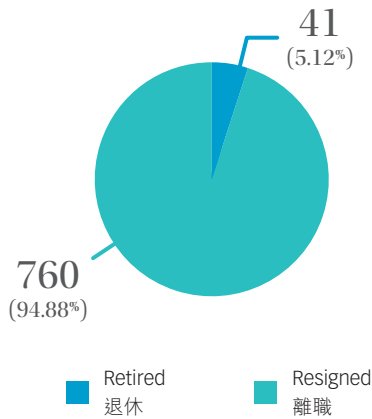
後備管理人員總數

共 **842** 人

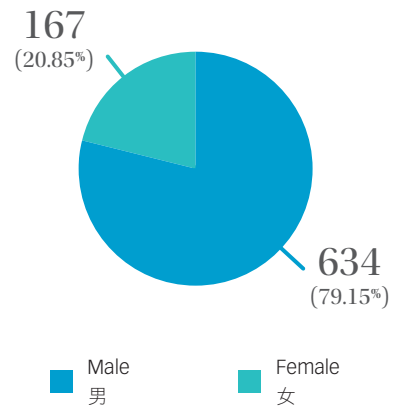
Employee Turnover (Resigned/Retired) Statistics in 2018
二零一八年流失員工（離職／退休）統計

Total number of employees resigned / retired: 801 (Accounted for 8.16% of the total workforce)
離職／退休總數：**801** (佔總人數的8.16%)

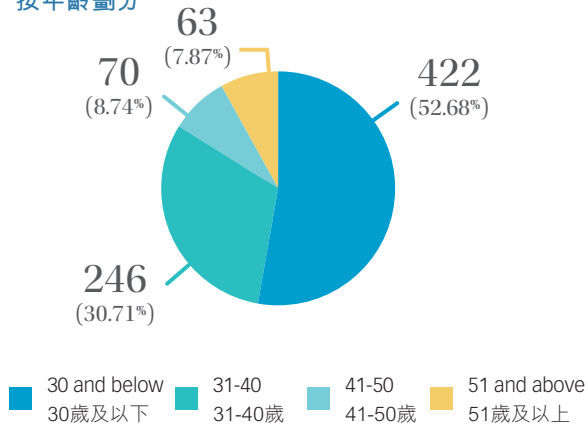
By type
按類別劃分



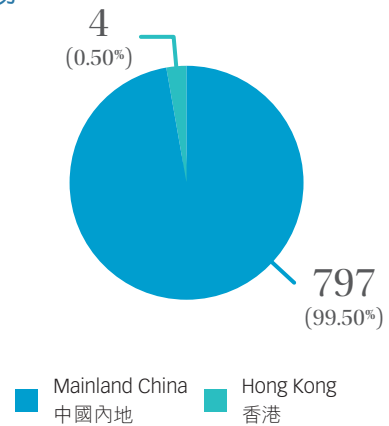
By gender
按性別劃分



By age
按年齡劃分



By geographical region
按地區劃分



As a leading enterprise in the green power generation industry, we value the professional knowledge of our employees. Knowing that training of a senior technician can take 3 to 5 years, the Group monitors the number of employees who are going to be eligible for retirement every year in order to formulate a human resources strategy while providing employees with appropriate career management plans, including retirement arrangements.

作為綠色發電行業的領先企業，我們重視員工的專業知識水平。我們深明培育人才需時，培養一位技術骨幹需時可長達三至五年之久。因此，本集團每年均會統計即將合資格退休的員工數目，長遠考慮及制定人力資源政策，同時為員工提供包括退休安排的妥當職業生涯管理計劃。

Percentage of Employees who will be Eligible for Retirement in 5 and 10 Years (%)

五年及十年內合資格退休的員工百分比(%)

Employee ranking	員工職級	In 5 years 5年內	In 10 years 10年內
Senior management	高級管理人員	6.71%	16.35%
Middle-level management	中層管理人員	2.69%	5.22%
General and technical staff	一般及技術員工	1.76%	3.00%

Training and Development

培訓及發展

With a view to promote mutual growth and sharing of the fruits of success between employees and the Group, Everbright International actively invests in talent training, and is committed to embedding the long-term development of the Group into the personal growth of each employee and exerting the unlimited potential of each employee. During the Reporting Period, the Group has provided trainings to all employees.

為推進集團與員工共同發展及共享成果，光大國際積極投入於人才培訓，致力將企業的長遠發展糅合每位員工的個人成長歷程，發揮每位員工的無限潛力。報告期內，本集團為所有員工提供培訓。

The Group has a comprehensive and measurable employee assessment system to effectively enhance the working quality, competitiveness and enthusiasm of employees. In 2018, all employees received constructive feedback and career planning advice from their performance appraisals, laying a firm foundation for the talent pool and corporate sustainable development.

本集團設有全面、客觀的員工考核制度，有效提升員工的工作質素、競爭力及積極性。二零一八年，所有的員工均從各自的績效考核中得到了具建設性的反饋和職業生涯規劃建議，為人才儲備及企業持續發展打下了堅實的基礎。

Talent Development Scheme

Through providing regular and comprehensive training development to employees, the Group incorporates employee training as a norm in management where training profiles are established to help employees reach their full potential. Under the guidance of the Human Resources Management and Capacity Building Policy, we actively act in line with the career development demands of employees from all ranks to provide them with tailor-made trainings and professional developments, including integrated engineering construction framework and related skills, developments in the waste-to-energy industry, safe production, operation and human resources system, finance and CEO training, etc., and also proactively provide exchange opportunities with local and overseas industry peers. During the Reporting Period, the Group continued to enhance the ESHS Management System and Risk Management System by organising trainings on risk management tool usage. In line with the needs of business development, the Group held trainings on performance appraisal systems and corporate big data applications to enhance overall employees' quality.

Employee Training and Development Statistics in 2018

二零一八年員工培訓與發展數據統計



人才發展計劃

透過為員工提供定期及全面的發展培訓，本集團把員工培訓納入常態管理，建立培訓檔案，務求裝備員工成才。在《人力資源管理培訓政策》的引領下，我們積極配合各職級的員工在職業發展階段的需求，為員工提供度身定造的培訓計劃及專業培訓，如全系統工程建設制度及技能培訓、垃圾發電行業發展培訓、安全生產主題培訓、人力資源系統操作培訓、財務培訓、行政總裁培訓等，更積極為員工爭取與國內外同行交流的機會。在報告期內，本集團進一步深化全系統ESHS管理體系及風險管理體系，並按管理區域舉行風險管理工具使用培訓。另配合業務發展的需要，本集團分別舉行績效考核系統及企業大數據應用等培訓，提升員工整體質素。

Average training hours per employee

員工平均培訓時數

78.81 Hours
小時

Total training hours

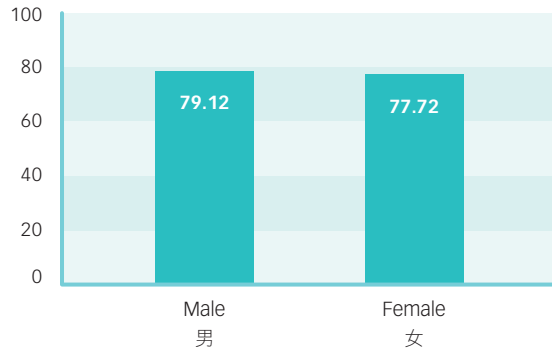
培訓總時數

774,006 Hours
小時

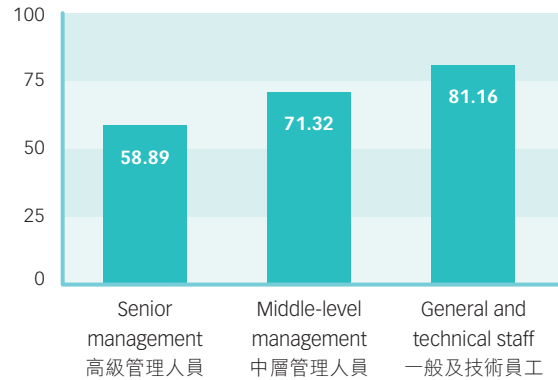
Average Training Hours per Person by Gender and Employee Ranking

按性別和員工職級劃分的人均培訓時數

By gender
以性別劃分

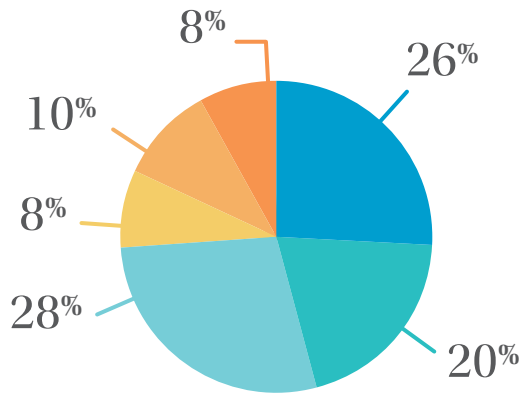


By employee ranking
按員工職級劃分



Percentage of Training Hours by Training Category

按培訓類別劃分的培訓時數比例



Total Training Hours
培訓總時數
774,006

- Health and safety
健康與安全
- New employee training and team building
新入職培訓與團隊建設
- Industry knowledge and technical skills
行業知識與專業技能
- Corporate culture, policies and management systems
企業文化、政策及管理體系
- Personal development (communication skills, time management, stress/emotional management, etc.)
個人發展 (溝通技巧、時間管理、壓力/情緒管理等)
- Others
其他

Distinguished Trainings

- ***Tsinghua University CEO Course***

Throughout the years, we have maintained close relationship with Tsinghua University, and co-organise training courses to improve the leadership and management capabilities of management and core staffs. In 2018, a total of 56 managers and technical leaders completed the Tsinghua University CEO Course (the 7th session) in July 2018. The 8th session of the course, with 55 participants, had already started in October 2018.

- ***Apprenticeship Programme***

The Apprenticeship Programme was officially launched in 2017 with an aim to have skilled technicians leading the new technicians to effectively pass on their valuable technical knowledge and skills, as well as assisting newcomers in formulating a viable career plan. The Programme not only strengthens the link between employees, but also helps new recruits to understand Everbright International's corporate culture more quickly and build a sense of belonging.

- ***Execution Training***

Since 2009, Everbright International has been organising execution trainings every year. The 9-day training covers militarised and outreach training, with an aim of nurturing team spirit among employees and helping new recruits accelerate their familiarity and integration to the Group's culture. In 2018, the 22nd to 25th execution trainings were held with over 1,300 participants.

特色培訓項目

- **清華大學CEO班**

多年來，我們與清華大學保持友好關係，透過聯合舉辦培訓班，提升管理層及骨幹隊伍的領導才能和管理能力。二零一八年，參加清華大學CEO班（第七期）的56位管理層及技術骨幹於二零一八年七月結業；第八期共55位學員已在二零一八年十月開學。

- **「師帶徒」培訓計劃**

「師帶徒」培訓計劃於二零一七年正式開展，主要讓熟練技工帶領新技工工作，有效地把寶貴的技術知識傳承下去，並協助新人制訂可行的職業生涯規劃。該計劃不但加強了員工之間的關係建立，亦有助新入職員工更迅速地了解光大國際的企業文化，並增加對集團的歸屬感。

- **執行力拓展培訓**

自二零零九年開始，光大國際每年均會舉行執行力拓展培訓。該培訓為期九天，涵蓋軍事化和拓展訓練，以培養員工的團隊合作精神，並幫助新員工加快熟悉並融入集團文化。二零一八年舉行了第二十二至二十五次執行力拓展培訓，參加人數超過1,300人。

Strong Execution, Solid Foundation, and Striving to be First-class – Everbright International's Execution Trainings 強執行，塑砥柱，爭一流－光大國際執行力拓展培訓

Since 2009, Everbright International has held a total of 25 execution trainings. In 2018, over 1,300 employees participated in the 22nd to 25th execution trainings.

The 9-day and 8-night military training enhanced participants' execution capability, cohesiveness, combat effectiveness and hard work spirit, and also improved the team's adaptability, sense of mission and responsibility. Not only did these prepared participants for the collaborative growth with Everbright International but also helped participants achieved personal growth and transformation.

Achieving Personal Growth and Transformation

"With this experience, I realised my potential. You never know how strong you are unless you push yourself to the limit."

– **Employee of Xiao County Biomass Power Cogeneration Project (Urban-rural integration project)**

"Our minds were modified and our bodies were trained. We will certainly create a better future in upcoming work and life."

– **Employee of Everbright Water Technological Development (Nanjing) Limited**

從二零零九年至今，光大國際已舉辦了二十五期執行力培訓班。二零一八年共有超過1,300位員工參與第二十二至二十五期執行力拓展培訓。

九天八夜的軍事化訓練增進了學員們的執行力、凝聚力、戰鬥力和拼搏奮鬥的精神，提升了團隊的機動應變能力、使命感與責任感，為光大國際共同成長做好準備。學員們同時也實現了個人的成長和蛻變。

實現個人成長與蛻變

「有了這次經歷，我發現了自己的潛力，不逼自己一把，你永遠都不知道自己有多強大。」

– **蕭縣生物質項目（一體化項目）員工**

「我們的思想得以改造，我們的身體得以鍛煉，在以後的工作和生活中，我們必將創造更美好的未來。」

– **光大水務科技發展（南京）有限公司員工**

**Strong Execution, Solid Foundation, and Striving to be First-class –
Everbright International’s Business Execution Trainings (continued)**
強執行·塑砥柱·爭一流—光大國際執行力拓展培訓(續)

**Enhancing the Team’s Sense of Mission and
Responsibility**

提升團隊的使命感責任感

“I shall bring the inspirations from this training to my work and life to tell everybody that efficient execution can never be achieved without a strong team.”

– **Employee of Zhenjiang Sponge City
Construction PPP Project**

「我要將這次培訓的感悟帶到我的工作和生活中去，告訴身邊的每一個人，有了強大的團隊，才會有高效的執行。」

– **鎮江海綿城市建設
PPP項目員工**

Enhancing the Team’s Execution Capability

提升團隊的執行能力

“Team as priority and practice as the core. Execution is the key to enterprise growth.”

– **Employee of Lankao
Waste-to-energy Project Phase I**

「團隊至上，貴在落實，執行力是企業做大做強的關鍵。」

– **蘭考垃圾發電項目一期
員工**

“I would like to achieve the followings in future work: acquire full understanding and confirmation to received mission, and execute every mission promptly and completely.”

– **Employee of Lingbi
Waste-to-energy Project Phase I
(Urban-rural Integration Project)**

「我想在今後的工作中要做到：對下達的任務充分理解並予以確認；對各項指令任務不折不扣地快速執行。」

– **靈璧垃圾發電項目一期
(一體化項目)員工**



Internal Inheritance and Exchange

The Group values the internal inheritance and exchange of human resources. Our earlier established regions provide support and training to new regions, facilitating the development of new regions with the solid foundation of old regions. We have also formulated flexible and diversified internal personnel support and exchange policies to create a new phase of “learning while doing, doing while learning, helping with supporting”, reinforcing the support from existing projects to the new ones through combining regional human resources.

To help young employees grow into talents, we have been pursuing “Apprenticeship Programme” and “Inheritance Programme” for years. Meanwhile, by combining with operational practice, we have established a training model for young employees named “Double Posts, Double Tutors”, which selects excellent young employees to take up their production position as main post and management position as deputy post. They are assigned with instructors to impart them with technical knowledge and professional management skills respectively. The two instructors subsequently communicate to collaboratively formulate a work plan for the young employee, making use of the spare time to carry out internship at the deputy post to facilitate improvement of employees’ production skillset and management capability. After establishment of “Double Posts, Double Tutors” training model, employees can gain part-time experience in management in advance. If their performance is satisfactory and meets the needs of projects, they can be transferred to the management position and promptly get into their work. This model mobilises employees to be more enthusiastic and initiative, shortens training of young talents, and improves the training coverage and training efficiency.

內部承傳和交流

本集團著重人力資源的內部承傳和交流。我們發展較早的老區域對新區域提供人才支援、培養和輸送計劃，以老區域的堅固基礎帶動新區域的發展，制定了靈活多樣的人才內部支援和交流政策，形成了「學中幹、幹中學、幫帶扶」的新局面，通過集約區域的人力資源，加強了老項目對新項目的支持。

為幫助青年員工成才，我們多年來奉行「師帶徒」和「傳幫帶」培訓計劃，更結合生產工作實際，建立了青年員工「雙崗雙師」培養模式。該培養模式擇優選拔生產崗位的青年員工，以其所在的生產崗位為主崗、管理崗位為副崗，為其配備技能師傅和專業管理師傅，再由兩位導師溝通、協商制定青年員工工作計劃，利用空閒時間開展副崗跟班實習，以促進員工生產技能及管理能力的提升。「雙崗雙師」培養模式建立後，員工可以提前在管理崗位兼職鍛煉，如表現滿意且項目需要，即可轉至管理崗並迅速進入工作狀態。這種模式調動了員工工作的積極性與主動性，縮短了青年人才培養時間，提高了培養覆蓋面和培訓效率。

Welfares and Safeguards, Equality and Integration

Employee Welfares

We provide official employees with comprehensive welfares and safeguards, including life insurance, medical insurance, disability and critical illness coverage, maternity leave and paternity leave, while discretionary bonuses are distributed to encourage outstanding employees. In addition to providing mandatory pension insurance as required by law, we have developed a supplementary pension system as an additional retirement benefit.

To ensure the physical and mental health of employees, free body check and occupational disease prevention inspection are provided every year. During the Reporting Period, we took the lead in introducing free traditional Chinese medicine consultations in certain projects, providing targeted physiotherapy services and suggesting regimens to employees.

Protection of Rights and Interests

The Group's Staff Handbook covers topics such as compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, preventing child and forced labour, and other benefits and welfare, as well as promoting a fair and transparent career platform to ensure employees are not discriminated in any way due to gender, age, ethnicity, nationality, marital status, religion, etc. at work.

The Group attaches great importance to the ethical, personal and professional conduct standards of its employees. All employees are obligated to comply with the Group's Code of Conduct, and the Group anticipates all employees to meet the highest standards set out in the Code of Conduct, including avoiding conflicts of interest, discrimination and harassment, as well as bribery, extortion, fraud and money laundering. Employees are also required to report any violations of the Code of Conduct to the management. In addition, employees' ethical performance is reflected in their appraisals to ensure the Group is operating ethically in our businesses. During the Reporting Period, the Group did not have any violation of the Code of Conduct.

福利保障及平等共融

員工福利

我們為正式員工提供完善的福利和保障，包括人壽保險、醫療保險、傷殘及危疾保障、產假及侍产假等福利，而且派發酌情花紅，鼓勵表現優異的員工。此外，除了提供法律規定的強制性養老保險之餘，我們更為員工貼心製訂了補充養老制度作為額外的退休福利。

為確保員工的身心健康，我們每年均為員工提供免費的身體檢查及職業病防範檢查服務。報告期內，我們更於個別項目率先引進了中醫養生健康義診，為員工提供針對性的理療服務，制訂健康養生方案。

權益保障

本集團的《員工手冊》涵蓋了關於薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、防止童工及強制勞動、以及其他待遇及福利等議題，更提倡了公平公開的就業平台，確保員工在工作中不會因性別、年齡、種族、國籍、婚姻狀況、宗教等因素而受到任何形式的歧視。

本集團極為重視員工的道德、個人及專業操守準則。所有員工須承諾遵守本集團之《員工守則》，本集團期望所有僱員均達到《員工守則》所訂的最高準則，包括避免利益衝突、歧視或騷擾、以及賄賂、勒索、欺詐及洗黑錢等。員工須向管理層報告任何違反《員工守則》的情況。此外，員工的道德表現與其績效評估掛鉤，以確保本集團的運營符合相關之商業道德。我們亦會對疏於職守者、貽誤工作、洩露機密及貪污受賄者予以相應懲處。於報告期間，本集團並沒有任何違反《員工守則》的個案。

The Group has established the Human Rights Policy to support all international norms and codes regarding human rights, including the “UN’s Universal Declaration of Human Rights”, “Guiding Principles on Business and Human Rights” and related regulations of the “UN Global Compact” and the International Labour Organisation. The policy upholds human rights and sets specific guidelines for diversity and inclusion, equal opportunity, reasonable working hours, workplace health and safety, freedom of association, and employee-employer negotiations. We apply our standards with consistency and even go a step further to assess whether our suppliers are engaged in improper labour practices, so that the concept of fair labour is extended throughout the entire supply chain. During the Reporting Period, we were not aware of any incidents human rights violations involving our project companies and suppliers.

The Group implements a fair and competitive remuneration and welfare system. The remuneration is determined based on qualification, experience, nature of work, performance and market conditions to actively create equal employment opportunities. In view of the fact that the human resources distribution in energy and engineering sectors polarizes on male, the Group pays special attention to issues including gender equality and remuneration, with an aim to reduce the impact of gender factors on pay scale and structure.

Everbright International is committed to complying with the legislation on gender rights protection and safeguarding the rights of vulnerable employees, including offering pregnant employees with sufficient maternity leave and male employees with paternity leave. We reserve positions for employees on parental leave, encourage them to re-join the company, and ensure their career development and remuneration are unaffected.

本集團制定了《人權政策》，以支持所有有關人權的國際規範和準則，包括「聯合國世界人權宣言」、「工商業與人權指導原則」以及「聯合國全球契約」和國際勞工組織的相關規定。該政策維護人權，並為多樣性和包容性，平等機會，合理工作時間，工作場所健康和 safety，結社自由以及僱員－僱主談判制定了具體指導方針。我們貫徹始終，甚至評估供應商是否存在相關用工不當的行為，為求把公平的勞工理念延伸至整條供應鏈。於報告期內，我們並未發現任何項目公司和供應商存在侵犯人權之事件。

本集團實施公平及具競爭力的薪酬福利制度，薪酬乃根據資歷、經驗、工作性質、表現以及市場情況計算釐定，積極締造平等的就業機會。有鑑於從事關於能源和工程行業的人力資源分布側重於男性，本集團特別關注性別平等與薪酬待遇等議題，務求減低性別因素對薪酬水平及結構的影響。

光大國際致力遵守有關性別權益保障的法例，並維護弱勢員工的權利，包括給予懷孕員工充足的產假，以及給予男員工待產假等。我們為在產假／待產假中的員工保留崗位，鼓勵他們再次投入公司，並保證其職業發展和薪酬不因受影響。

To enhance the transparency, integrity, accountability and commitment to maintaining a high-level corporate governance standards, the Group has established Internal Reporting and Investigation Method and External Reporting and Investigation Method. These measures are intended to provide reporting channels for employees and any associated person to report fraudulent or unlawful conduct with regards to the Group's financial reporting, internal control or other aspects that may potentially or has already occurred. Reporting channels are set out on the Group's website. No case was reported through the reporting channels in 2018.

為提高本集團運作的透明度、廉潔度、問責性及致力保持一貫高度的企業管治標準，本集團設有《內部舉報及調查辦法》和《外部舉報及調查辦法》。該等辦法旨在為員工／往來人士在保密的情況下就集團財務匯報、內部監控或其他方面可能或已發生的不正當或不合法行為提供舉報渠道，引起本集團關注及調查。有效之舉報方法已載列於本集團網站。於二零一八年，沒有通過舉報渠道收到任何個案報告。



Reporting Channels 舉報方式

Chairman of the Audit Committee

審核委員會主席

ac@ebchinaintl.com

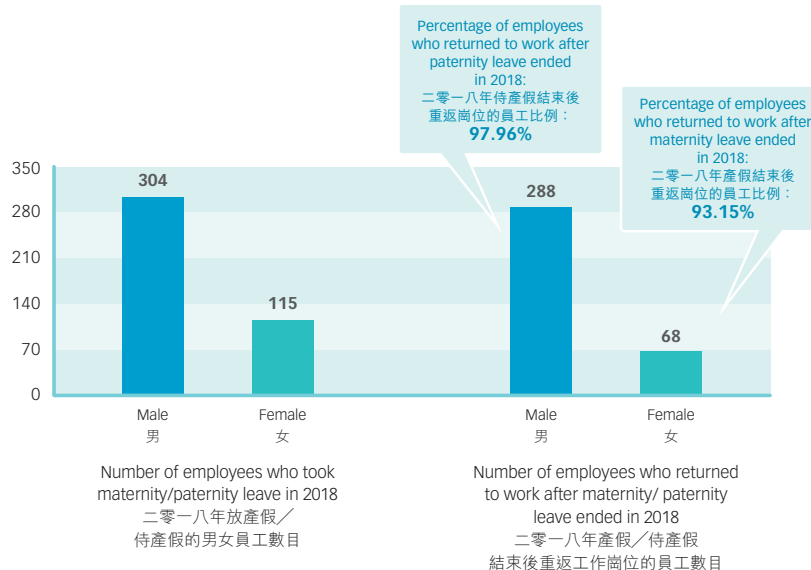
CEO

行政總裁

ceo@ebchinaintl.com

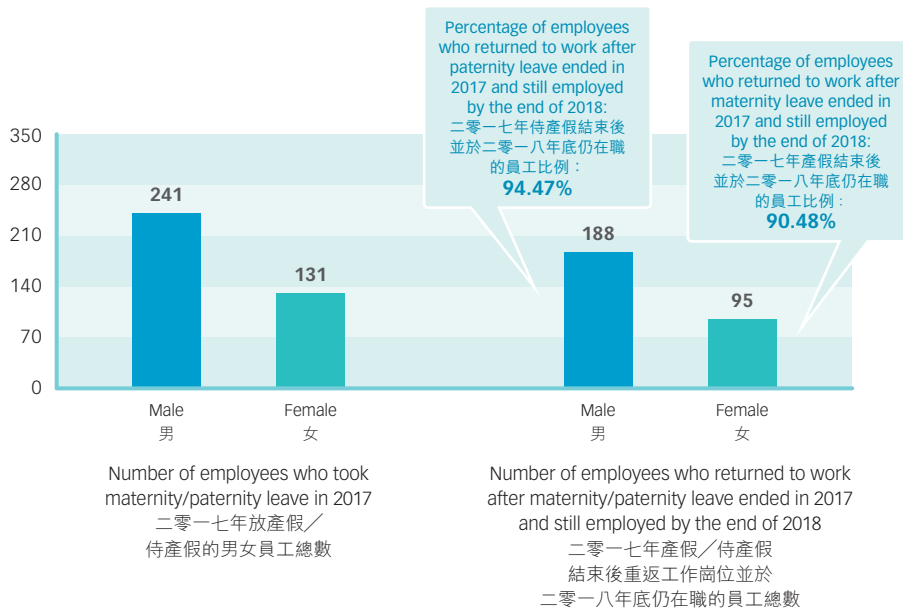
Employee Maternity/Paternity Leave Statistics and Number of Employees who Returned to Work after Maternity/Paternity Leave Ended in 2018

二零一八年產假／待產假數據及產假／待產假結束後重返工作崗位的員工總數



Employee Maternity/Paternity Leave Statistics in 2017 and Number of Employees who were still Employed by the End of 2018

二零一七年產假／侍產假數據及二零一八年底仍在職的員工總數



Listening to Voices of Employees

We believe that employees' opinions help improve our daily operation management, and we strive to provide them with suitable communication channels and platforms. The Group welcomes its employees to communicate with the CEO and/or Chairman of the Audit Committee directly through email, so as to express their thoughts about the Group. Our grievance mechanisms cover different topics including employee relations, human rights, workplace harassment and discrimination, etc., providing employees a platform to share their views, and express their concerns on corporate governance. We also regularly publish internal publications, namely, "Everbright Environmental Protection Newsletter" and "Everbright International Monthly Magazine", allowing employees to receive updated information, grasp the Group's latest development and express their opinions.

聆聽員工心聲

我們相信員工的意見有助我們完善日常的運營管理。因此，我們致力為他們提供合適的溝通渠道和平台。本集團歡迎員工透過電郵與行政總裁及／或審核委員會主席直接進行溝通，以表達對本集團的想法。而我們所設立的申訴機制覆蓋勞資關係、人權、職場騷擾及歧視等多個方面，供員工循序提出申訴、發表意見及提出對本集團管治的關注。我們更定期出版內部刊物－「光大環保報」和「光大國際月刊」，讓員工更快更新地掌握集團資訊和動向，並發表己見。

“Ponder Reform, Discuss Innovation, Promote Development” Proposal Making Activity 「思改革、議創新、促發展」建言獻策活動

In February 2018, Everbright International issued a notice on Launching “Ponder Reform, Discuss Innovation, Promote Development” Proposal Making Activity, taking a visionary approach to conduct proposal making activity. The activity aimed to unite all possible forces, mobilise employees’ enthusiasm, and work together to save energy, reduce consumption and conduct technological innovation. Employees’ intensive brainstorming not only recapitulated their previous works but also boosted the Group’s future development. After the launch of the proposal making activity, all Everbright International’s employees responded enthusiastically, and the suggestions were gathered to promote Everbright International’s development. The proposals covered multiple dimensions including mapping out the Group’s international and domestic development, promoting the construction of talent pool, improving core competitiveness, refining management, and modifying process and equipment. This not only helped the Group to learn comprehensively but also diversified the communication channels for employees to express their opinions, where voices of employees were gathered while increasing their confidence and pride.

在二零一八年二月，光大國際下發《關於開展「思改革、議創新、促發展」建言獻策活動》，高瞻遠矚開展了建言獻策活動。活動旨在團結一切可以團結的力量，調動員工的積極性，群策群力節能降耗、技術革新。員工如火如荼地集思廣益不僅是對前期工作的梳總結理，更是對企業未來發展的一種推動。活動開展後光大國際全體員工均熱烈地響應號召，積極諫言，匯聚成助推光大國際發展的正能量。建議內容涵蓋多個層面，包括為集團的國際化進程和國內發展劃出路線、推進人才隊伍建設、提高核心競爭力、提高管理方式、技改工藝設備等。這不但利於本集團博採眾長，而且豐富了員工的意見表達頻道，聚攏員工的心聲的同時提高了大家的自信心與自豪感。

Work-Life Balance

We hope that the Group is not merely a platform for employees’ career development but also a place where they can enjoy life. Therefore, we actively organise and support various employee activities, and are committed to caring for the well-being of employees as well as promoting work-life balance.

生活與工作平衡

我們希望集團不但是員工成長打拼的平台，更能成為他們享受生活的場所，因此我們積極舉辦和支持各類員工活動，致力關懷員工的福祉，促進生活與工作的平衡。

Cultivating Healthy Lifestyle

Our project companies have established comfortable and well-equipped staff quarters for our employees with multiple recreational facilities including badminton courts, gymnasiums, chess and bridge rooms, libraries, etc., to help employees relax and achieve work-life balance. We also encourage employees to maintain a healthy lifestyle, and thus various leisure and sports activities are organised every year including outdoor activities, fun sports days, basketball friendly matches, photography classes and birthday celebrations, with an aim to promote employees' physical and mental health while enabling them to work energetically, reaching a win-win situation for both the enterprise and employees.

締造健康生活

我們的項目公司為員工建立了舒適而設配套完善的宿舍，包括設有羽毛球場、籃球場、健身房、棋牌室及圖書館等休閒設施，讓員工適時放鬆，平衡工作與生活。我們亦鼓勵員工保持健康的生活方式，持續每年舉辦多項文娛休閒及體育活動，例如戶外拓展活動、趣味運動會、籃球友誼比賽、攝影班及生日慶祝活動等，促進員工身心健康之餘更讓他們活力滿滿地投入工作，締造企業和員工雙贏。

Everbright Environmental Basketball Friendly Match 光大環保籃球友誼賽



On 8 September 2018, the Everbright Environmental Basketball Friendly Match 2018 was held in Everbright Environmental Technical Equipment (Changzhou) Limited. The competition consisted of teams from Technical Equipment, Suzhou Waste-to-energy Project, Changzhou Waste-to-energy Project and Changzhou Xinbei Waste-to-energy Project. With over 40 participants, the whole competition was of high standard with distinguished style and friendship was harvested. Employees fully demonstrated their enthusiasm and commitment to strive for success, enriching their life after work and reinforcing the close brotherhood among units.

二零一八年九月八日，二零一八年度光大環保籃球友誼賽於光大環保技術裝備（常州）有限公司開展。此次比賽分別有技術裝備、蘇州垃圾發電項目、常州垃圾發電項目及常州新北垃圾發電項目的籃球隊，共有逾四十人參加。整個比賽賽出了水準，賽出了風格，更是賽出了友誼，充分展現了員工銳意進取、拼搏向上的精神風貌，在豐富員工業餘生活的同時，也增強了兄弟單位之間的密切聯繫。

Shouguang Project Held the 4th Fun Sports Day 壽光項目舉辦第四屆趣味運動會

On 31 August 2018, Shouguang Waste-to-energy Project held the 4th Autumn Fun Sports Day. It comprised of 5 team events: team rope skipping, squat race, crossing with bridge, under-knee pass, and four-legged race, together with 2 individual events: timed rope skipping and ball clipping. The interesting and interactive Fun Sports Day let everyone not only further experience team spirit but also get away from busy work to love sports and do sports proactively.

二零一八年八月三十一日，壽光垃圾發電項目舉辦了第四屆秋季趣味運動會。運動會共設有集體跳繩、蜈蚣賽跑、搭橋過河、海底傳月、三人四足等五個集體項目和定時單人跳繩、夾珍珠等兩個單人項目。趣味運動會不僅讓大家更進一步體驗了團隊精神，還兼具趣味性與互動性，使大家從忙碌的工作中抽身出來，更熱愛運動、自覺運動。



Nanjing Waste Water Treatment Project Introduced “Cheering Station in Workplace” 南京污水處理項目引進「職場加油站」

Due to special industrial nature and technological requirements, waste water treatment projects are often built in villages or remote areas adjacent to rivers, where the transport systems are inconvenient and supporting facilities are insufficient. The problem of having supplementary food for shift operators and temporary overtime workers cannot be solved for a long time.

In February 2018, Nanjing Waste Water Treatment Project collaborated with Ele.Me platform and introduced “Cheering Station in Workplace”, an openly accessible store at the project plant. Apart from bringing convenience to employees, this has ensured the continuity of work and allowed the employees to feel the care and support from the company.

由於污水處理項目因其特殊的行業性質和工藝要求，基本建設在靠江、靠河的鄉村或偏僻的地方，路程遠交通設施不便捷、商店物資提供等配套設施不健全。倒班運行人員、臨時加班人員等有補充食物需要這一問題長期無法解決。

二零一八年二月，南京污水處理項目與「餓了麼」平台合作，引進了「職場加油站」這一開放式採購模式店鋪進廠。此舉既為員工帶來便利，保障工作的持續性，同時更讓大家切實感受到企業於點點滴滴中對員工的身心關懷。



Encouraging Reading and Knowledge Growth

As a leading enterprise in the environmental protection industry, Everbright International encourages employees to not only be dedicated to work but also act as role model in environmental protection through continuous learning, self-improving, applying knowledge to work and surpassing oneself.

鼓勵閱讀 增長知識

作為環保行業的領軍企業，光大國際不僅鼓勵員工在工作上積極奉獻，同時也要在思想和學習上起到模範帶頭作用，不斷讀書修身、學以致用、超越自我，以最飽滿的精神狀態投身於環保事業。

Envirotech Set up "Reading Corners" 環境科技設立「讀書角」

In April 2018, the Envirotech sector set up "Reading Corners" in various locations in the office. The establishment of "Reading Corners" echoed with General Secretary Xi Jinping's urge of "taking reading and learning as a life attitude" and also cultivated a good reading habit among employees.

二零一八年四月，環境科技板塊於其辦公室的多處設立了「讀書角」。「讀書角」的設立不僅響應了習近平總書記關於「把讀書學習當成一種生活態度」的號召，更培養了員工自覺閱讀的好習慣。



First Joint Reading Group

首屆聯合讀書分享會

On 23 April 2018, Hangzhou Waste-to-energy Project and Hangzhou Solid Waste Centre held the first Joint Reading Group in 2018. Participants included staffs of both units. The event lasted for three hours, and the sharing and exchange of contents were valuable and the results were remarkable. The two units exchanged their views on Monitoring Practice and Understanding of Waste Disposal Industry, covering the monitoring practice of waste disposal in Hangzhou and the understanding of industry monitoring, and also learned the Specification of Municipal Solid Waste Centralised Disposal Service together.

二零一八年四月二十三日，杭州垃圾發電項目與杭州市固廢中心成功舉辦了二零一八年首屆聯合讀書分享會。雙方單位人員參與了此次活動。活動歷時三小時，分享交流內容豐富、成果顯著。雙方就《垃圾處置行業監管實踐與認知》進行交流，具體涉及到杭州垃圾處置監管實踐、行業監管的認知，並共同學習了《城市生活垃圾集中處置服務規範》。



Bringing Festive Warmth

To share festive moments with employees, and to understand and experience cultural customs together, we organise caring and cultural activities to employees and their families during festivals, sending them festive greetings and blessings. Different forms of cultural exchange can improve employees' understanding of the history and festivals, while reinforcing the group cohesiveness.

節日添暖意

為與員工分享喜慶時刻，並一同了解並體驗文化習俗，我們會於節日籌劃相應的員工關懷和文化活動，向員工及其家庭致以節日的問候和誠摯的祝福。不同形式的文化交流不僅能增加員工對歷史和節日認知，當中的彼此關心更提高了團隊的凝聚力。

“Warm your Way Home” 「溫暖你的回家路」

As the Spring Festival approached, Baoying Waste-to-energy Project had adopted the theme “Warm your Way Home”, sending out New Year message to over 20 employees who were away from hometown or were on duty during Spring Festival, with an aim to exchange ideas with employees and deliver care. The project company also provided some bread and a book for the employees during their way home to enrich their journey, and stayed tune with them through WeChat groups. With the majority of employees from outer provinces since the establishment of Baoying Waste-to-energy Project, the project company has assigned designated personnel to accommodate employees' lives and work, and arranges regular employee seminars, with an aim to understand employees' thoughts and working conditions, and to help them via practical actions.

臨近春節，寶應垃圾發電項目公司以「溫暖你的回家路」為主題，向家在外地、春節值守崗位的20多名員工寄去一封新年寄語，旨在與員工交流思想，傳遞感情。同時，還為員工在回家途中準備一些麵包和一本書，豐富他們回家的路途，在微信群組時時關注員工回家最新動態。自寶應垃圾發電項目成立以來，根據外地員工居多的特點，深入推進連心結對工作，指定專門的人對員工生活、工作等方面進行服務，定時組織員工座談會，瞭解員工思想和工作動態，通過實際行動幫助員工。

Welcome Mid-Autumn with Food and Warmth

味濃情濃迎中秋

On 19 September 2018, the “Welcoming Mid-Autumn with Food and Warmth” mooncake DIY activity held by Sanmenxia Waste Water Treatment Project rendered the staff canteen lively. Participants enjoyed the joy of making mooncakes and deepened the understanding to the meaning of Mid-Autumn Festival. With the sweet mooncakes which carried deep blessings, employees felt the warmth of “big family” while enjoying the festive happiness.

二零一八年九月十九日，三門峽污水處理項目的員工食堂熱鬧非凡，公司舉辦「味濃情濃迎中秋」手工月餅DIY活動。大家享受著親自動手的快樂，更深層次的理解了中秋節的含義。香甜的月餅裡包裹著濃濃的祝福，員工們在盡情享受快樂的同時，更感受到一份濃濃的「大家庭」的溫暖。



Employee Birthday Party cum Women's Day Activity 員工生日會暨婦女節活動

This year's "8 March Women's Day" was different from last year, where Hangzhou Waste-to-energy Project Company invited women representatives from 5 neighbouring villages to spend the day with its female employees and birthday stars in the first quarter through holding the first employee birthday party cum Women's Day activity. After arriving the company from different villages, the 25 representatives first visited the company led by a guide to acquire direct understanding of Everbright International's green business. After having meal, they walked to Hangzhou Victory Theatre to watch a fantastic stage play performed by Fun Age Entertainment – "The Count of Wulong Mountain", spending a great night with our employees!

今年的「三八婦女節」和往年有所不同，杭州垃圾發電項目公司特意邀請了周邊五個核心村的婦女代表，與公司女員工及第一季度壽星們共度佳節，舉行了第一季度員工生日會暨婦女節活動。25名來自各村的婦女代表到達公司後，首先由講解員帶著她們進行參觀，對光大國際的綠色事業有了直觀的認識，飯後一起散步至杭州勝利劇院並共同觀賞開心麻花的話劇—《烏龍山伯爵》。話劇十分精彩，村婦女代表與我們的員工一起度過了一個美好的夜晚！



09

SAFETY AND QUALITY ARE OUR TOP PRIORITIES

安全重於泰山 質量生存之本



Superior safety performance is an essential performance indicator in the full cycle of the Group's project management. To provide a safe working environment that is free of injury and accident, the Group adheres to the ESHS Management System to establish standardised operating procedures and on-site checklists for each project. The Group's safety work is always ongoing with an aim to prevent any potential accidents from happening, and strive to eradicate any safety incidents.

卓越的安全表現是本集團整個項目建設和管理過程中不可或缺的關鍵績效指標。本集團堅守ESHS管理體系，於所有項目建立了標準操作流程和現場工作檢查表，致力為員工提供安全的工作環境及保障僱員避免職業性傷害，同時維護公眾安全。本集團的安全工作從不間斷，目的是防微杜漸，致力杜絕安全事故。

2018 Safety Action Highlight

二零一八年安全行動重點



Securing Operational Safety

To ensure operational safety, safety committees are formed for all projects under construction, while a safety management team headed by the general manager and run by the safety and environmental commissioner is set up under each operating project to monitor and manage health and safety issues in every stage of projects. The Group also commenced monthly checks on ESHS Management System to strictly detect violations. Meanwhile, the Group proactively implemented the internationally certified OHSAS 18001/ISO 45001 Occupational Health and Safety Management System in operating project companies.

The project companies of the Group's business sector have dedicated emergency plans to the potential risk of different scopes and management process of plants, with an aim to ensure safety management of project companies and neighbouring communities. The Group formulated emergency risk plans include division of labour and emergency risk measures of departments, person in charge, evacuation and protection measures, emergency rescue measures, external reporting and assistance measures, and insurance claim management measures, etc. The emergency plans are adjusted and improved in accordance with the actual needs evaluated by the assessment mechanism. As regards sudden safety incidents, the Group has a comprehensive crisis management model to reduce the risks and losses of stakeholders. The Group also organises regular emergency drills and practices to raise employees' competency in coping with risk, so that emergency plans can be promptly and effectively practiced when special situations occur.

During the Reporting Period, the Group continued to adhere the foundation principle of "maintaining safe and stable operations while ensuring compliant emissions". Daily checks on safety, environmental and occupational health were proactively conducted as safety risk assessments, so as to ensure all constructing and operating projects comply with all safety policies. The "Safety Production Month" was incorporated into our operation, where safety knowledge have been popularised through proactive and special edutainment like publicities, trainings, seminars, competitions on ESHS knowledge, idea exchange among managers and cross-regional ESHS skill competitions, with an aim to enable effective prevention of safety accidents.

保障安全運營

為保障運營安全，本集團在所有建設項目中設立安全委員會，在運營項目則設立由總經理牽頭、環衛專員執行的安全管理團隊，負責監督和管理項目各個階段的健康和安全管理事宜。本集團更開展月度ESHS管理體系大檢查，嚴格檢測違章行為。同時，本集團積極於運營項目公司推行獲國際認證的OHSAS 18001/ISO 45001職業健康和安全管理體系。

本集團各業務板塊的項目公司均設有專門的應急預案，對應廠區不同範圍和管理流程的潛在風險，為項目公司和鄰近社區的安全管理把關。本集團制定的風險應急預案包括責任部門和責任人、分工、風險緊急處理措施、人員疏散及保護措施、應急救援措施、外部匯報及協助措施、保險理賠管理措施等資訊。應急方案將按評估機制定期按照實際需要作出相應的調整及改進。對於突發重大安全事件，本集團設立完整的危機處理程序，以降低持份者的風險損失。本集團更定期舉辦應急演習和演練，務求提高員工應對危機時的處理技巧，從而在特殊情況發生時能迅速高效地啟動應急預案。

於報告期內，本集團繼續將「安全穩定運營、達標排放」作為基本原則，積極開展安全、環境與職業健康的日常檢查工作，排查安全隱患，確保各在建及運營項目嚴格執行各項安全制度，並結合「安全生產月」，積極透過安全宣傳、培訓、研討會、ESHS知識競賽與交流及跨區域ESHS技能比武等特色活動，以寓教於樂的形式普及了安全知識，為有效防止安全事故提供了有力保障。



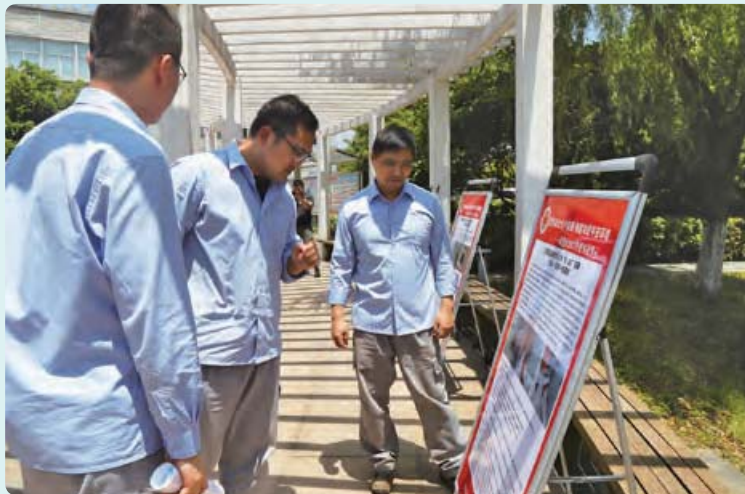
CASE STORY 個案分享

Changzhou Waste-to-energy Project Launched Publicity Campaign for Safety Education Exhibition

常州垃圾發電項目開展安全教育展宣傳活動

In May 2018, Changzhou Waste-to-energy Project launched a publicity campaign for its safety education exhibition. The safety exhibition vividly displayed, through text, pictures and live demonstrations, some typical accidents, administrative punishment cases and precautions in safety production in Wujin District. All employees attentively watched the exhibition boards and learned from accidental cases when discussing and analysing the causes of cases, which greatly improved the employees' safety awareness and safe operation skills.

二零一八年五月，常州垃圾發電項目開展了安全教育展宣傳活動。此次安全宣傳展以文字、圖片和現場演示等形式，生動地展示了武進區部份典型事故、行政處罰案例、安全生產注意事項等內容。全體員工仔細觀看展板，相互討論分析事故原因及從事故案例中吸取的教訓，大大提高了員工安全防範意識和安全操作技能。





CASE STORY 個案分享

Equipment Manufacturing Sector Launched “Snapshot of Safe Production” Activity

裝備製造板塊開展「安全生產隨手拍」活動

In May 2018, the Equipment Manufacturing Sector's Safety Management Department carried out the “Snapshot of Safe Production” activity among the full-time and part-time safety officers. They established a WeChat group among employees, and asked all employees to send photos of violations spotted to the WeChat group. The violations were then assessed and managed by the company's Safety Management Department to curb hiding of violations.

This activity was held in conjunction with the Penalties on Violating Safe and Civilised Production issued by the company, serving as soft lobbying of the safety in sites. Uploaded photos prompted a lot of attention and discussion among employees which greatly promoted their awareness of safe production.

二零一八年五月，裝備製造板塊安全管理部在全職及兼職安全員間開展了「安全生產隨手拍」活動，同時建立了員工微信群，要求將發現的違章現象拍成照片發至微信群，由公司安全管理部對違章現象進行考核管理，讓違章現象無處遁形。

此次活動結合公司發布的《安全文明生產處罰規定》內容實施展開，是對車間現場的一次安全摸底。照片上傳後，引起了員工的廣泛關注和討論，對提高大家的安全生產意識有了很大的促進作用。





CASE STORY
個案分享

Changzhou Waste-to-energy Project Conducted Emergency Drill
against Garbage Room Fire Accident
常州垃圾發電項目開展垃圾倉著火事故應急演練

To improve responsiveness to fire hazards, Changzhou Waste-to-energy Project organised an emergency drill against garbage room fire accident on 21 March 2018.

This drill simulated a fire accident in garbage room caused by fire source in garbage truck. Participants immediately took emergency measures and completed various missions such as reporting, fire fighting, evacuating vehicles, rescuing the injured, and protecting the scene. The practice examined the company's responsiveness and coordination in practicing collaborative emergency rescues, and meanwhile fastened employees' response and improved their operations towards emergencies.

為提高對火災事故的應變能力，二零一八年三月二十一日，常州垃圾發電項目組織開展了垃圾倉著火事故應急演練。

本次演練模擬垃圾車夾帶火源引起倉內火情，參演人員立即採取應急措施，完成了報警、撲救、疏散車輛、搶救傷患、保護現場等各項任務。本次演練從應急反應和協調聯動兩個層面檢驗了公司應對突發事故的協同救援能力，提升了員工的應急反應速度和操作水準。





CASE STORY 個案分享

Electric Shock Emergency Drill at Ji'nan Xike Waste Water Treatment Project 濟南西客污水處理項目觸電事故應急演練

Waste water treatment plants are full of hazards, particularly with large tanks and equipment without enclosure. Therefore, safe use of electrical equipment has been one of the major focuses in occupational health and safety. To practice safe use of electricity, employees are required to ensure a compliance and safe operation as well as to be familiar with the handling of electric shock accidents. In view of this, Ji'nan Xike Waste Water Treatment Project organised an electric shock emergency drill in early February 2018, focusing on the methods to examine the injury level of the victims, including touching the neck artery and checking the pupils to determine whether the victim is in a state of "apparent death". The drill also aimed at familiarising employees with the use of cardiopulmonary resuscitation to provide immediate help to the victim. This drill not only improved the employees' emergency response and rescue capabilities, but also strengthened the employees' awareness of safety, laying a solid foundation for safe production during the Spring Festival.

污水處理廠池高水深，多露天設備，因此安全用電是其中一項職業安全健康重點。要實踐安全用電，除了要確保操作遵守安全規範外，員工尤其需要熟識觸電事故的處理。有鑑於此，濟南西客污水處理項目於二零一八年二月初舉行觸電事故應急演練，重點強調檢查觸電人員傷勢的方法，包括摸頸部動脈、檢查瞳孔等方式，以判斷傷者是否處於「假死」狀態，並要求熟練運用標準的心肺復蘇法對傷者進行急救。此次實戰演練，不但提高了員工對觸電事故的應急反應及救援能力，更給全體員工在思想上擰緊了一道「安全弦」，為春節期間的安全穩定生產奠定了堅實的基礎。





CASE STORY
個案分享

Snow Clearing Despite Bitter Coldness and Safety Securing
through Multiple Measures
不畏嚴寒除積雪，多措並舉保安全

At the beginning of 2018, heavy snowfall across the country triggered safety hazards to the production and living in plant areas. To secure smooth entry and exit of people as well as safe and stable equipment operations, project companies stayed calm in the hour of peril to take immediate actions according to relevant emergency plans and safe operation procedures, enabling operational safety of projects in extreme weather.

二零一八年初，全國各地普降大雪，給廠區生產生活帶來安全隱患。為保障人員出行暢通和設備安全穩定運行，各項目公司臨危不亂，按照相關應急預案和安全運營程序，迅速採取了多方面的行動，使項目在極端天氣下始終守住安全紅線。

Lankao Waste-to-energy Project

蘭考垃圾發電項目

On 4 January, most areas of Henan province recorded heavy snowfall. In response to the huge snowfall and low temperature, Lankao Waste-to-energy Project adopted multiple measures immediately and simultaneously to ensure safe and stable production and operation. At 5am in the morning, production and operation managers had led personnel and security officers to remove the snow on the entrance road of garbage vehicles and weighbridges. They also salted the slope lands and laid grass mats on slippery road sections, giving vehicles and personnel a "safe road" for garbage transportation.

一月四日，河南省普降大雪。針對強降雪低溫天氣，蘭考垃圾發電項目公司迅速行動，多措並舉，確保了生產運行安全穩定。早上五時許，生產運行部經理已帶領運行人員、保安一起清理垃圾運輸車輛入場道路及地磅積雪，並於坡地垃圾運輸道路段進行人工撒鹽及易凍路滑地段進行草墊鋪設，為垃圾運輸車及員工掃出了一條「平安路」。



**CASE STORY**
個案分享**Snow Clearing Despite Bitter Coldness and Safety Securing through Multiple Measures (Continued)**
不畏嚴寒除積雪，多措並舉保安全（續）***Dangshan Biomass and Waste-to-energy Projects*****碭山生物質及垃圾發電項目**

Dangshan Project Company implemented emergency plans against snowy weather since winter to ensure flawless equipment operation by “five security practices”: first, examine equipment comprehensively for risk assessment and prepare back-up equipment in advance; second, put on “winter clothing” for cooling towers, outdoor pipes, valves and fire hydrants to secure normal operation; third, prepare iron shovels, brooms and anti-slip mats to secure safe journey; fourth, forecast weather particularly securing information release to fuel clients to secure safe fuel transportation under snowy weather; fifth, build an collaborative mechanism to remove snow to clear roads heading to company in time so as to secure safe operation and safety of employees when going to work.

入冬以來，碭山項目公司及時啟動冰雪天氣應急預案，「五到位」確保了設備零缺陷運行。第一，對設備全面「體檢」，做好隱患排查，提前備好備品備件；第二，提前為涼水塔、室外管道、閥門、消防栓等設施穿上「冬衣」，確保其正常運行；第三，備好鐵鍬、掃帚、防滑墊等用具，確保出行安全；第四，做好天氣預警，特別針對燃料客戶做好資訊保障工作，確保雪天送料安全；第五，建立除雪聯動機制，及時對公司道路進行清掃，為安全運行和職工出行提供保障。





CASE STORY
個案分享

Snow Clearing Despite Bitter Coldness and Safety Securing
through Multiple Measures (Continued)
不畏嚴寒除積雪，多措並舉保安全（續）

Sanmenxia Waste Water Treatment Project
三門峽污水處理項目

In the snowy morning of 25 January, Sanmenxia Project Company organised a meaningful and fruitful post-snow safety inspection and safety assessment. Adhering to the principle of “zero dead corners and zero risks”, we conscientiously inspected every outdoor equipment, recorded every staircase in our inspection route and every slipper road. 20 post-snow sources of hazard were detected including screen gears, driving tracks, outdoor control cabinet, feed pipes and pipelines. Based on the inspected sources of hazard, we switched our daily static safety management to dynamic management to conduct measures in the right place and time.

一月二十五日，三門峽項目公司在這個大雪紛飛的清晨，組織了一次既有意義又有實際效果的雪後安全特巡及安全評估。我們堅持「不留死角、不留隱患」的原則，認真檢查每一個戶外運行的設備；認真統計每一次巡視路線的樓梯；認真記錄每一處易滑路面。一面巡視一面記錄，我們先後確立了格柵齒輪、行車軌道、戶外控制櫃、加藥管道、設備管路等二十處雪後危險源。根據此次排查出的危險源，我們將日常靜態的安全管理轉換為動態管理，因時因地開展工作。



Health and Safety Training

To integrate ESHS into corporate culture and ensure safe, stable operation, project companies implement work plans to conduct trainings on safety education in various dimensions and through various formats. Safe production responsibility is upheld to lift safe production awareness and ensure safe, systematic work.

健康與安全培訓

為將ESHS融入企業文化，確保生產安全穩定運營，各項目公司均制定了工作方案，多層次、多形式地實施全員安全教育培訓活動，落實安全生產責任制，提高安全生產意識，確保安全工作有序開展。

Total training hours on health and safety

健康與安全培訓數據統計



Total hours of health and safety training 健康與安全培訓總時數

About 約 **202,400** Hours 小時

Average health and safety training hours per employee 平均員工安全及健康受訓時數

Over 超過 **20** Hours 小時

Notes:

(1) Not including Poland municipal solid waste treatment company – Novago.

附註：

(1) 不包括波蘭都市固廢處理公司—Novago。

Through various brand new trainings, we hope to stimulate employees to realise and ponder about safety management, laying foundation to better daily safety production in workplace. Our health and safety trainings cover the followings:

我們希望透過各種別開生面的培訓活動，激發全員對安全管理工作的認知與思考，為更好地開展作業場所日常安全生產管理工作奠定基礎。我們的健康與安全培訓涵蓋以下內容：



Health and Safety Laws and Regulations
健康與安全方面的法律法規



ESHS Management System
ESHS管理體系



Safe Use of Equipment
設備裝置的安全使用



Recognition and Control of Sources of Hazards
危險源的辨識和控制措施



Monitoring and Risk Assessment at Different Risk Levels
風險分級管控和隱患排查



Procurement and Storage of Hazardous Items
採購及儲存危險物品



Emergency Management
事故应急管理



Occupational Health Management
職業健康管理



First Aid
急救

In addition, we further enhanced trainings on employees' occupational health knowledge during the Reporting Period, like training on relevant contents in the newly revised including Prevention and Control of Occupational Diseases, covering contents on labour rights, corporate responsibilities in occupational hygiene management and preventing occupational diseases. We also ensure that employees' feedbacks are collected after the training to facilitate comprehensive evaluation and to determine if there are rooms for further improvement in safety training activities at the corporate and individual levels.

此外，我們更於報告期內進一步加強了對員工的職業健康知識培訓，包括為員工進行關於新修訂的《職業病防治法》相關內容的培訓，介紹了勞動者享有的權力、企業職業衛生管理職責及職業病防治等內容。我們還確保在培訓活動進行後收集員工的反饋意見，以便通過全面評估，確定安全培訓活動在企業及個人層面上有否存在進一步改善的空間。



CASE STORY 個案分享

New Mode of Safety Training 安全培訓新模式

The official launch of “Zibo Safety Supervision” WeChat public account on 10 January 2018 started a new mode of employee safety training. All employees of the project company were required to attempt questions every month from January to December 2018 and attain at least 80 marks every time. These would be included in the monthly appraisal on safety performance which stimulated employees’ enthusiasm to “study, master and practice regulations”. To pass the tests, employees needed to first learn the relevant safety laws and regulations, searched for information online and occasionally discussed with colleagues. This new mode improved the proactiveness of all employees and brought the progress of safety training to a new dimension.

隨著「淄博安監」微信公眾號於二零一八年一月十日正式上線開通，全員安全培訓的一種新模式開始了。項目公司的全體員工需於二零一八年一月至十二月內每月完成線上答題，并且每次分數必須高於80分。我們更將此項工作納入月度安全績效考核，大大激發了員工「學規、懂規、踐規」的熱情。為了答題通過，員工首先需要學習安全的相關法律法規，網上查閱資料，有時還需要互相討論答案。這個新模式提高了全員參與的積極性，安全培訓工作更是上了一個新台階。



CASE STORY
個案分享

Site-wide Fire Protection System Drill and Training at
Guanyun Urban-rural Integration Project
灌雲一體化項目開展全廠消防系統實操培訓

On 28 February, in order to further strengthen the fire safety awareness of personnel in various positions and improve the ability of fire emergency rescue, Guanyun Urban-rural Integration Project invited professional fire management personnel to conduct a site-wide fire protection system drill and training.

The fire management personnel explained the layout of the project's fire protection system, and demonstrated how fire-fighting facilities such as fire hydrants and fire monitors should be used and things to note when using them. Subsequently, the instructors arranged some of the participants to simulate the operation of the fire-fighting facilities and also answered the questions raised by the participants.

Nearly 50 people from the project company's safety and environmental management department, production technology department, production operation department, water treatment center, fuel procurement department, property management company, fuel crushing company and maintenance company participated in the training.

二月二十八日，為進一步強化各崗位人員的消防安全意識，提升火災應急撲救處置能力，灌雲一體化項目邀請了專業消防管理人員進行了一次全廠消防系統現場實操培訓。

消防管理人員講解了項目公司消防系統布局，並現場示範了消防栓、消防炮等設施的操作方法及操作注意事項。隨後，授課人員安排部份參訓人員現場模擬練習消防設施操作，並就參訓人員提出的問題作出了解答。

項目公司安環管理部、生產技術部、生產運營部、水處理中心、燃料採購部、物業管理公司、燃料破碎公司、檢修公司近50人參加了此次培訓。



In 2018, a safety incident occurred due to an employee's non-compliance with safety regulations in the course of operation under Environmental and Greentech sector. In view of that, the Group carried out an inspection into potential safety hazards so as to eradicate the recurrence of similar cases. The Group also launched several sessions of safety training in relation to the entire system to educate employees in safety management and increase their awareness for safety risks such that risks would be eliminated at a premature stage and the Group's safety management standards would be enhanced.

本集團旗下的環保能源及綠色環保板塊於二零一八年內分別發生了一次因一位員工未按規章操作的安全事故。有鑑於此，本集團進行安全隱患排查，盡力杜絕同類情況再出現。本集團亦多次開展全系統的安全培訓工作，讓員工學習安全管理知識、提高安全風險意識、防微杜漸，提升安全管理水準。

Occupational Health and Safety Statistics in 2018⁽¹⁾

二零一八年職業健康與安全數據統計⁽¹⁾



Total working hours 工作總時數



Employees of Everbright International
光大國際員工

19,172,224
Hours 小時



Third-party contractors and subcontractors working onsite
第三方承包商及分包商駐場工人

11,479,712
Hours 小時



Total working hours
總工作時數

30,651,936
Hours 小時



Employees 員工



Number of work-related fatalities
因工死亡個案

2



Rate of work-related fatalities⁽²⁾
因工死亡率⁽²⁾

0.02



Number of high-consequence work-related injuries (excluding fatalities)⁽³⁾
嚴重工傷個案 (不包括死亡個案)⁽³⁾

3



Rate of high-consequence work-related injuries (excluding fatalities)⁽⁴⁾
嚴重工傷率 (不包括死亡個案)⁽⁴⁾

0.03



Number of occupational diseases
職業病個案

0



Number of work-related injuries⁽⁵⁾
工傷個案⁽⁵⁾

12



Rate of work-related injuries⁽⁶⁾
工傷率⁽⁶⁾

0.13



Days of absence from work due to work-related injury
因工傷缺勤日數

651



Third-party contractors and subcontractors working onsite
 第三方承包商及分包商駐場工人



Number of work-related fatalities
 因工死亡個案

0



Number of high-consequence work-related injuries (excluding fatalities)⁽³⁾
 嚴重工傷個案 (不包括死亡個案)⁽³⁾

0



Number of occupational diseases
 職業病個案

0



Number of work-related injuries⁽⁵⁾
 工傷個案⁽⁵⁾

7



Rate of work-related injuries⁽⁶⁾
 工傷率⁽⁶⁾

0.12



Days of absence from work due to work-related injury
 因工傷缺勤日數

109

Notes:

- (1) Not including Poland municipal solid waste treatment company – Novago.
- (2) Rate of work-related fatalities = (Total number of fatalities as a result of work-related injury/Total working hours) x 200,000
- (3) High-consequence work-related injuries (excluding fatalities) refer to work-related injuries that result in an injury from which the worker cannot, does not, or is not expected to recover fully to pre-injury health status within 6 months.
- (4) Rate of high-consequence work-related injuries (excluding fatalities) = (Total number of high-consequence work-related injuries (excluding fatalities)/Total working hours) x 200,000
- (5) Work-related injuries also include work-related fatalities and high-consequence work-related injuries.
- (6) Rate of work-related injuries = (Total number of work-related injuries/Total working hours) x 200,000

附註：

- (1) 不包括波蘭都市固廢處理公司—Novago。
- (2) 因工死亡率 = (因工傷所造成的死亡個案總計 / 工作總時數) x 200,000
- (3) 嚴重工傷 (不包括死亡個案) 是指導致工作者無法或難於六個月內恢復至受傷前健康狀態的工傷。
- (4) 嚴重工傷率 (不包括死亡個案) = (嚴重工傷個案總計 (不包括死亡個案) / 工作總時數) x 200,000
- (5) 工傷亦包含因工死亡及嚴重工傷。
- (6) 工傷率 = (工傷個案總計 / 工作總時數) x 200,000

10

Creating BEAUTIFUL ENVIRONMENT AND GIVING BACK TO THE PUBLIC

創造美好環境，回饋社會大眾

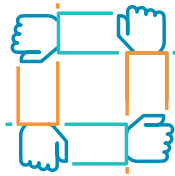


As we work towards becoming a world-leading ecological and environmental group, we never forget our mission as an environmental protection enterprise, and we take social responsibility in a proactive manner. Not only do we contribute to the community through economic contribution, we are also committed to maintaining close relationships with the community through environmental protection education, community engagement, poverty alleviation, climate action, among others. Our operations have substantially helped the integrated development of the community to become a society that is inclusive, resource-efficient, and climate- and hazard-resilient.

在 全力開啟爭創世界一流生態環境集團的新征程中，我們不忘作為環保企業的責任與使命，主動承擔社會責任。我們不只以直接經濟貢獻的方式回饋社會，還致力通過環保教育、社區共融、扶貧濟困、氣候行動等方面與社區維持緊密的關係。我們的運營大大促進了社區的綜合發展工作，使其邁向更包容、資源更有效被利用、以及更能抵禦氣候變化和自然災害的社區。



Quality Education
優質教育



Community Engagement
社區共融



Poverty Alleviation
扶貧濟困



Climate Action
氣候行動

Quality Education

優質教育



42 of our projects were recognised as "Environmental Education Hubs" or "Science Popularisation and Education Hubs"
我們共有 42 個項目獲得「環境教育基地」或「科普教育基地」的稱號



"Everbright International True Love School" has accumulatively provided educational opportunities for 1,440 students
「光大國際愛心學校」已累計為 1,440 名學生提供教育機會

Under the guidance of Donations and Sponsorships Management Measures, the Group consistently devotes resources to empowering and promoting the integration of social, economic and environmental benefits, as well as bringing well-being to the underprivileged. The Group established Everbright International Environmental Protection Charitable Foundation Company Limited in Hong Kong in 2013, which is dedicated to managing “Everbright International Environmental Protection Charitable Foundation” and coordinating all charitable activities of the Group, with the provision of quality education to young people being a key focus. In addition, the foundation has been supporting Heifer International Hong Kong branch’s “Read to Feed” fundraising programme since 2016. Through this programme, we hope to encourage Hong Kong students to develop reading habits, while deepening their understanding on poverty and environmental protection issues. The Group has been supporting the development of “Everbright International True Love School” in Dangshan since September 2011, which has provided educational opportunities for 1,440 students who live in remote areas. In 2018, we sent the thirteenth batch of voluntary teachers to the school, who are passionate staffs aimed to create more opportunities for disadvantaged children.

We have long been proactive in funding environmental protection education to establish environmental education hubs and scientific popularisation and educational experience centres in the Group’s environmental protection facilities in various locations, with an aim to nurture young people and the public’s interest in sustainable development and green lifestyle.

在《對外捐贈、贊助管理辦法》的引領下，本集團持續投入資源以促進和推廣社會、經濟和環境共融，並為弱勢社群謀求福祉。本集團於二零一三年在香港成立光大國際環保公益基金會有限公司，專責管理「光大國際環保公益基金」及協調本集團所有的慈善公益活動，而為青少年提供優質的教育正是其重點工作之一。基金會自二零一六年開始全力支持國際小母牛香港分會的「開卷助人」計劃，鼓勵香港學童養成閱讀習慣，透過閱讀加深對貧困、環保等議題的瞭解。此外，本集團自二零一一年九月支持位於碭山的「光大國際愛心學校」的發展，已為1,440名居於偏遠地區的學生提供教育機會。二零一八年，我們的第十三批由熱心員工組成的義務教師團隊前往愛心學校提供教學支持，希望為弱勢兒童打開更多通往機會的大門。

一直以來，我們積極在環保教育方面投入資金，於旗下各地環保設施中建立環保教育基地和科普教育體驗中心，培養年輕人和公眾對可持續發展和綠色生活方式的興趣。

The Popular “Secondary Classroom” – Waste Sorting Along With Us 「第二課堂」熱起來了—垃圾分類你我同行

As the hub of “Secondary Classroom for Youths” in Hangzhou City, Hangzhou Waste-to-energy Project has launched various types of extracurricular activities through close collaboration with schools in urban districts and surrounding communities of the city.

From 1 July 2018 to 15 August 2018, a total of around 1,000 students visited Hangzhou Waste-to-energy Project. Led by a guide, the students visited a number of facilities, including the environmental education exhibition hall and the central control room, from which they acquired environmental knowledge on the process flow of waste disposal and incineration as well as waste sorting. The students had a fresh environmental protection experience journey.

作為杭州市「青少年第二課堂」的基地，杭州垃圾發電項目與市區及周邊學校等單位建立起緊密聯繫，持續開展各類第二課堂活動。

二零一八年七月一日至八月十五日期間，共有約1,000名學生來到杭州垃圾發電項目參觀。在講解員的帶領下，孩子們參觀了環保教育展廳、中央控制室等區域，瞭解垃圾處置及焚燒發電工藝的流程、垃圾分類等環保知識。孩子們進行了一場別開生面的環保體驗之旅。



Launch of Environmental Protection Journey on “Where does the waste go?” 開啓「垃圾去哪兒」的環保之旅

On 10 August 2018, 41 visitors, including students of Suzhou Hongzhuang Love Cabin and volunteers, visited Wujiang Waste-to-energy Project for the “Technological Environmental Protection Day”, where they explored secrets of the waste-to-energy plant. These students came from schools for migrant children who have limited exposure to issues on technology and nature. This activity helped them realise the importance of environmental protection and implant the idea of going green in every child.

The children said, “Today I have not only learnt about the process flow of advanced waste treatment, but also the high costs incurred in doing so. In the future, we will start from small things, such as waste sorting that is able to turn waste into treasure, and practice a low carbon lifestyle to protect the environment together.”

二零一八年八月十日，蘇州紅莊愛心小屋學生及志願者一行41人走進吳江垃圾發電項目，開展「科技環保日」活動，探尋垃圾發電項目的環保奧秘。此次參觀團學生均來自外來民工子弟學校，平日裏與科技、自然接觸的機會較少，本次活動讓他們認識到保護環境的重要性，在每一個孩子心中播下一顆綠色的種子。

小朋友們表示：「今天不僅見識了先進的垃圾處理工藝，還知曉了垃圾處理的高昂成本。在今後的生活中，要從小事做起，做好垃圾分類，讓垃圾變廢為寶，實踐低碳生活，共同努力保護環境。」



“Little Journalists” in Zhangqiu Waste Water Treatment Project 「新聞小記者」走進章丘污水處理項目

On 31 July 2018, Zhangqiu Morning Post organised 18 “little journalists” to visit and conduct interviews in Zhangqiu Waste Water Treatment Project. They witnessed the purification process of waste water, from which they acquired a more direct understanding on waste water treatment.

Guided by the project representative, the little journalists visited the coarse and fine screens, biological tanks, water outlets and other parts of the production line. The project representative introduced the process flow of waste water treatment and answered their enquires with patience. Through this activity, the little journalists gained knowledge of waste water treatment and understanding on the importance of protecting water resources.

二零一八年七月三十一日，章丘晨報組織18名「新聞小記者」走進章丘污水處理項目進行參觀採訪，見證污水變成清水的過程，讓小記者們對污水處理有了更加直觀的瞭解。

在項目負責人的帶領下，小記者們先後參觀了粗、細格柵，生物池，出水口等生產綫環節。負責人為他們講解污水處理工藝流程，並對大家提出的疑問進行了耐心的解答。通過本次活動，新聞小記者不僅增加了污水處理的相關知識，更認識到保護水資源的重要性。



Community Engagement

Everbright International has been upholding its core value of “Creating better investment value and undertaking more social responsibility”. We not only strive to ensure safe and stable operations and compliant emissions of our projects, but also proactively integrate into neighbouring communities of the projects. The Group has been actively engaging the local communities of the rural areas where its projects are operated for development, such as giving priority to the local residents when the projects have job openings, in order to improve the environment and facilitate industrial upgrading locally and in the surrounding areas. The Group’s Hangzhou Waste-to-energy Project in Zhejiang Province becomes a representative case in the country that solved the “Not In My Back Yard” (“NIMBY”) Effect. The waste-to-energy plant there does not trigger disgust to neighbouring residents, and the green environment of the plant has contributed to a more beautiful rural environment, successfully becoming a good neighbor of the local residents.

In line with the Chinese central government’s pursuit of rural green development, our projects upgrade the rural infrastructure to make them more environmental friendly by improving efficiency of resource utilisation, as well as adopting clean and green technologies. In order to ensure that our projects harmonise with the community, we include social concerns into the beginning of the project life cycle, to ensure that any resettlement associated with our project development will be properly managed in compliance with applicable laws, and all affected people will receive fair and adequate compensation and rehabilitation.

社區共融

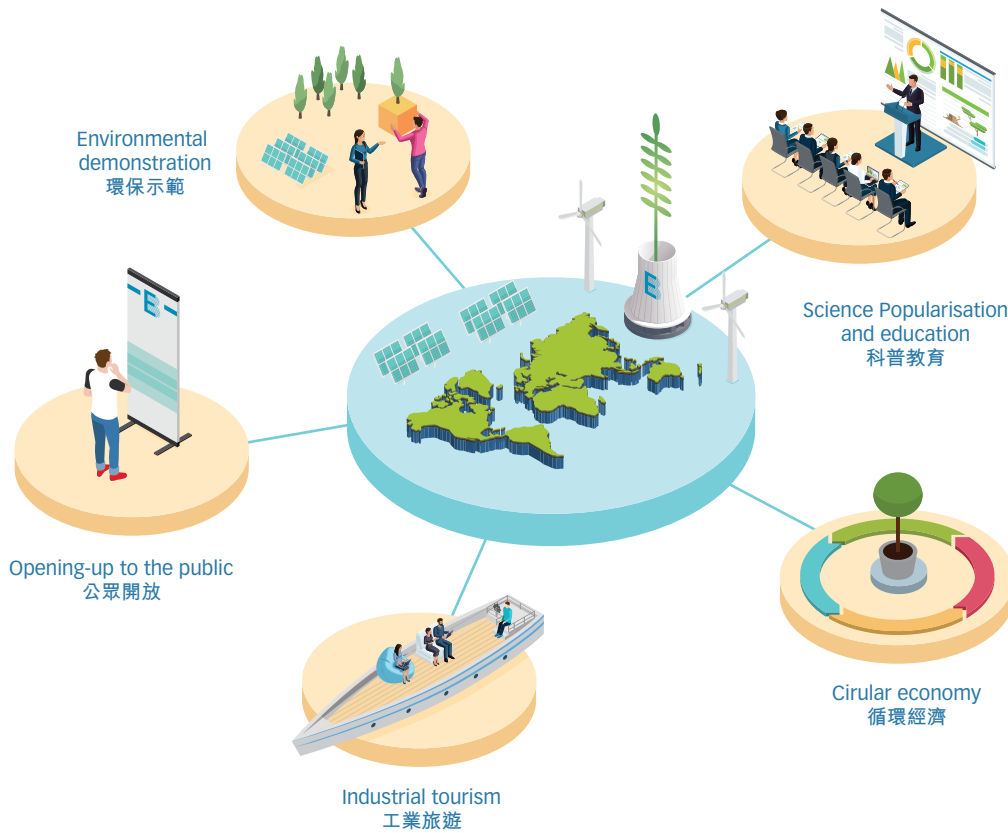
光大國際始終秉承「創造更好投資價值，承擔更多社會責任」的核心價值觀，我們不但致力確保項目安全穩定運行，環保達標排放，更主動融入項目周邊社區，積極實踐村企共建，優先考慮為當地居民提供就業機會，拉動周邊區域的環境改善和產業升級。本集團位於浙江杭州的垃圾發電項目更是國內成功破解「鄰避效應」的典型案列，垃圾發電廠不但沒有讓鄰近的居民產生厭惡感，廠區的綠化環境更為鄉村美化做出貢獻，真正做到垃圾發電廠與民為鄰。

配合中央政府推進鄉村綠色發展的方向，我們的項目提升了鄉村的基礎建設，透過改善資源利用效率和採用清潔、綠色的技術使基建更為環保。為確保旗下運營項目與社區和諧共處，本集團將社會關注點納入項目生命週期的初始階段，從而確保與項目開發相關的移民安置工作按照適用法律進行妥善管理，受影響人士將得到公平、充分的補償和修葺安排。

Apart from serving as the “mobile classrooms” of college, secondary and primary students, our environmental protection projects welcome visits from representatives of different social sectors, with an aim to build benchmark demonstrative hubs with the following diversified elements:

我們的環保項目除了擔當各大高校和中小學生的「移動教室」，更積極接納社會各界代表團參觀考察，務求融合以下元素建立多元的標竿示範基地：

Everbright International's Environmental Protection Projects 光大國際的環保項目



Everbright International is committed to opening up its 77 environmental protection facilities across all business sectors for public visits in the next three years.

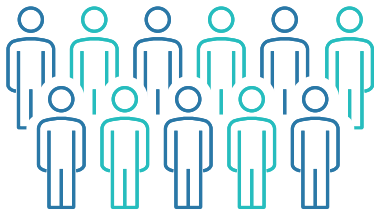
光大國際承諾於未來三年內向公眾開放不同業務板塊77個環保設施。

In 2018, the Group held a launching ceremony in Nanjing and took the initiative to announce that 77 of its environmental protection facilities across all business sectors would be opened up for public visits in the next three years. This has made the Group the only environmental protection enterprise strategically supported by the MEE of the PRC in relation to the initiative of opening up environmental protection facilities to the public. Everbright International has been among the forefront of enterprises, as almost all of our operating projects serve as environmental protection and science popularisation and education hubs in the local areas to give great contributions to the local environmental protection education. In the end of 2018, the Group's Nanjing Waste-to-energy Project, Ji'nan Waste-to-energy Project and Ji'nan Waste Water Treatment Project were among the first batch of environmental protection facilities and municipal waste water treatment facilities for public visits in the country.

二零一八年，本集團在南京舉辦環保設施向公眾開放啟動儀式，率先宣布於未來三年內向公眾開放不同業務領域77個環保設施，為生態環境部重點支持的以企業整體名義將環保設施向公眾開放的中國唯一環保企業。光大國際一直走在行業前列，我們的運營項目基本上皆以環保科普基地的角色在當地建立並運營，為當地的環保教育做出巨大貢獻。二零一八年底，本集團的南京垃圾發電項目、濟南垃圾發電項目與濟南污水處理項目已列入首批全國環保設施和城市污水垃圾處理設施向公眾開放名單。

In 2018

二零一八年



Our projects received **over**
我們的項目共接待 **超過**

151,681

visitors
參觀人次

in **over**
超過

7,200

batches
批次

Nanjing Waste-to-energy Project Opened Up for Public Visits 南京垃圾發電項目向公眾開放

In line with the requirements from the MEE and Ministry of Housing and Urban-Rural Development of the PRC on Guiding Opinions on Promoting Public Visits to Environmental Protection Facilities and Municipal Waste Treatment Facilities, Everbright International's Nanjing Waste-to-energy Project was among the first batch of waste treatment facilities for opening up public visits in the country. To this end, a grand ceremony marking the opening of Everbright International's environmental protection facilities for public visits was held in Nanjing. Over 200 participants from the environmental protection departments of different provinces of the country, enterprises, media and public representatives witnessed this milestone with the Group. Mr. Zhuang Guotai, Deputy Minister of MEE of the PRC and Mr. Wang Tianyi, Chief Executive Officer of Everbright International, delivered speeches in the event and visited Nanjing Waste-to-energy Project to learn in detail the functions and operations of different sections of the project.

配合著生態環境部與國家住建部《關於推進環保設施和城市污水垃圾處理設施向公眾開放的指導意見》要求，光大國際旗下南京垃圾發電項目成為全國第一批向公眾開放的垃圾處理設施之一。為此，光大國際環保設施整體向公眾開放啟動儀式於南京盛大舉行，當中200多名來自全國各省環保廳、企業、媒體和公眾代表共同見證了這一具有里程碑意義的時刻。生態環境部副部長莊國泰先生和光大國際總裁王天義先生出席活動並致辭，並實地參觀了南京垃圾發電項目，詳細了解發電項目各區域功能和運營操作的細節。

Nanjing Waste-to-energy Project Opened Up for Public Visits (Continued)

南京垃圾發電項目向公眾開放（續）

In order to effectively respond to the opening-up initiative, Nanjing Waste-to-energy Project adhered to the highest standards. The project enhanced visiting experience with passion and innovation, and paid great attention to many details in areas like information that is open to the public, forms of presentations and feedback channels. A meticulously designed passageway for visitors has been built in the plant area, while two large electronic screens of around 12 m² on the outer wall of office and on the right of company gate each, displaying the air emission level and furnace temperature. The promotional video on the first floor of the production building provides an overview of the project, while panoramic aerial photography of the project and big data of Everbright International's project operations are available to explain scientific knowledge like danger of municipal waste. On the second floor, diagrams of waste incineration process flow and equipment are displayed on walls along both sides of the corridor outside the control room, so that visitors can better understand the core equipment of waste incineration and operation of grate furnaces. The courses of development of projects and of Everbright International, corporate culture demonstrations and consumed materials in waste incineration are exhibited on the display booths, and interactive and educational activities like waste sorting and interactive games are also provided. The fifth floor is the control room of garbage cranes where waste decomposition takes place, and transportation to incinerators with crane are exhibited.

為有效響應運行項目整體向公眾開放，南京垃圾發電項目按最高規格執行，在參觀體驗上再做提升，添加熱情創新，開放內容、展現形式、反饋方式等細節均一絲不苟。廠區內精心設計和打造了專門的參觀通道，辦公樓外牆上及公司大門右側各設有一塊約12平方米的電子大屏，用於公示煙氣排放指標和爐溫。生產樓一樓大廳的宣傳片讓觀者對項目有大致瞭解，大廳還設有介紹項目概況的全景航拍及光大國際生產大數據，講解生活垃圾的危害以及資源化利用的途徑等科普知識。二樓中控室樓層的走廊兩側牆上是垃圾焚燒發電流程及設備圖，讓參觀者更好地了解垃圾焚燒的核心設備，爐排的工作狀態等。展台上放有項目建設歷程、光大國際發展歷程、企業文化展示、垃圾發電項目處理過程中使用的耗材展品，更設置了具有較強科普性質的互動類項目，如垃圾分類小遊戲等。五樓則是垃圾吊操作室，垃圾在這裡分解，參觀人士可以在這裡觀看垃圾吊抓運垃圾到焚燒爐的過程。

Nanjing Waste-to-energy Project Opened Up for Public Visits (Continued) 南京垃圾發電項目向公眾開放(續)

“Everbright International’s Nanjing Waste-to-energy Project has proven performance in four aspects: factory appearance (a garden like plant), order management (completely odorless within the plant), noise control (no disturbing noise for neighboring communities) and emission indicators (gas emissions superior to international standards). There is no doubt that the plant is a first-class advanced waste-to-energy plant in the country and among the first batch of demonstration entities ascertained by the MEE for public visits. The project is a role model for all waste-to-energy projects in the country.”

Yan Shidong, Centre of Environmental Educations and Communications of MEE

「光大國際南京垃圾發電項目經得起看(花園式工廠)、經得起聞(整個廠區沒有一絲臭味)、經得起聽(噪聲不擾民)、經得起測(煙氣排放全部優於國際標準),確實不愧為國內一流的現代化垃圾發電廠,不愧為生態環境部確定的全國第一批向公眾開放的示範樣板單位,值得全國垃圾發電廠學習並推廣。」

生態環境部宣教中心副主任閔世東

Ji'nan Waste Water Treatment Project Opened Up for Public Visits

濟南水務污水處理項目向公眾開放

Ji'nan Waste Water Treatment Project is a key and large enterprise in waste water treatment sector of Shandong province and Everbright International's first waste water treatment project with over a million tonnes daily waste water treatment capacity. The project focuses on waste water treatment, ensures compliant discharge, and safeguards the local water environment that is in good condition. Meanwhile, it also volunteered to serve as a place for environmental protection education, and took the lead to open up its facilities for public visits during the activity on the initiative of opening up waste water treatment facilities for the public.

Ji'nan Waste Water Treatment Project sets every Friday as Open Day to offer free project tours to the public. The project has multimedia classrooms, sand box models and LED display screens. Alongside unified explanation boards, signage and safety boards in both Chinese and English, promotional videos of science education like Everbright Water Purifier's Mystery Exploration Journey and promotional Leaflet of Environmental Protection Education were meticulously produced to give visitors a comprehensive understanding of waste water treatment process. The project also built an exhibition area to present the technological advancement of the specialised waste water treatment equipment by turning waste water into drinking water. Visitors are accompanied by knowledgeable, skillful and expressive professional guides to solve visitors' enquires at any time. A public WeChat platform is also available for public access by scanning a QR code in order to stay tune with the project's news and science knowledge.

In addition to inviting the public for a visit, the project is also actively reaching out by bringing the Open Day's content with them to visit communities, plazas and campuses during major festivals such as "World Water Day", "World Environmental Day" and "Popular Science Day", thereby raising the public's attention to and support for waste water treatment business by actively promoting the knowledge of waste water treatment.

濟南污水處理項目被譽為山東省污水處理企業的航空母艦，是光大國際首個每日處理污水總量突破百萬噸的污水處理公司。在堅守污水處理本業，穩定達標排放，為當地優良水環境保駕護航的同時，主動開放成為當地的環保課堂，在污水處理設施向公眾開放的活動中，更義不容辭擔起行業領頭羊的責任。

濟南污水處理項目將每週五定為公眾開放日，提供免費講解。項目設有多媒體教室、沙盤模型、LED顯示幕等，統一製作了中英文解說牌、標識牌、安全警示牌，並精心製作了科普宣傳片《光大淨水寶寶探秘記》、《科普環保宣傳手冊》等宣傳材料，使參觀群眾能夠全面直觀地瞭解污水處理流程。項目還結合科技研發成果，建立了獨具特色的污水製備直飲水車間科技成果展示區，使來訪者能瞭解行業的先進技術。開放過程全程配有理論扎實、技術熟練、表達能力強的專業講解員，隨時為參觀者答疑解惑。項目還建有公眾微信平台，公眾可通過掃描二維碼的方式加入微信平台，更加詳細地瞭解項目動態及科普知識。

除了「請進來」，項目還積極「走出去」，帶著公眾開放的內容在「世界水日」、「世界環境日」、「全國科普日」等重大節日進社區、進廣場、進校園，主動宣傳污水處理知識，提高了市民對污水處理事業的關注度和支持度。

From the Masses, To the Masses - Hangzhou Waste-to-energy Project Solved "NIMBY" Effect 從群眾中來，到群眾中去 - 杭州發電項目破解「鄰避效應」

In spring 2017, Hangzhou Waste-to-energy Project was praised by authoritative news media owned by the Chinese central government. On 24 March, People's Daily published a headline news titled with "Hangzhou Solved 'NIMBY' Effect" in the front page, and illustrated how Hangzhou solved the difficulty of 'NIMBY' in nearly 10 thousand words on page 19 of the same issue of the newspaper. Everbright International launched a well-established demonstration project that well tackles the "NIMBY" obstacles.

二零一七年春天，杭州垃圾發電項目頻獲中央權威新聞媒體點讚。三月二十四日，《人民日報》在頭版頭條刊登《杭州破題「鄰避效應」》，並在當期19版用近萬字闡述《杭州解開了「鄰避」這個結》。光大國際將這個「鄰避」痛點項目逆襲建成了精品示範項目。



From the Masses, To the Masses – Hangzhou Waste-to-energy Project Solved “NIMBY” Effect (Continued)

從群眾中來，到群眾中去
– 杭州發電項目破解「鄰避效應」（續）

The Group’s Hangzhou Waste-to-energy Project is currently the country’s largest waste-to-energy project that was constructed all at once, with the highest level of environmental techniques and most stringent environmental emission standard. The project’s gas emissions complies the “ultra low emission” standard which is beyond the Euro 2010 standards. The project is also the country’s first waste-to-energy project that has solved the “NIMBY” Effect and was constructed at the original location. It has been listed as a typical PPP project by the United Nations.

With the progress of urbanisation, Hangzhou has been besieged by garbage. Prior to Everbright International’s entry into this market, the waste incineration plan of Hangzhou city was implemented by a local enterprise. The neighbouring residents worried about the adverse impacts the project would bring to their health and the environment, and strongly opposed against the development of the project. Therefore, the project was halted due to the “NIMBY” Effect. In August 2014, Hangzhou government and Everbright International concluded a strategic partnership agreement and officially signed a project concession agreement based on a BOT model for the waste-to-energy project in Jiufeng in October of the same year.

本集團旗下杭州垃圾發電項目是目前國內單次建設規模最大、環保工藝水平最高、環境排放標準最嚴的垃圾發電項目。項目煙氣排放達到「超低排放」標準，優於歐盟2010標準。該項目還是國內首個成功破解「鄰避效應」、原址重啟的垃圾發電項目、聯合國PPP項目經典案例。

隨著城市化的推進，杭州面臨「垃圾圍城」的窘境。在光大國際入駐之前，杭州市的垃圾焚燒計劃由當地一家企業實施，但周邊的居民擔心項目會對身體健康、環境質量等帶來負面影響，引發了對項目落地的強烈抵制，導致項目因「鄰避效應」而猝停。二零一四年八月，杭州市政府與光大國際就九峰垃圾發電項目簽署戰略合作協議，並於同年十月正式簽署項目的BOT特許經營協議。



From the Masses, To the Masses – Hangzhou Waste-to-energy Project Solved “NIMBY” Effect (Continued)

從群眾中來，到群眾中去
— 杭州發電項目破解「鄰避效應」（續）

Everbright International and Hangzhou municipal government had been collaborating closely since then. From late August to the end of October in 2014, Hangzhou government organised around 5,000 residents from Jiufeng to visit the operating waste-to-energy projects of Everbright International in Changzhou, Ningbo and Ji'nan. The visitors were skeptical about the plants, but they were in awe after seeing the operating projects in person and listening to the detailed explanation. They said “Waste-to-energy plants can be very beautiful!”, “It’s not noisy or smelly. Bravo!”, and “No problems have occurred throughout the years even if the plant is located opposite to residential areas in the same district!”.

The visits over the previous two months demonstrated Everbright International’s sense of responsibility and industrial strength to the local government and villagers, gaining trust from the neighbouring residents and a construction permit was granted in March 2015. During the construction period, the project team followed the “outreaching” approach for mass work, and established a working team on relevant work. In the beginning of trial operation, the project team convened a special meeting to discuss the possible problems and how to properly conduct promotional work to allow the mass understand relevant issues. The project team also visited the villages to explain the project operation to the public in a clear manner and to address their enquiries.

光大國際與杭州市政府密切合作。從二零一四年八月下旬到十月底，杭州市政府組織九峰周邊群眾近5,000餘人次，奔赴常州、寧波、濟南等光大國際已建成的垃圾發電廠進行參觀。周邊群眾在前往參觀的途中，抱有懷疑心理、一路議論紛紛。但是在實地看過光大國際已建成運行的項目、聽取詳細的介紹之後，群眾們由衷感嘆道：「垃圾發電廠原來可以這麼漂亮！」「一點也不吵、一點也不臭，真厲害！」「街對面就是居民區，這麼多年一點問題都沒有！」

兩個月來的參觀讓地方政府和村民見識了光大國際的責任擔當和行業實力，成功贏得周邊居民的信任並於二零一五年三月順利獲得項目施工許可證。在後續的建設歷程中，項目團隊始終堅持貫徹群眾工作「走出去」的理念，成立了專門的工作小組，持續開展群眾工作。在試運行之初，項目團隊召開了專門的會議，討論可能會遇到的問題以及如何做好宣傳教育工作讓群眾充分理解，並派出隊伍深入村莊，以淺顯易懂的方式和群眾解釋項目試運行的相關情況，並解答群眾的疑惑。

From the Masses, To the Masses – Hangzhou Waste-to-energy Project Solved “NIMBY” Effect (Continued)

從群眾中來，到群眾中去
– 杭州發電項目破解「鄰避效應」（續）

The mass work includes outreaching and “bringing in”. Whenever the project company received feedbacks from the public, the company organised meetings quickly and invited local residents to the project company for face-to-face discussions. After understanding the residents’ thoughts and demands, the project team developed solutions and oversaw the implementation accordingly. Local residents were invited to the project for inspection after the problems were tackled in a timely manner. Visitors have come to the project since its official operation, all of whom gave favourable comments. Villagers began to feel that Hangzhou Waste-to-energy Project has integrated in the local community. The reputation from the public best demonstrates Everbright International’s “Golden Brand, Green Business”.

Hangzhou Waste-to-energy Project also proactive interacted with neighbouring villagers and benefited them through village-enterprise co-op. Since the bottom ash generated from waste incineration could be used to make bricks, which could generate some profits, the company decided to give the bottom ash to neighbouring villagers for free so that they could have extra earnings by establishing a factory that produces bricks. Apart from “health concerns”, concerns for future development also need to be solved. The smooth commencement of operation of the project exemplifies how the “NIMBY” effect has been turned into benefits to the neighbouring community.

群眾工作除了「走出去」更要「請進來」，每當接到群眾反饋，項目公司都會立刻組織召開座談會，邀請當地居民來到項目公司進行面對面交流。在切實了解群眾的想法和需求後，立刻著手制定解決方案並督促實施。在問題解決後，也會及時請當地群眾再來項目檢驗。項目正式投運後，百姓陸陸續續前來參觀，一致給予好評，項目團隊在與村民的言談之間已經感覺到杭州垃圾發電項目已和當地社區融為一體，老百姓的口碑就是光大國際「金色品牌，綠色事業」的最佳體現。

杭州垃圾發電項目也積極與周邊村民互動，並主動讓利於民，做好村企共建工作。垃圾焚燒後產生的爐渣可以製磚，可產生利潤。項目公司決定把爐渣免費提供給周圍村落，讓利於民。這樣他們建廠製磚，也能有額外收入。除了解決群眾的「健康憂患」，「發展憂患」也要化解。項目的順利投運無疑是「鄰避效應」化解成「鄰利效應」的良好實證。



Poverty Alleviation

Poverty Alleviation Industry Chain

Through our biomass business, we have built a targeted poverty alleviation industry chain which brings opportunities for decent work and economic growth to China's rural dwellers, and developed a poverty alleviation mechanism that is led by the government, operated by businesses, and runned with market rules. The local governments arrange underprivileged households to collect and sell biomass materials to our operating projects, as a way to provide extra income to the needed while helping to address the local waste treatment problem. The collaboration model breaks new ground to create a situation that benefits the environment, society and economy.

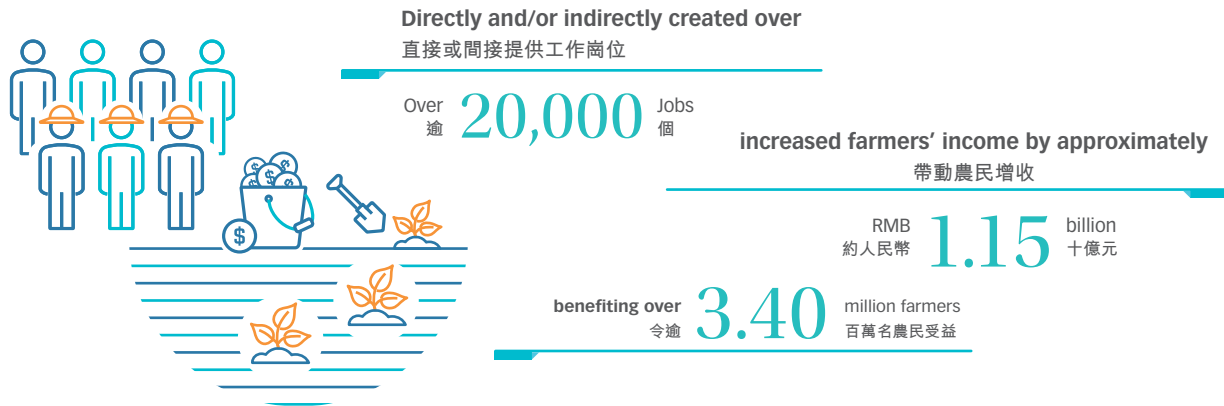
扶貧濟困

扶貧產業鏈

通過我們的生物質業務，我們打造了一個精準的扶貧產業鏈，為中國的農村人口提供更體面的工作和經濟發展機會，並且建立了「政府主導、企業運作、市場運行」的幫扶工作機制。政府透過此模式組織貧困戶收集生物質原料出售予我們的運營項目，為人們提供額外收入的同時有助解決當地的廢物處理問題，開創環境、社會和經濟效益三豐收的新格局。

In 2018, Integrated Biomass Utilisation Projects of Everbright International

二零一八年，光大國際的生物質綜合利用項目



Overview of Charity Work in 2018

二零一八年慈善公益活動概覽



The Group consistently encourages and promotes effective public and civil society partnerships to address local problems. In 2013, the Group's project company in Suzhou is a co-founder of the "Everbright Environmental Protection Charitable Foundation" together with Suzhou City Appearance and Municipal Administration Bureau and Suzhou Charity Federation. In 2018, the foundation continued to provide financial and psychological support to sanitation workers and their families who suffered from financial hardship or critical illness in Suzhou. The tenth and eleventh batches of "Everbright Environmental Protection Charitable Fund" were distributed to sanitation workers in difficulties. As of the end of 2018, the foundation had already supported a total of 1,274 beneficiaries, with a total of over RMB5 million delivered as consolation funds and financial aids.

本集團透過不斷鼓勵和發展有效的公共和公民社會合作，解決當地問題。我們的蘇州項目公司與蘇州市市容市政管理局及蘇州市慈善總會於二零一三年共同發起成立「光大環保愛心基金」。二零一八年，該基金繼續為蘇州環境衛生工人及其家庭就他們的財務困難或嚴重疾病提供經濟及心理支持。第十和十一批「光大環保愛心基金」已發放至困難工人手中，而截至二零一八年底，該基金已累計產生1,274名受益者，共計已發放超過人民幣500萬元慰問金及救助金。

As at 31 December 2018

截至二零一八年底



Everbright Environmental Protection Charitable Foundation
光大環保愛心基金

Total beneficiaries
累計受益人



1,274 人

Accumulated consolation funds and financial aids
累計發放慰問金及救助金



over RMB **5** million
超過人民幣 百萬元

The 11th Batch of “Everbright Environmental Protection Charitable Fund” was Distributed to Sanitation Workers in Difficulties 第十一批「光大環保愛心基金」發放至困難環衛工人手中

On 5 September 2018, representatives of Suzhou Waste-to-energy Project, Suzhou City Appearance and Municipal Administration Bureau, Suzhou Charity Federation and Suzhou Sanitation Department visited two households of sanitation workers who lived in difficulties in the high-tech zone and industrial parks of Suzhou to express sympathy and solicitude. The community care team gave the “Everbright Environmental Protection Charitable Fund” to the workers, and encouraged the workers to overcome difficulties and to keep good attitude in order to get through difficult times as soon as possible.

二零一八年九月五日，蘇州垃圾發電項目會同蘇州市市容市政管理局、蘇州市慈善總會以及蘇州市環衛處等相關單位負責人，共同前往蘇州市高新區及工業園區的兩戶困難環衛職工家中，慰問和看望受困家庭。愛心慰問組送上「光大環保愛心基金」，並勸導和鼓勵他們克服眼前的困難，保持良好心態，儘早走出生活的陰影。



During the Reporting Period, our employees in different locations were actively involved in voluntary poverty alleviation activities. For example, the Group’s Yiyang Waste-to-energy Project Company participated in a charitable event with the theme of “Poverty Alleviation with the Original Aspiration and Sincerity”, in which the project staff visited underprivileged households and expressed sympathy and solicitude to those who lived in difficult circumstances with donations. Meanwhile, the Group’s Yancheng Solid Waste Project participated in the donation campaign that is themed with “Battle against poverty – Aiding Disabled Children with their medical conditions and records”, purchasing insurance against severe illness and accidental disability with pure charitable purposes for 100 underprivileged children aged 0-16 in the county.

報告期內，我們位於各地的員工亦透過義工活動積極參與扶貧助弱工作。例如，益陽垃圾發電項目參與了「踐行初心使命，真情脫貧幫扶」捐款活動，走訪貧困戶，向困難群眾進行慰問，並送上捐款。鹽城固廢項目參與了「脫貧攻堅建檔立卡戶少兒病殘救助」愛心捐贈項目，為100名縣內0-16周歲貧困兒童購買純公益的大病和意外傷殘保險。

**Lighting Up the Brightest Star in the Sky – Representatives of
Suqian Waste-to-energy Project Visited the Local Center for Children's Welfare**
共同點燃夜空中最亮的星—
宿遷垃圾發電項目職工代表慰問兒童福利院

On 17 July 2018, regardless of the blazing sun and hot summer, representatives of Suqian Waste-to-energy Project visited the Center for Children's Welfare in Suqian expressing sympathy and solicitude while bringing coolness and love to children there.

Upon arrival to the welfare centre, the project representatives distributed little gifts such as mosquito repellent and fruits to children in the activity room. They then danced, chatted and played with the children. At the end of the visit, the representatives gave consolation money to the children. The project also expressed the will of forming couplet partnership in the future.

This activity has gained recognition and praise from the head and teachers of the welfare centre. They expressed their willingness to work together and start from small things, with an aim to light the brightest star in the sky with love.

二零一八年七月十七日，驕陽似火，大地一片蒸騰，宿遷垃圾發電項目公司職工代表不畏酷暑前往宿遷市兒童福利院開展慰問活動，為福利院兒童送去清涼和愛心。

到達福利院後，職工代表們將提前準備好的驅蚊劑、水果等帶到活動室分發給孩子們。隨後，與孩子們一起舞蹈、聊天、玩遊戲。最後，慰問代表為孩子們送上了慰問金並與福利院達成了經常進行幫扶活動的意願。

此次活動得到了福利院院長和老師的肯定與讚揚，大家紛紛表示願意攜手同行，從點滴做起，獻出愛心，共同點亮夜空中最亮的星。



Promoting Public Spirit and Delivering Love from Everbright 弘揚公益精神，傳遞光大真情

While we are enjoying the nature or spending time with our family, there is a special group of people living in the same world with us. Due to congenital diseases, they have to leave the warm arms of their beloved before they can feel the wonder of world, and have to live in welfare centers. Many of them have physical or intelligent impairment, but they can still feel love.

On 15 May 2018, employees of Suzhou Waste-to-energy Project including those who had their birthdays during the month visited the disabled people in Suzhou General Social Welfare Centre. They played games and celebrated birthday together to bring love and warmth from Everbright International.



二零一八年五月十五日，蘇州垃圾發電項目員工及當月壽星一起走進蘇州市社會福利總院，看望殘疾朋友們，與他們一起遊戲、玩樂、過生日，給他們帶去光大國際的愛心與真情。

當我們徒步自然、享受造化之美時，當我們和親人牽手閑逛、享受家之溫馨時，同一片藍天下，我們身邊還生活著這樣一個特別的群體：由於先天性疾病，他們還沒來得及感受世界的新奇，就離開溫暖的愛的襁褓。在福利院裏，生活著很多這樣的孤殘人士，他們大多患有肢體和智力上的殘疾，但他們同樣能夠感知到一種無形的信念，那就是愛。

Xiao County Urban-rural Integration Project Visited Local Seniors Home

蕭縣城鄉一體化項目慰問孤寡老人

As the Spring Festival of 2018 approached, Xiao County Urban-rural Integration Project organised a group of staff to visit the local seniors home on 9 February. The team delivered good wishes to the elderly who stayed in the seniors home, and gave rice, noodles, oil and other gifts to them. They chatted with the elderly and listened to their stories. Knowing the spiritual and cultural needs and hobbies of the senior, the team suggested the seniors home to organise chess club, fitness clubs and other activities to enrich the daily lives of the elderly, so as to promote a sense of worthiness and happiness among them.

二零一八年春節來臨之際，二月九日，蕭縣城鄉一體化項目組織慰問團隊前往敬老院，為留守的孤寡老人送去了新春的關懷。慰問團隊為老人們送去了米、麵、油等慰問物資，並與老人們聊天談心，傾聽他們的心聲。瞭解到老人們的精神文化需求和愛好，蕭縣城鄉一體化項目倡議敬老院組織象棋社、健身社等社團，豐富老人們的晚年生活，讓他們老有所為、老有所樂。



Climate Action

The Group highly regards public advocacy for sustainable development and climate resilience, aiming to popularise environmental protection knowledge at all ages. To raise public attention on climate change, "Everbright International Environmental Protection Charitable Foundation" had supported the "Earth Hour" event, which was hosted by the World Wide Fund for Nature (WWF) Hong Kong, as the lead sponsor for the fifth consecutive year.

During the Reporting Period, our project companies also conducted various environmental protection activities, such as tree planting and voluntary activities as ways to support a series of environmental protection events such as the "World Water Day" and World Environmental Day on 5 June. Also, in response to the "I am the Enabler for a Beautiful China" initiative of the MEE of the PRC, we encourage our employees to actively adopt an environmental friendly lifestyle, such as promoting paperless working environment and bringing one's own shopping bag, combining individual efforts into a momentum that thrusts a change.

氣候行動

本集團非常重視有關環保和氣候抗禦能力的公眾倡議，以在各年齡層普及環保知識為己任。為喚起大眾對氣候變化的關注，「光大國際環保公益基金會」連續第五年作為首席贊助機構，全力支持由世界自然基金會（「WWF」）香港分會主辦的「地球一小時」活動。

報告期內，我們的項目公司亦組織了多項環保活動，如植樹和志願者活動等，以響應「世界水日」及「六·五」世界環境日等的環保節日。此外，為響應中國生態環境部門「美麗中國，我是行動者」計劃，我們積極鼓勵員工從生活上實踐環保，例如推行工作環境無紙化和自備購物袋等，希望匯聚各人微小的努力形成一股改變的動力。

Everbright International Environmental Protection Charitable Foundation as Lead Sponsor of Earth Hour Hong Kong for the 5th Consecutive Year 光大國際環保公益基金連續第五年首席贊助香港「地球一小時」

On 24 March 2018, the light-off and countdown of the Earth Hour Hong Kong, which Everbright International Environmental Protection Charitable Foundation had supported as lead sponsor for the fifth consecutive year, was held at the Hong Kong Cultural Centre at Tsim Sha Tsui at 8:30pm. Mr. Wong Kam Chung, Raymond, Director of Everbright International Environmental Protection Charitable Foundation, attended the ceremony together with HKSAR government officials, WWF, guests and citizens on spot to call for the attention of different sectors in Hong Kong to climate change.

Themed with "Let Nature Shine", the 2018 event aimed to urge different sectors of Hong Kong to realise the gravity of climate change. It was hoped to bring hope and changes through low carbon living to facilitate the transformation of Hong Kong into a renewable energy city.

二零一八年三月二十四日，由「光大國際環保公益基金會」連續第五年首席贊助的香港「地球一小時」熄燈倒數活動於晚上8時30分在尖沙咀香港文化中心露天廣場舉行。光大國際環保公益基金會董事黃錦聰先生出席了熄燈儀式，並與特區政府官員、世界自然基金會香港分會以及身臨活動現場的一眾嘉賓及市民，呼籲香港各界關注氣候變化。

二零一八年該活動以「燃亮生態未來」為主題，旨在繼續呼籲香港各界人士意識到氣候變化的嚴重形勢，並透過實踐身邊的環保低碳行動，帶來希望與改變力量，推動香港向可再生能源城市轉型的步伐。



Embracing Spring and Sowing Seeds for a Green Future

擁抱春天，播種綠色

March of 2018 was a good time for tree planting. The project companies of the Group organised such activities with aims of promoting environmental protection for a beautiful home and through actions.

Every year's Arbour Day, the project companies actively encourage their employees to participate in tree planting with their children. It is hoped that children can receive environmental education through this kind of activities and experience the joy and meaning of environmental protection. We hope to pass our responsibility and mission of environmental protection to the next generation, contributing to the promotion of continuous construction of a beautiful China.

二零一八年三月，植樹好時節。本集團各項目公司紛紛組織員工開展植樹活動，以實際行動推行環境綠化，共建美麗家園。

每年植樹節，項目公司都會積極發動員工帶著孩子們一起植樹造林，希望通過這樣的活動，讓孩子們親身接受環保教育，感受環保工作的快樂和意義，將環保的責任和使命傳遞給下一代，為推動持續建設美麗中國做出貢獻。



**Key Associations Joined
by Everbright International**
光大國際參與的主要協會

Biomass Energy Industry Branch of China
Association for the Promotion of Industrial
Development
中國產業發展促進會
生物質能產業分會

Association's Vision 協會抱負

To explore the innovative development of
biomass energy and foster energy transition
in China.

探索生物質能創新發展，推動中國能源
轉型。

Key Activities in 2018
二零一八年重點活動

- Attended the National Technology and Innovation Symposium for Waste-to-energy Industry 2018
參加二零一八年全國垃圾焚燒發電產業技術創新交流大會
- Attended the National Innovation and Development Summit for Agricultural and Forestry Biomass Energy Industry 2018
參加二零一八年全國農林生物質發電行業創新與發展高峰論壇
- Attended the International Seminar on the Clean Utilisation of Biomass Energy
參加生物質能清潔利用國際研討會
- Participated in the production of:
參與錄製拍攝：
 - Promotional video on Agricultural and Forestry Biomass Heating Industry
農林生物質熱電行業宣傳片
 - Promotional video on Public Welfare Relating to Biomass Energy Industry
生物質能源行業公益宣傳片
- Participated in the compilation of:
參與編制：
 - Waste-to-energy Report 2018
《二零一八年垃圾焚燒發電報告》
 - China Biomass Energy Industry Ranking Report 2018
《二零一八年中國生物質能發電產業排名報告》
 - Agricultural and Forestry Biomass Power Generation and Co-generation Industry Development Report 2018
《農林生物質發電及熱電聯產產業發展報告》
 - Research Report on Biomass Energy Tariff
《生物質電價政策研究報告》

**Total amount contributed in 2018 (RMB)/
二零一八年總貢獻費用(人民幣)：200,000**

E20 Environmental Platform
E20環境平台

Association's Vision 協會抱負

To leverage on the platform's ability to help
environmental protection enterprises grow
and assist local government to actively
explore environmental solutions.

利用平台的力量幫助環保企業成長，協助地
方政府積極探索環境解決方案。

- Attended the 12th Solid Waste Strategy Forum
參加第十二屆固廢戰略論壇

**Total amount contributed in 2018 (RMB)/
二零一八年總貢獻費用(人民幣)：280,000**

Key Associations Joined by Everbright International

光大國際參與的主要協會

Chinese Society for Environmental Sciences
中國環境科學學會

Association's Vision 協會抱負

To improve scientific knowledge of the public and cultivate a rich scientific atmosphere to contribute to the ecological conservation and environmental protection. 提高全民科學知識，營造良好科學文化氛圍，為生態文明建設和環保事業貢獻力量。

Key Activities in 2018

二零一八年重點活動

- Attended the annual meeting
參加年會
- Attended the "Environmental Science Popularisation Day" Activity
參加「環保科普日」活動
- Organised the "National Environmental Science Popularisation Creative Competition"
舉辦「全國環保科普創意大賽活動」

**Total amount contributed in 2018 (RMB)/
二零一八年總貢獻費用（人民幣）：1,900,000**

China Ecological Civilisation Research and Promotion Association
中國生態文明研究與促進會

Association's Vision 協會抱負

To develop thorough understanding of the challenges of ecological conservation and actively promote ecological conservation. 深入研究生態文明建設的挑戰，積極推進生態文明建設。

- Attended the "Environmental Protection Equipment and Technology Forum"
參加「環保裝備與技術論壇」
- Attended the "Leading Company in Green Development for Household Waste-to-Energy Industry" Activity
參加生活垃圾焚燒行業綠色發展標杆企業創建活動
- Attended the "World Environmental Day" Activity
參加「世界環境日」活動

**Total amount contributed in 2018 (RMB)/
二零一八年總貢獻費用（人民幣）：2,550,000**

All-China Environment Federation
中華環保聯合會

Association's Vision 協會抱負

To gather strengths from all social circles and jointly participate in environmental protection to promote the development of China environmental industry. 團結各方面的力量，共同參與環保工作，促進中國環境事業發展。

- Co-authored UNECE People-first PPP Waste to Energy Guideline with Xi'an Jiaotong University
與西安交通大學聯合編寫《聯合國環境規劃署以人為本固廢變能源PPP模式工作指南》

**Total amount contributed in 2018 (RMB)/
二零一八年總貢獻費用（人民幣）：650,000**

**Key Associations Joined
by Everbright International**
光大國際參與的主要協會

World Environment Magazine
世界環境雜誌社

Association's Vision 協會抱負

To stay align with the latest global environmental trend and provide China's decision-makers with constructive advice on environmental issues

緊貼全球最新的環境趨勢，為中國的環境決策者提供富建設性的意見。

Key Activities in 2018
二零一八年重點活動

- Organised the "Red Capital" Ecological Protection Activity
舉辦中國「紅都」生態環保行

**Total amount contributed in 2018 (RMB)/
二零一八年總貢獻費用(人民幣)：1,000,000**

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Joining hands towards
**THE SUSTAINABLE
DEVELOPMENT GOALS**
攜手踐行可持續發展目標



SUSTAINABLE DEVELOPMENT GOALS

可持續發展目標

With the vision to become a world-leading ecological and environmental management group in the next 5 to 10 years, Everbright International has a vital interest in the SDGs of the United Nations and had been striving for all SDGs over the past years. The Group is devoted to help address the world's most pressing environmental, social and economic problems by actively connecting our decision-making process with the SDGs.

懷著在未來五到十年將光大國際打造成全球領先的生態環境集團的宏願，本集團積極關注聯合國可持續發展目標，並在過去數年一直朝著各可持續發展目標奮鬥。我們將可持續發展目標逐步融入企業核心決策過程，以助緩解世界上最迫切的環境、社會和經濟問題。

Environment

環境



Ensure healthy lives and promote well-being for all at all ages
確保健康的生活方式，
促進各年齡段人群的福祉

We accord top priority to environmental protection performance of our projects. Therefore, we strictly control stack emissions in all incineration operations by implementing stringent operational procedures with frequent inspections and extensive supervision. We also pay particular attention to the effective control of fugitive emissions at our projects to prevent air pollution. Our waste-to-energy projects are designed and operated fully in compliance with the "Standard for Pollution Control on the Municipal Solid Waste Incineration" (GB18485-2014) with the daily average values of online continuously monitored parameters well below the respective emission limits as stipulated under the Euro 2010 standards; all of our biomass combustion operations meet the "Emission Standard of Air Pollutants for Thermal Power Plants" (GB13223-2011). 我們高度重視項目的環保表現。故此我們採納了嚴謹的操作程序和高頻率的檢查，嚴格控制所有焚燒運營的煙氣排放量。我們亦特別關注項目無組織排放的有效控制，避免造成空氣污染。我們的垃圾發電項目的設計及運營完全符合《生活垃圾焚燒污染控制標準》(GB18485-2014)，當中煙氣在線監測指標日均值全面優於歐盟2010標準中的相關排放限值；所有生物質燃燒的運營則達《火電廠大氣污染物排放標準》(GB13223-2011)。

Our hazardous waste and solid waste treatment business can safely handle over 90% of hazardous waste types listed in the National Catalogue of Hazardous Wastes, hence effectively minimising public health risk.

我們的危廢及固廢處置業務亦可安全處置《國家危險廢物名錄》超過90%的危廢種類，大大減低大眾的健康風險。



Ensure availability and sustainable management of water and sanitation for all
為所有人提供水和
環境衛生並對其進行
可持續管理

Our waste water treatment projects effectively treat waste water strictly in compliance with national standards and produce high quality industrial reusable water to help soothe water quality and sanitation problems.

我們的污水處理項目嚴格按照國家標準有效處理污水，並生產高質量的工業回用水，以協助舒緩水質和衛生問題。



Ensure access to affordable, reliable, sustainable and modern energy for all
確保人人獲得負擔得起的、可靠和可持續的現代能源

We generate clean energy by utilising household waste and agricultural and forestry waste, thus relieving pressure on landfills and resolving the waste crisis.

我們利用生活垃圾及農林廢棄物生產清潔能源，從而減輕填埋場壓力，破解垃圾圍城危機。



Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation

建造具備抵禦災害能力的基礎設施，促進具有包容性的可持續工業化，推動創新

We developed a unique business model of urban-rural integration combining biomass utilisation projects and waste-to-energy projects to provide one-stop services for integrated treatment of agricultural and forestry waste and rural household waste as in a pioneering attempt in ecological environmental management in county areas.

我們開發出獨特的城鄉一體化業務模式，將生物質處理項目與垃圾焚燒發電項目融為一體建設，統籌處理農林廢棄物及農村生活垃圾，開創了縣域生態環境治理的先河。

In addition, our Envirotech and Environmental Energy sectors continued in boosting their efforts in R&D, including the development of Jiangyin Waste-to-energy Project Phase III, the first-of-its-kind project with the use of high-strength and high-speed turbine generation technologies in China, which generates electricity at 600 kWh per tonne of waste; our first self-developed 850 tonnes/day grate furnace rolled off the production line, filling the gap relating to locally manufactured large-scale grate furnaces in China.

此外，我們的環境科技及環保能源板塊持續推進各項研發課題的開展加大科研投入，包括成功打造江陰垃圾發電項目三期成為全國首個採用高參數和高轉速汽輪機技術的項目，噸垃圾發電量達600千瓦時；自主研发的首台日處理850噸大型焚燒爐排亦成功下線，填補中國國產大容量焚燒爐排的空白。



Make cities and human settlements inclusive, safe, resilient and sustainable
建設包容、安全、有抵禦災害能力和可持續的城市和人類住區

Waste disposal is a serious environmental issue and social challenge brought by urbanisation. Our waste-to-energy projects effectively reduce the volume of household waste through thermal treatment, while the majority of bottom ash produced from waste incineration can be used to produce bricks, thus relieving pressure on landfills and resolving the waste crisis. Through our urban-rural integration projects, we introduced advanced waste treatment facilities into the rural villages, thereby laying a foundation to support sustainable rural development in China by preventing waste disposal and related pollution problems before they arise.

廢物棄置是城市化帶來的嚴重環境問題和社會挑戰。我們的垃圾發電項目透過熱處理有效地減少生活垃圾體積，而焚燒垃圾產生的爐渣則可用於製磚，從而減輕填埋場壓力，破解垃圾圍城危機。通過城鄉一體化項目，我們將先進的垃圾處理設施引入農村，預防廢物棄置及其相關污染問題發生，從而為中國農村的可持續發展奠定了基礎。

Our sponge city projects improve cities' ability to absorb, store, infiltrate and purify rainwater for more effective drainage and rainwater reuse, thus enhancing the flood resilience of cities.

我們的海綿城市項目則可改善城市的吸水、儲水、滲水和淨水能力，更有效疏導和回用雨水，從而提高城市的耐洪能力。



Ensure sustainable consumption and production patterns
採用可持續的消費和生產模式

The Eco-recycling sector is committed to expanding business in the areas of household waste sorting, sanitation services and renewable resources utilisation, aiming to develop a full industry chain on waste sorting and resources utilisation.

本集團的生態資源板塊主要致力於拓展生活垃圾分類、環衛作業服務以及再生資源利用三個領域的相關業務，旨在打造垃圾分類資源利用的完整產業鏈。



Take urgent action to combat climate change and its impacts
採取緊急行動應對氣候變化及其影響

Our waste-to-energy projects and integrated biomass utilisation projects offset GHG emissions through avoidance of fugitive release of methane generated from the degradation of household waste and biomass raw materials and the production of green electricity that replaces the use of fossil fuel power.

我們的垃圾發電項目及生物質綜合利用項目透過避免生活垃圾和生物質原材料的降解所引致的無組織甲烷釋放及產生綠色電力以替代化石燃料能源的使用，從而抵消溫室氣體排放。



Conserve and sustainably use the oceans, seas and marine resources for sustainable development
保護和可持續利用海洋和海洋資源以促進可持續發展

Our projects' site selection complies with stringent environmental impact assessment requirements, which prevent the water bodies and ecological sites nearby the project site from adverse effect.

我們的項目選址均符合嚴格的環評準則，防止對項目周邊的水體和動物棲息地帶來不利影響。



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

保護、恢復和促進
可持續利用陸地生態系統，
可持續管理森林，防治荒漠化，
制止和扭轉土地退化，
遏制生物多樣性的喪失

Our waste-to-energy projects help tackle the waste problem in an environmentally sound manner. This results in the avoidance of waste in landfills which could cause environmental problems and affect ecosystems.

我們的垃圾發電項目以無害環境的方式應對垃圾問題，避免了垃圾於填埋傾倒所導致的環境問題及對生態系統的影響。



Strengthen the means of implementation and revitalise the global partnership for sustainable development

加強執行手段，重振
可持續發展全球夥伴關係

We have been partnering with institutions such as ADB, China Development Bank, etc., to collaboratively promote clean energy and environmental protection. We have also been actively expanding our International Business sector. By leveraging on our advantages in investment, operation, management, technology and equipment, we proactively communicate with international peers, and explore regional and international cooperation opportunities.

我們一直與亞發行及國家開發銀行等機構合作，攜手宣揚清潔能源及環境保護。我們更積極拓展國際業務板塊，充分調動自身於投資、運營、管理、技術及設備等方面的優勢，並透過與國際同業交流，搭建區域性、國際性的合作平台。

Social

社會



End poverty in all its forms everywhere

在全世界消除一切形式的貧困

We seek to facilitate targeted poverty alleviation as we develop our integrated biomass utilisation business in rural areas, where we investigate possibilities to provide business and job opportunities for local farmers. With the commencement of project operations and the establishment, improvement and development of the biomass intake and storage systems, we have developed a strategy of “Increasing Income for Farmers, Ensuring Development for the Enterprise, and Procuring Mutual Success for Multiple Parties” which will drive the rural economy in direct and indirect ways to lift villagers from poverty.

我們在開展生物質綜合利用業務的同時也會考慮與精準扶貧的對接，並探索為當地農民提供創業和就業機會的可能性。隨著項目的投產以及生物質收儲體系的建立、完善和發展，我們打造出「農民增收、企業發展、多方共贏」的戰略，直接和間接帶動農村經濟，幫助人口脫貧。



End hunger, achieve food security and improved nutrition and promote sustainable agriculture

消除饑餓，實現糧食安全，改善營養狀況和促進可持續農業

Our food waste treatment projects turn food waste into compost, which can in turn support the agricultural development of our project neighbourhoods. Our projects are capable of treating a total of 300 tonnes of food waste per day.

我們的餐廚垃圾處理項目把餐廚垃圾轉換為堆肥，從而支持鄰近地區的農業發展。我們的項目每天能夠處理300噸的餐廚垃圾。



Ensure healthy lives and promote well-being for all at all ages

確保健康的生活方式，促進各年齡段人群的福祉

We proactively cooperate with the government to promote good health and well-being, including working with local governments on the promotion of anti-drug messages and formulating destruction plans on drugs and expired medicines.

我們積極與政府合作，宣揚健康和福祉，包括與地方政府合作推廣禁毒訊息、展開毒品及過期藥品焚毀計劃等。



Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
 確保包容和公平的優質教育，讓全民終身享有學習機會

Our environmental protection projects have been selected as environmental popularisation and education hubs and act as demonstration sites for circular economy and industrial tourism. We also proactively open up our projects for public visits, offering every individual with opportunities to understand how environmental infrastructures tackle pollution and improve the community's living environment.

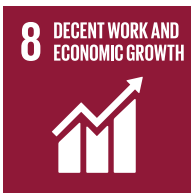
我們的環保項目被選為環保科普教育基地，並作為循環經濟和工業旅遊的示範項目。我們亦積極開放項目供公眾參觀，給予大眾機會以了解環保基礎設施如何處理污染及改善社區的居住環境。



Achieve gender equality and empower all women and girls
 實現性別平等，增強所有婦女和女童的權能

We ensure that our human resources management structure, including compensation, training opportunity, career prospect, etc., is not affected by gender biases, thus achieving gender equality.

我們確保我們的人力資源管理架構，如薪酬水平、訓練機會及就業前景等不受性別影響，從而實現性別平等。



Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
 促進持久、包容和可持續經濟增長，促進充分的生產性就業和人人獲得體面工作

Through investment, construction and operation of advanced waste-to-energy facilities, we drive the development of upstream waste collection industries as well as downstream metal and bottom ash recycling industries, completing a sustainable waste management industry chain.

我們透過投資、建造及運營先進的垃圾發電設施帶動了上游垃圾清運行業及下游金屬和爐渣回收行業，形成完整的可持續廢物管理產業鏈。

Our integrated biomass utilisation projects are located in rural areas, where our operations can foster local economic development through job opportunities and improved infrastructure services.

我們的生物質綜合利用項目都是位於市郊地區，因此我們的運營可以提供當地就業機會及改善基礎設施，從而推動當地經濟發展。



Reduce inequality within and among countries

減少國家內部和
國家之間的不平等

We pay special attention in adopting methods to ensure that our project operations do not affect the dignity, rights, livelihood, or culture of indigenous peoples.

我們特別關注採取措施以確保項目運營不會影響原住民的尊嚴、權利、生計或文化。



Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

創建和平、包容的社會
以促進可持續發展，
讓所有人都能訴諸司法，
在各級建立有效、
負責和包容的機構

To uphold the public's right to know and to appreciate the importance of public supervision, we promote environmental justice by initiating disclosure of air emissions data of our operating waste-to-energy projects on the public domain on an hourly basis. 為了擁護公眾的知情權和意識到公眾監督的重要性，我們通過按小時公布各垃圾發電運營項目的煙氣排放數據，從而倡導環境正義。

In terms of social justice, we follow the requirements of ADB to mainstream social concerns into the beginning of project life cycle, thus ensuring that any resettlement associated with our project development will be properly managed in compliance with applicable laws, and all affected people will receive fair and adequate compensation and rehabilitation.

在社會正義方面，我們遵循亞發行的要求，將社會關注點納入項目生命週期的初始階段，從而確保與項目開發相關的搬遷安置工作將按照適用法律進行妥善管理，受影響人士將得到公平、充分的補償和修復安排。

We also strive to promote a peaceful and inclusive working environment. Our Staff Handbook and Code of Conduct prohibit unethical issues such as corruption, bribery, conflict of interest and discrimination within our working environment.

我們亦致力創建和平及包容的工作環境。我們的《員工手冊》及《員工守則》禁止我們的工作環境內出現貪污、受賄、利益衝突和歧視等不道德問題。

The Group has been striving to support the SDGs throughout the past years. In order to review our existing measures and to explore more opportunities to contribute to sustainable development, this year, we have conducted a comprehensive review and for the first time developed long-term business targets connecting to relevant SDGs. This would strengthen our role in promoting sustainable development in China and worldwide.





In addition, we have fully achieved our 2018 targets. Setting targets drives our continuous innovation and improvement in performance as well as value creation.

本集團在過去數年一直朝著各可持續發展目標奮鬥。為了檢視我們的現行措施和尋求更多為可持續發展目標作貢獻的機會，本年度我們進行了全面的檢討，首次制定了長期目標，並與相關的可持續發展目標相連繫，以便於我們在推動中國乃至全球的可持續發展擔當重要角色。

此外，我們已全面達成了我們的二零一八年目標。目標的設立將推動我們不斷力求創新以提升我們的表現和價值創造。

Long-term targets

長期目標

Material Topics 實質性議題	Targets 目標	Progress as at 31 December 2018 截至二零一八年十二月 三十一日的表現	Relevant SDGs 相關可持續 發展目標
Technological R&D 科研及開發	To reach accumulated technological R&D investment of RMB1 billion throughout the 5-year period of 2018-2022 科研及開發於五年間（二零一八至二零二二年）的累計投放資金達人民幣10億元	Accumulated technological R&D investment reached RMB209 million (i.e. about 21% of the target achieved) 累計投放科研及開發資金達人民幣2.09億元（已完成目標約21%）	
Social Integration 社區共融	To receive 120,000 visitors at our environmental protection facilities in every year throughout the 5-year period of 2018-2022 環保設施於五年間（二零一八至二零二二年）每年接待參觀人數達120,000人次	In 2018, our environmental protection facilities received a total of 151,681 domestic and foreign visitors from all circles 於二零一八年，環保設施共接待國內外各界人士參觀考察共151,681人次	 
Occupational Health and Safety 職業健康與安全	To maintain the rate of work-related injuries of employees at 0.25 or below in every year throughout the 5-year period of 2018-2022 工傷率於五年間（二零一八至二零二二年）每年維持在0.25或以下	The rate of work-related injuries of employees was 0.13 in 2018 二零一八年員工工傷率為0.13	

Review of 2018 Targets

二零一八年目標回顧

Aspect 範疇	Targets 目標	Achieved 已達成	
Environment 環境	Total GHG emissions offset 總溫室氣體排放抵消量	increase by 10% compared with the previous year 較去年增長10%	✓
	Air emissions intensities (in terms of particulate matter, sulphur dioxide and nitrogen oxides) of waste-to-energy and integrated biomass utilisation projects 垃圾發電項目及生物質綜合利用項目的主要煙氣(顆粒物、二氧化硫和氮氧化物)排放密度	at levels not higher than the respective averages of the past three years 分別不高於過去其三年的平均水平	✓
	Direct GHG emissions (scope 1) from sources other than household waste incineration ⁽¹⁾ 由生活垃圾焚燒以外來源引致的直接溫室氣體排放(範疇一) ⁽¹⁾	not more than 162,700 tCO ₂ e 不多於162,700噸二氧化碳當量	✓
	Energy indirect GHG emissions (scope 2) 能源引致的間接溫室氣體排放(範疇二)	not more than 406,800 tCO ₂ e 不多於406,800噸二氧化碳當量	✓
	Total non-renewable energy consumption 非再生能源消耗總量	not more than 5,264,400 GJ 不多於5,264,400吉焦	✓
	Total fresh water consumption 淡水消耗總量	not more than 41,158,000 m ³ 不多於41,158,000立方米	✓
	Total waste disposed 廢棄物棄置總量	not more than 957,200 tonnes 不多於957,200噸	✓
Society 社會	Farmers' income from integrated biomass utilisation projects 生物質綜合利用項目帶動農民收入	increase by 30% compared with the previous year 較去年增長30%	✓
	Average training hours per employee 員工平均培訓時數	60 hours 60小時	✓
	Average health and safety training hours per employee 健康與安全培訓平均員工時數	10 hours 10小時	✓
	Rate of work-related injuries 工傷率	at a level not higher than the average of the past three years 不高於過去三年的平均水平	✓
	Overall customer satisfaction rate 客戶整體滿意度	score 8.5 out of 10 8.5分(滿分為10分)	✓

Aspect 範疇	Targets 目標	Achieved 已達成	
Operation 運營	Effective complaints from the public 有效的公眾投訴	not more than 5 cases 不多於5宗	✓
	Contractors and suppliers participated in sustainability risk assessment 參與可持續風險評估的供應商和承包商	amounting to 10% of the total contract values 佔總合同價值的10%	✓

Note:

- (1) GHG emissions (scope 1) from the incineration of household waste are calculated based on the fraction of fossil carbon in total carbon content of the household waste. The amount of such GHG emissions may substantially fluctuate from time to time due to the varying composition of the received household waste, which is beyond Everbright International's control.

附註：

- (1) 生活垃圾焚燒引致的溫室氣體排放（範疇一）以生活垃圾中化石碳佔總碳的比例為計算基礎。因此，生活垃圾成分的差異可對此溫室氣體排放不時造成大幅波動，這不屬於光大國際的控制範圍之內。

Economic Performance 經濟表現

		2018 HK\$'000 港幣千元	2017 HK\$'000 港幣千元	2016 HK\$'000 港幣千元
Direct Economic Value Generated	產生的直接經濟價值			
Revenue	收益	27,227,998	20,043,116	13,971,204
Other Income ⁽¹⁾	其他收益 ⁽¹⁾	738,914	555,232	494,916
Other Income and gains/(losses), net	其他收入及收益(虧損)淨額	(57,139)	56,936	(39,775)
Economic Value Distributed	分配的經濟價值			
Staff Costs	員工開支	1,819,874	1,354,891	893,032
Other Costs	其他成本	17,087,553	12,412,569	8,448,038
Finance Costs	財務費用	1,376,010	938,280	639,584
Dividends	股息	1,275,082	1,075,852	918,957
Taxes ⁽²⁾	稅項 ⁽²⁾	507,194	386,921	303,625
Profit attributable to non-controlling interests	非控股權益應佔盈利	950,540	541,857	251,710
Charitable donations ⁽³⁾	慈善捐款 ⁽³⁾	7,558	24,615	4,014
Economic Value Retained	留存的經濟價值			
Retained for Everbright international's sustainable operation and development	留存作光大國際的可持續運營和發展	4,885,962	3,920,299	2,967,385

Operational Performance 運營表現

		Unit 單位	2018	2017 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	2016 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)
Business Performance	業務表現				
On-grid green electricity supplied	供應綠色上網電量	kWh 千瓦時	8,294,419,000	5,100,200,000	3,364,517,000
Household waste processed	生活垃圾處理量	Tonne 噸	20,062,000	11,992,000	9,007,000
Biomass raw materials processed	生物質原材料處理量	Tonne 噸	3,160,000	1,685,000	728,000
Hazardous waste processed	危廢處置量	Tonne 噸	127,052	113,031	99,639
Waste water treated ⁽⁵⁾	污水處理 ⁽⁵⁾	m ³ 立方米	1,271,248,000	1,187,615,000	1,148,279,000
Leachate treated ⁽⁶⁾	滲濾液處理量 ⁽⁶⁾	m ³ 立方米	4,349,000	2,694,000	1,724,000

Environmental Performance⁽⁷⁾ 環境表現⁽⁷⁾

		Unit 單位	2018	2017 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	2016 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)
GHG Emissions⁽⁸⁾		溫室氣體排放⁽⁸⁾			
Scope 1 (direct emissions) ⁽⁹⁾	範疇一 (直接排放) ⁽⁹⁾	Tonne CO ₂ e 噸二氧化碳當量	22,125,837.27	10,288,917.31	4,954,848.72
– incineration of household waste ⁽¹⁰⁾	– 生活垃圾焚燒 ⁽¹⁰⁾	Tonne CO ₂ e 噸二氧化碳當量	21,946,297.95	10,184,768.13	4,913,407.79
– other sources	– 其他來源	Tonne CO ₂ e 噸二氧化碳當量	179,539.32	104,149.18	41,440.93
Scope 2 (energy indirect emissions) ⁽⁹⁾	範疇二 (能源引致的 間接排放) ⁽⁹⁾	Tonne CO ₂ e 噸二氧化碳當量	366,340.00	270,864.60	368,037.96
Scope 3 (other indirect emissions) ⁽¹¹⁾	範疇三 (其他間接排放) ⁽¹¹⁾	Tonne CO ₂ e 噸二氧化碳當量	27,317.40	23,170.34	5,114.10
Total GHG emissions	溫室氣體排放總量	Tonne CO ₂ e 噸二氧化碳當量	22,519,494.67	10,582,952.25	5,328,000.78
GHG emissions intensity	溫室氣體排放強度	kg CO ₂ e/kWh 公斤二氧化碳當量/ 千瓦時	2.72	2.08	1.58
GHG emissions offset	溫室氣體排放抵消量	Tonne CO ₂ e 噸二氧化碳當量	10,811,827.04	7,115,107.57	4,684,983.96
Net GHG emissions	淨溫室氣體排放量	Tonne CO ₂ e 噸二氧化碳當量	11,707,667.63	3,467,844.68	643,016.82
Net GHG emissions intensity	淨溫室氣體排放強度	kg CO ₂ e/kWh 公斤二氧化碳當量/ 千瓦時	1.41	0.68	0.19
Key Air Emissions⁽¹²⁾		主要煙氣排放⁽¹²⁾			
Particulate matter	顆粒物	Tonne 噸	275.82	204.00	128.13
Sulphur dioxide (SO ₂)	二氧化硫	Tonne 噸	1,497.44	1,069.00	587.36
Nitrogen oxides (NO _x)	氮氧化物	Tonne 噸	7,993.22	4,709.00	3,577.46
Direct Energy Consumption⁽¹³⁾		直接能源消耗⁽¹³⁾			
Natural gas	天然氣	GJ 吉焦	64,175.16	40,866.13	86,519.33
Diesel	柴油	GJ 吉焦	2,425,927.64	125,890.82	28,315.26
Gasoline	汽油	GJ 吉焦	468,537.30	Data not available 沒有相關數據	Data not available 沒有相關數據
Biogas	沼氣	GJ 吉焦	181,488.69	150,176.12	Data not available 沒有相關數據
Non-renewable electricity	非再生能源電力	GJ 吉焦	1,687,357.22	1,307,232.70	1,290,061.28
Renewable electricity	可再生電力	GJ 吉焦	3,618,791.23	2,499,211.81	1,440,182.62
Total energy consumed	總能源消耗量	GJ 吉焦	8,446,277.24	4,123,377.58	2,845,078.49
Energy intensity	能源強度	kJ/kWh 千焦/ 千瓦時	1,018.31	808.47	845.61

		Unit 單位	2018	2017 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	2016 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)
Water Consumption		耗水			
Total water consumed	總耗水量	m ³ 立方米	49,894,568.65	54,770,444.79	23,189,260.59
Water intensity	耗水強度	m ³ /kWh 立方米/ 千瓦時	0.01	0.01	0.007
Hazardous Waste Generated		有害廢棄物產生			
Fly ash generated from waste-to-energy projects and integrated biomass utilisation projects (waste-to-energy)	垃圾發電項目和生物質綜合利用項目(垃圾發電)所產生的飛灰	Tonne 噸	634,277.55	413,975.77	235,884.16
Fly ash and bottom ash generated from hazardous waste incineration projects	危廢焚燒項目所產生的飛灰及爐渣	Tonne 噸	7,633.81	6,578.15	Not applicable 不適用
Total hazardous waste generated	有害廢棄物產生總量	Tonne 噸	641,911.36	420,553.92	235,884.16
Hazardous waste intensity	有害廢棄物強度	Tonne/MWh 噸/ 兆瓦時	0.08	0.08	0.07
Non-Hazardous Waste Generated		無害廢棄物產生			
Furnace ash generated from integrated biomass utilisation projects (biomass)	生物質綜合利用項目(生物質)所產生的爐灰	Tonne 噸	163,431.90	92,644.69	40,188.45
Bottom ash generated from waste-to-energy projects and integrated biomass utilisation projects	垃圾發電項目和生物質綜合利用項目所產生的爐渣	Tonne 噸	4,337,424.15	2,872,461.88	1,826,449.60
Sludge generated from waste-to-energy projects and waste water treatment projects ⁽¹⁴⁾	污水處理項目和垃圾發電項目所產生的污泥 ⁽¹⁴⁾	Tonne 噸	980,411.55	756,249.14	726,077.20
Office waste ⁽¹⁵⁾	辦公室廢棄物 ⁽¹⁵⁾	Tonne 噸	604.00	Data not available 沒有相關數據	Data not available 沒有相關數據
Total non-hazardous waste generated	無害廢棄物產生總量	Tonne 噸	5,481,871.60	3,721,355.71	2,592,715.25
Non-hazardous waste intensity	無害廢棄物強度	Tonne/MWh 噸/ 兆瓦時	0.66	0.73	0.77

Social Performance⁽⁷⁾⁽⁹⁾ 社會表現⁽⁷⁾⁽⁹⁾Employee Profile⁽¹⁶⁾ 員工概況⁽¹⁶⁾

		2018	2017 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	2016 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)
Total Number of Employees	員工總數	9,821	7,627	3,478
By Gender	按性別劃分			
Male	男性	7,686	5,952	2,629
Female	女性	2,135	1,675	849
By Age	按年齡劃分			
30 and below	30歲及以下	4,488	3,575	1,602
31-40	31-40歲	3,653	2,726	1,220
41-50	41-50歲	1,319	1,050	468
51 and above	51歲及以上	361	276	188
By Employment Contract	按合約類別劃分			
Permanent contract	長期合約	8,439	Data not available	Data not available
Temporary/fixed-term contract	臨時/定期合約	1,382	沒有相關數據	沒有相關數據
By Employment Type	按受聘類比劃分			
Full-time	全職	9,818	Data not available	Data not available
Part-time	兼職	3	沒有相關數據	沒有相關數據
By Employee Ranking	按員工職級劃分			
Senior management	高級管理人員	477	407	141
Middle-level management	中層管理人員	1,264	895	367
General and technical staff	一般及技術員工	8,080	6,325	2,970
By Geographical Region	按地區劃分			
Mainland China	中國內地	9,730	7,567	3,478
Hong Kong	香港	68	56	Data not available
				沒有相關數據
Singapore	新加坡	4	4	Data not available
				沒有相關數據
Vietnam	越南	19	0	0
Local employees ⁽¹⁷⁾	本地員工 ⁽¹⁷⁾	7,341	5,739	2,891
Foreign employees ⁽¹⁷⁾	外地員工 ⁽¹⁷⁾	2,480	1,888	587
By Ethnicity	按民族劃分			
Han	漢族	9,656	7,421	3,379
Ethnic minorities	少數族裔	165	206	99

New Employees and Employee Turnover 新聘及離職員工

		2018		2017 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)		2016 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	
		Total number of persons 總人數	Percentage of employees in this category 佔該類別員工 百分比	Total number of persons 總人數	Percentage of employees in this category 佔該類別員工 百分比	Total number of persons 總人數	Percentage of employees in this category 佔該類別員工 百分比
Total Number of New Employees	新聘員工總數	2,914	29.67%	2,650	34.74%	652	18.75%
By gender	按性別劃分						
Male	男性	2,317	30.15%	2,159	36.27%	529	20.12%
Female	女性	597	27.96%	491	29.31%	123	14.49%
By age	按年齡劃分						
30 and below	30歲及以下	1,809	40.31%	1,676	46.88%	428	26.72%
31-40	31-40歲	906	24.80%	744	27.29%	166	13.61%
41-50	41-50歲	171	12.96%	212	20.19%	43	9.19%
51 and above	51歲及以上	28	7.76%	18	6.52%	15	7.98%
By Geographical Region	按地區劃分						
Mainland China	中國內地	2,899	29.79%	2,638	34.86%	652	18.75%
Hong Kong	香港	13	19.12%	11	19.64%	Data not available 沒有相關數字	
Singapore	新加坡	0	0%	1	25.00%	Data not available 沒有相關數字	
Vietnam	越南	2	10.53%	0	0%	Data not available 沒有相關數字	
Local employees ⁽¹⁷⁾	本地員工 ⁽¹⁷⁾	2,106	28.69%	1,919	33.44%	415	14.35%
Foreign employees ⁽¹⁷⁾	外地員工 ⁽¹⁷⁾	808	32.58%	731	38.72%	237	40.37%
Total Number of Employee Turnovers (Resigned/Retired)	員工流失(離職/退休)總數	801	8.16%	563	7.38%	233	6.70%
By Gender	按性別劃分						
Male	男性	634	8.25%	441	7.41%	189	7.20%
Female	女性	167	7.82%	122	7.28%	44	1.67%
By Age	按年齡劃分						
30 and below	30歲及以下	422	9.40%	301	8.42%	123	7.68%
31-40	31-40歲	246	6.73%	172	6.31%	61	5.00%
41-50	41-50歲	70	5.31%	54	5.14%	26	5.56%
51 and above	51歲及以上	63	17.45%	36	13.04%	23	12.23%
By Geographical Region	按地區劃分						
Mainland China	中國內地	797	8.19%	551	7.28%	233	6.70%
Hong Kong	香港	4	5.88%	11	19.64%	Data not available 沒有相關數字	
Singapore	新加坡	0	0%	1	25.00%	Data not available 沒有相關數字	
Vietnam	越南	0	0%	0	0%	Not applicable 不適用	

Training and Development 培訓及發展

		2018 Hours 小時	2017 Hours 小時 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	2016 Hours 小時 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)
Total Training Hours	總培訓時數	774,006.01	789,842.76	207,335.05
Average Training Hours Per Employee	員工平均培訓時數	78.81	103.60	59.61
By Gender	按性別劃分			
Male	男性	79.12	114.00	56.80
Female	女性	77.72	66.47	68.31
By Employee Ranking	按員工職級劃分			
Senior management	高級管理人員	58.89	30.30	49.56
Middle-level management	中層管理人員	71.32	38.82	74.23
General and technical staff	一般及技術員工	81.16	117.53	58.27

Health and Safety 健康與安全

		2018	2017 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)	2016 (re-stated ⁽⁴⁾) (經重列 ⁽⁴⁾)
Employees	員工			
Number of work-related fatalities	因工死亡個案	2	0	0
Rate of work-related fatalities ⁽¹⁸⁾	因工死亡率 ⁽¹⁸⁾	0.02	0	0
Number of occupational diseases	職業病個案	0	0	0
Number of high-consequence work-related injuries (excluding fatalities) ⁽¹⁹⁾	嚴重工傷個案 (不包括死亡個案) ⁽¹⁹⁾	3	1	1
Rate of high-consequence work-related injuries (excluding fatalities) ⁽²⁰⁾	嚴重工傷率 (不包括死亡個案) ⁽²⁰⁾	0.03	0.01	0.01
Number of work-related injuries ⁽²¹⁾	工傷個案 ⁽²¹⁾	12	11	7
Rate of work-related injuries ⁽²²⁾	工傷率 ⁽²²⁾	0.13	0.17	0.19
Days of absence from work due to work-related injury	因工傷缺勤日數	651	731	399
Third-Party Contractors and Sub-Contractors Working Onsite	第三方承包商及分包商駐場工人			
Number of work-related fatalities	因工死亡個案	0	0	0
Rate of work-related fatalities ⁽¹⁸⁾	因工死亡率 ⁽¹⁸⁾	0	0	0
Number of occupational diseases	職業病個案	0	0	0
Number of high-consequence work-related injuries (excluding fatalities) ⁽¹⁹⁾	嚴重工傷個案 (不包括死亡個案) ⁽¹⁹⁾	0	0	0
Rate of high-consequence work-related injuries (excluding fatalities) ⁽²⁰⁾	嚴重工傷率 (不包括死亡個案) ⁽²⁰⁾	0	0	0
Number of work-related injuries ⁽²¹⁾	工傷個案 ⁽²¹⁾	7	15	7
Rate of work-related injuries ⁽²²⁾	工傷率 ⁽²²⁾	0.12	0.24	0.25
Days of absence from work due to work-related injury	因工傷缺勤日數	109	664	79

附註：

- (1) Represents other costs, share of profits of joint ventures and share of loss of associates but excludes depreciation and amortisation for the year.
代表年度的其他成本、所佔合營企業盈利及所佔聯營公司虧損，但不包括年度的折舊及攤銷。
- (2) Represents current income tax but excludes deferred tax for the year.
代表本期所得稅，但不包括本年度的遞延稅項。
- (3) All donations in 2018 are in cash.
二零一八年所有捐款均為現金。
- (4) All ESG-related data of years 2016 and 2017 have been re-stated in the key statistics to confirm to the boundary of the Report (with inclusion of Environmental Water and Greentech businesses).
主要數據內的二零一六年和二零一七年環境、社會和管治相關的數據已被重列，以配合本報告的涵蓋範圍（加入了環保水務和綠色環保業務）。
- (5) Waste water treatment includes all operating municipal and industrial waste water treatment projects under Environmental Water.
污水處理包括環保水務所有運營生活及工業污水處理項目。
- (6) Leachate treatment includes all operating waste-to-energy projects and integrated biomass utilisation projects.
滲濾液處理包括所有運營垃圾發電項目及生物質綜合利用項目。
- (7) Due to rounding, the numbers may not add up to total, and there may be a slight discrepancy between the items of the statistics table and the corresponding analysed data as shown in other chapters of the Report.
由於捨入關係，數值加起來可能不等於總計，而表內個別項目的數字經分析計算後可能與本報告其他章節內的相關數據略有出入。
- (8) The calculation of GHG emissions and offset is referenced to CDM methodologies "ACM0022: Alternative Waste Treatment Processes (Version 2.0)", "AM0080: Mitigation of Greenhouse Gases Emissions with Treatment of Wastewater in Aerobic Wastewater Treatment Plants (Version 1.0)", "ACM0018: Electricity Generation from Biomass Residues in Power-only Plants (Version 3.0)", "ACM0006: Electricity and Heat Generation from Biomass (Version 14.0)" and "AMS-I.C.: Thermal Energy Production With or Without Electricity (Version 20.0)".
溫室氣體的排放及抵消的計算參照CDM方法《ACM0022：多選垃圾處理方式（2.0版）》、《AM0080：透過在有氧污水處理廠處理污水減少溫室氣體排放（1.0版）》、《ACM0018：純發電廠利用生物廢棄物發電（3.0版）》、《ACM0006：生物質熱電聯供（14.0版）》及《AMS-I.C.：電力或非電力用戶提供熱能（20.0版）》。
- (9) Excludes Poland municipal solid waste treatment company – Novago.
不包括波蘭都市固廢處理公司—Novago。
- (10) GHG emissions (scope 1) from the incineration of household waste are calculated based on the fraction of fossil carbon in total carbon content of the household waste. The amount of such GHG emissions may substantially fluctuate from time to time due to the varying composition of the received household waste, which is beyond Everbright International's control.
生活垃圾焚燒引致的溫室氣體排放（範疇一）以生活垃圾中化石碳佔總碳的比例為計算基礎。因此，生活垃圾成分的差異可對此溫室氣體排放不時造成大幅波動，這不屬於光大國際的控制範圍之內。
- (11) GHG emissions from air travel are calculated by International Civil Aviation Organisation Carbon Emissions Calculator.
飛機差旅的溫室氣體排放以國際民航組織的碳排放計算器計算得出。
- (12) Includes all projects of Environmental Energy and Greentech sectors that involve combustion and incineration operations.
包括環保能源及綠色環保板塊的所有燃燒和焚燒運營項目。
- (13) Relevant energy conversion factors from "China Energy Statistics 2017" are adopted.
能量轉換計算採用《中國能源統計年鑒2017》的相關能量轉換因子。
- (14) Includes all operating Environmental Energy's waste-to-energy projects and Environmental Water's waste water treatment projects.
包括環保能源所有的運營垃圾發電項目及環保水務所有的運營污水處理項目。
- (15) Excludes Vietnam operations.
不包括越南的營運。
- (16) Data as at 31 December 2018.
數據截至二零一八年十二月三十一日。
- (17) Employees hired from the same province in Mainland China are regarded as local employees, whereas the employees hired from other provinces in Mainland China are regarded as foreign employees.
在中國內地同省受聘的員工被視為本地員工，而在中國內地外省受聘的員工則被視為外地員工。
- (18) Rate of work-related fatalities = (Total number of fatalities as a result of work-related injury/Total working hours) x 200,000
因工死亡率 = (因工傷所造成的死亡個案總計 / 工作總時數) x 200,000
- (19) High-consequence work-related injuries (excluding fatalities) refer to work-related injuries that result in an injury from which the worker cannot, does not, or is not expected to recover fully to pre-injury health status within 6 months.
嚴重工傷（不包括死亡個案）是指導致工作者無法或難於六個月內恢復至受傷前健康狀態的工傷。
- (20) Rate of high-consequence work-related injuries (excluding fatalities) = (Total number of high-consequence work-related injuries (excluding fatalities)/Total working hours) x 200,000
嚴重工傷率（不包括死亡個案） = (嚴重工傷個案總計（不包括死亡個案） / 工作總時數) x 200,000
- (21) Work-related injuries also include work-related fatalities and high-consequence work-related injuries.
工傷亦包含因工死亡及嚴重工傷。
- (22) Rate of work-related injuries = (Total number of work-related injuries/Total working hours) x 200,000
工傷率 = (工傷個案總計 / 工作總時數) x 200,000



VERIFICATION STATEMENT

Scope and Objective

Hong Kong Quality Assurance Agency ("HKQAA") was commissioned by China Everbright International Limited ("Everbright International") to undertake an independent verification for the Sustainability Report 2018 (hereinafter called "the Report"). The Report stated the sustainability performance of Everbright International in the period of 1st January 2018 to 31st December 2018 for its operations.

The aim of this verification is to provide a reasonable assurance on the reliability of the report contents. The Report has been prepared in accordance with the Global Reporting Initiatives ("GRI") Standards: Comprehensive option, the GRI G4 Electric Utilities Sector Disclosure document, as well as Rule 13.91 and Appendix 27 "Environmental, Social and Governance Reporting Guide ("ESG Guide")" of the Main Board Listing Rules of The Stock Exchange of Hong Kong Limited.

Level of Assurance and Methodology

The process applied in this verification was based on the International Standard on Assurance Engagements 3000 (Revised), Assurance Engagements Other than Audits or Reviews of Historical Financial Information issued by the International Auditing and Assurance Standards Board. Our evidence gathering process was designed to obtain a reasonable level of assurance as set out in the standard for the purpose of devising the verification conclusion. The extent of this verification process undertaken covered the criteria set in the GRI Standards: Comprehensive option, the GRI G4 Electric Utilities Sector Disclosure document, and the ESG Guide.

The verification process included verifying the systems and processes implemented for collecting, calculating and reporting the sustainability performance information, reviewing relevant documentation, interviewing responsible personnel with accountability for preparing the reporting contents and verifying selected representative sample of data and information. Raw data and supporting evidence of the selected samples were also thoroughly examined during the verification process.

Independence

Everbright International is responsible for the collection and preparation of the information presented. HKQAA does not involve in the collection and calculation of data or the compilation of the reporting contents where HKQAA's verification activities were entirely independent from Everbright International. There was no relationship between HKQAA and Everbright International that would affect the independence of HKQAA for providing the verification service.

Conclusion

Based on the verification results and in accordance with the verification procedures undertaken, HKQAA has obtained reasonable assurance and is in the opinion that:

- The Report has been prepared in accordance with the GRI Standards: Comprehensive option, the GRI G4 Electric Utilities Sector Disclosure document and the ESG Guide;
- The Report illustrates the sustainability performance of Everbright International, covering all material aspects, in a balanced, comparable, clear and timely manner; and
- The data and information disclosed in the Report are reliable and complete.

Nothing has come to HKQAA's attention that the selected sustainability performance information and data contained in the Report has not been prepared and presented fairly and honestly, in all material aspects, in accordance with the verification criteria.

In conclusion, the Report reflects truthfully of Everbright International's sustainability performance that is commensurate with the sustainability context and materiality of the company.

Signed on behalf of Hong Kong Quality Assurance Agency

Bryan Peng
Assistant Director, Manufacturing and Service Business Division
June 2019



核實聲明

範圍及目的

香港品質保證局已對中國光大國際有限公司（「光大國際」）二零一八年可持續發展報告（「報告」）的全部內容進行獨立驗證。該報告陳述了光大國際於二零一八年一月一日至二零一八年十二月三十一日期間的業務，有關可持續發展方面工作的表現。

此核實聲明的目的是對報告所記載之內容提供合理保證。報告是根據全球報告倡議組織（GRI）的《可持續發展報告標準》的全面選項、GRI G4《電力行業披露》文件，及香港聯合交易所有限公司主板上市規則第 13.91 條及附錄二十七所載的《環境、社會及管治報告指引》的要求編制。

保證程度和核實方法

此次驗證工作是依據 International Auditing and Assurance Standards Board（國際審計與核證準則委員會）發佈的 International Standard on Assurance Engagements 3000 (Revised), Assurance Engagements Other than Audits or Reviews of Historical Financial Information（《國際核證聘用準則 3000（修訂版），歷史財務資料審計或審閱以外的核證聘用》）執行。收集核實證據的幅度是參考國際準則所訂定進行合理保證的原則而制定以確保能擬定核實結論。此外，核實的內容是按照 GRI 的《可持續發展報告標準》的全面選項、GRI G4《電力行業披露》文件，及《環境、社會及管治報告指引》而定。

核實過程包括驗證了光大國際在收集、計算和彙報可持續發展表現資料的系統和程式，檢閱有關檔案資料，與負責編制報告內容的代表面談，選取具有代表性的數據和資料進行查核。相關原始數據和支援證據亦於核實過程中經過詳細審閱。

獨立性

光大國際負責收集和準備所有在報告內陳述的資料。香港品質保證局不涉及收集和計算此報告內的數據或參與編撰此報告。香港品質保證局的核實過程是獨立於光大國際。就提供此核實服務而言，香港品質保證局與光大國際之間並無任何會影響香港品質保證局獨立性的關係。

結論

基於是次的核實結果，香港品質保證局對報告作出合理保證並總結：

- 報告是按照 GRI 的《可持續發展報告標準》的全面選項、GRI G4《電力行業披露》文件，及《環境、社會及管治報告指引》的要求編制；
- 報告平衡、清晰、具比較性和及時地將光大國際的可持續發展表現包括所有重要的可持續發展範疇闡述；
- 報告內的數據和資料可靠完整。

根據驗證準則，香港品質保證局沒有發現在報告內闡述的可持續發展表現資訊和資料並非公平和如實地按照主要範疇作出披露。

總體而言，此報告能如實地反映光大國際的可持續發展表現並與其具體的可持續發展情況和重要性相稱。

香港品質保證局代表簽署

彭文俊
製造及服務科助理總監
二零一九年六月



For the Materiality Disclosures Service, GRI Services reviewed that the GRI content index is clearly presented and the references for Disclosures 102-40 to 102-49 align with appropriate sections in the body of the Report. This service was performed on the English version of the Report.

GRI於本次實質性披露服務確認GRI內容索引清晰，披露項102-40至102-49亦與本報告相應的章節相符。本次服務按本報告的英文版本進行。

Disclosure Number 披露編號	Description 描述	Relevant Chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
GRI 101: Foundation 基礎 2016			
GRI 101 does not include any disclosures 不包含任何揭露			
GRI 102: General Disclosures 一般揭露 2016			
Organizational Profile 組織概況			
102-1	Name of the organization 組織名稱	About this Report 關於本報告	3-4
102-2	Activities, brands, products, and services 活動、品牌、產品與服務	About Everbright International 關於光大國際	12-39
102-3	Location of headquarters 總部位置	About this Report 關於本報告	3-4
102-4	Location of operations 營運活動地點	About Everbright International 關於光大國際	12-39
102-5	Ownership and legal form 所有權與法律形式	About this Report 關於本報告	3-4
102-6	Markets served 提供服務的市場	About Everbright International 關於光大國際	12-39
102-7	Scale of the organization 組織規模	About Everbright International 關於光大國際	12-39
102-8	Information on employees and other workers 員工與其他工作者的資訊	Human Capital 人力資本	107-109
102-9	Supply chain 供應鏈	Responsible Operational Management 負責任的經營管理	64-67
102-10	Significant changes to the organization and its supply chain 組織與其供應鏈的重大改變	Responsible Operational Management 負責任的經營管理	52-69
102-11	Precautionary Principle or approach 預警原則或方針	Responsible Operational Management 負責任的經營管理	52-69
102-12	External initiatives 外部倡議	Community Care 社區關懷	175-177
102-13	Membership of associations 公協會的會員資格	Community Care 社區關懷	175-177

Disclosure Number 披露編號	Description 描述	Relevant Chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
Strategy 策略			
102-14	Statement from senior decision-maker 決策者的聲明	Message from CEO 行政總裁寄語	5-8
102-15	Key impacts, risks, and opportunities 關鍵衝擊、風險及機會	Message from CEO; Responsible Operational Management 行政總裁寄語；負責任的經營管理	5-8, 52-69
Ethics and Integrity 倫理與誠信			
102-16	Values, principles, standards, and norms of behavior 價值、原則、標準及行為規範	Message from CEO; Responsible Operational Management 行政總裁寄語；負責任的經營管理	5-8, 52-69
102-17	Mechanisms for advice and concerns about ethics 關於倫理之建議與顧慮的機制	Message from CEO; Responsible Operational Management 行政總裁寄語；負責任的經營管理	5-8, 52-69
Governance 治理			
102-18	Governance structure 治理結構	Responsible Operational Management 負責任的經營管理	52-60
102-19	Delegating authority 委任權責	Responsible Operational Management 負責任的經營管理	52-60
102-20	Executive-level responsibility for economic, environmental, and social topics 管理階層負責經濟、環境和社會主題	Responsible Operational Management 負責任的經營管理	52-60
102-21	Consulting stakeholders on economic, environmental, and social topics 與利害關係人諮商經濟、環境和社會主題	Responsible Operational Management 負責任的經營管理	52-60
102-22	Composition of the highest governance body and its committees 最高治理單位與其委員會的組成	Responsible Operational Management 負責任的經營管理	52-60
102-23	Chair of the highest governance body 最高治理單位的主席	Responsible Operational Management 負責任的經營管理	52-60
102-24	Nominating and selecting the highest governance body 最高治理單位的提名與遴選	Responsible Operational Management 負責任的經營管理	52-60
102-25	Conflicts of interest 利益衝突	Responsible Operational Management 負責任的經營管理	52-60
102-26	Role of highest governance body in setting purpose, values, and strategy 最高治理單位在設立宗旨、價值觀及策略的角色	Responsible Operational Management 負責任的經營管理	52-60
102-27	Collective knowledge of highest governance body 最高治理單位的群體智識	Responsible Operational Management 負責任的經營管理	52-60
102-28	Evaluating the highest governance body's performance 最高治理單位的績效評估	Responsible Operational Management; Annual Report 2018 負責任的經營管理；二零一八年年報	52-60
102-29	Identifying and managing economic, environmental, and social impacts 鑑別與管理經濟、環境和社會衝擊	Responsible Operational Management; Annual Report 2018 負責任的經營管理；二零一八年年報	52-60
102-30	Effectiveness of risk management processes 風險管理程序的有效性	Responsible Operational Management; Annual Report 2018 負責任的經營管理；二零一八年年報	52-60
102-31	Review of economic, environmental, and social topics 經濟、環境和社會主題的檢視	Responsible Operational Management 負責任的經營管理	52-60
102-32	Highest governance body's role in sustainability reporting 最高治理單位於永續性報導的角色	Responsible Operational Management; Annual Report 2018 負責任的經營管理；二零一八年年報	52-60
102-33	Communicating critical concerns 溝通重要關鍵議題	Human Capital 人力資本	123

Disclosure Number 披露編號	Description 描述	Relevant Chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
102-34	Nature and total number of critical concerns 關鍵議題的性質與總數	Human Capital 人力資本	123
102-35	Remuneration policies 薪酬政策	Responsible Operational Management; Annual Report 2018 負責任的經營管理：二零一八年年報	53-58
102-36	Process for determining remuneration 薪酬決定的流程	Annual Report 2018 (Pg 71) 二零一八年年報 (71頁)	-
102-37	Stakeholders' involvement in remuneration 利害關係人的參與	Responsible Operational Management 負責任的經營管理	53-58
102-38	Annual total compensation ratio 年度總薪酬比率	Responsible Operational Management 負責任的經營管理	57
102-39	Percentage increase in annual total compensation ratio 年度總薪酬比率之增加百分比	Responsible Operational Management 負責任的經營管理	57
Stakeholder Engagement 利害關係人溝通			
102-40	List of stakeholder groups 利害關係人團體	Stakeholder Engagement 持份者參與	41
102-41	Collective bargaining agreements 團體協約	There are no formal collective bargaining agreements in place within the Group. 本集團內部沒有正式的集體談判協約。	-
102-42	Identifying and selecting stakeholders 鑑別與選擇利害關係人	Stakeholder Engagement 持份者參與	41
102-43	Approach to stakeholder engagement 與利害關係人溝通的方針	Stakeholder Engagement 持份者參與	42-44
102-44	Key topics and concerns raised 提出之關鍵主題與關注事項	Stakeholder Engagement 持份者參與	47-48
Reporting Practice 報導實務			
102-45	Entities included in the consolidated financial statements 合併財務報表中所包含的實體	Annual Report 2018 – Notes to Financial Statements (Pg 306-317) 二零一八年年報 – 財務報表附註 (306-317頁)	-
102-46	Defining report content and topic boundaries 界定報告書內容與主題邊界	Stakeholder Engagement 持份者參與	47-48
102-47	List of material topics 重大主題表列	Stakeholder Engagement 持份者參與	47-48
102-48	Restatements of information 資訊重編	There are no restatement of information in this Report. 本報告不涉及重整舊報告資訊。	-
102-49	Changes in reporting 報導改變	Stakeholder Engagement 持份者參與	47-48
102-50	Reporting period 報導期間	About this Report 關於本報告	3-4
102-51	Date of most recent report 上一次報告書的日	About this Report 關於本報告	3-4
102-52	Reporting cycle 報導週期	About this Report 關於本報告	3-4
102-53	Contact point for questions regarding the report 可回答報告書相關問題的聯絡人	About this Report 關於本報告	3-4
102-54	Claims of reporting in accordance with the GRI Standards 依循GRI準則報導的宣告	About this Report 關於本報告	3-4
102-55	GRI content index GRI內容索引	Appendix I – GRI Content Index 附錄I – GRI內容索引	198-205
102-56	External assurance 外部保證/確信	Verification Statement 審核聲明	196-197

Topic-specific Disclosures 特定主題準則

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
GRI 200: Economic 經濟			
Economic Performance 經濟績效			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Message from CEO; Community Care 行政總裁寄語：社區關懷	5-8, 150-177
103-3	Evaluation of the management approach 管理方針的評估	Message from CEO; Community Care 行政總裁寄語：社區關懷	5-8, 150-177
GRI 201: Economic Performance 經濟績效 2016			
201-1	Direct economic value generated and distributed 組織所產生及分配的直接經濟價值	Key Statistics 主要數據	189
201-2	Financial implications and other risks and opportunities due to climate change 氣候變遷所產生的財務影響及其它風險與機會	Responsible Operational Management; Environmental Protection 負責任的經營管理：環境保護	63, 70-105
201-3	Defined benefit plan obligations and other retirement plans 定義福利計劃義務与其它退休計畫	Human Capital 人力資本	121-122
201-4	Financial assistance received from government 自政府取得之財務補助	Government grants of HK\$134,123,000 were granted during the Reporting Period to subsidise certain Environmental Energy, Environmental Water and Greentech projects of the Group in mainland China and Poland. 於報告期內，本集團獲發放政府補助金港幣134,123,000元，以補貼本集團若干中國及波蘭的環保能源、環保水務及綠色環保項目。	-
Market Presence 市場地位			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Message from CEO; About Everbright International 行政總裁寄語：關於光大國際	5-8, 12-39
103-3	Evaluation of the management approach 管理方針的評估	Message from CEO; About Everbright International 行政總裁寄語：關於光大國際	5-8, 12-39
GRI 202: Market Presence 市場地位 2016			
202-1	Ratios of standard entry level wage by gender compared to local minimum wage 不同性別的基層人員標準薪資與當地最低薪資的比率	The compensation of all of our employees is higher than the minimum wage rules. 我們所有員工的工資均高於當地最低工資要求。	-
202-2	Proportion of senior management hired from the local community 雇用當地居民為高階管理階層的比例	Human Capital 人力資本	109
Research and Development 科研及開發			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Message from CEO; About Everbright International 行政總裁寄語：關於光大國際	5-8, 12-39
103-3	Evaluation of the management approach 管理方針的評估	Message from CEO; About Everbright International 行政總裁寄語：關於光大國際	5-8, 12-39

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
GRI 300: Environmental 環境			
Materials 物料			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Environmental Protection 環境保護	70-95
103-3	Evaluation of the management approach 管理方針的評估	Environmental Protection 環境保護	70-95
GRI 301: Materials 物料 2016			
301-1	Materials used by weight or volume 使用物料的總重量或體積	Environmental Protection 環境保護	93-95
301-2	Recycled input materials used 使用的可再生物料	Environmental Protection 環境保護	93-95
301-3	Reclaimed products and their packaging materials 回收產品及其包材	Packaging materials and product recall are not applicable for Everbright International's business operations. 光大國際的業務不涉及包裝材料及產品回收。	-
Energy 能源			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Environmental Protection 環境保護	70-95
103-3	Evaluation of the management approach 管理方針的評估	Environmental Protection 環境保護	70-95
GRI 302: Energy 能源 2016			
302-1	Energy consumption within the organization 組織內部的能源消耗量	Environmental Protection 環境保護	91-92
302-2	Energy consumption outside the organization 組織外部的能源消耗量	Environmental Protection 環境保護	91-92
302-3	Energy intensity 能源密集度	Key Statistics 主要數據	190
302-4	Reduction of energy consumption 減少能源消耗	Environmental Protection 環境保護	70-95
302-5	Reductions in energy requirements of products and services 降低產品和服務的能源需求	Environmental Protection 環境保護	70-95
Effluents and Waste 廢污水和廢棄物			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	41-48
103-2	The management approach and its components 管理方針及其要素	Environmental Protection 環境保護	70-105
103-3	Evaluation of the management approach 管理方針的評估	Environmental Protection 環境保護	70-105

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
GRI 306: Effluents and Waste 廢污水和廢棄物 2016			
306-1	Water discharge by quality and destination 依水質及排放目的地所劃分的排放量	Environmental Protection 環境保護	95-98
306-2	Waste by type and disposal method 按類別及處置方法劃分的廢棄物	Environmental Protection 環境保護	99-105
306-3	Significant spills 嚴重洩漏	Environmental Protection 環境保護	95-98
306-4	Transport of hazardous waste 廢棄物運輸	Environmental Protection 環境保護	102
306-5	Water bodies affected by water discharges and/or runoff 受放流水及其它(地表)逕流排放而影響的水體	Environmental Protection 環境保護	95-98
Environmental Compliance 有關環境保護的法規遵循			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Environmental Protection 環境保護	70-105
103-3	Evaluation of the management approach 管理方針的評估	Environmental Protection 環境保護	70-105
GRI 307: Environmental Compliance 有關環境保護的法規遵循 2016			
307-1	Non-compliance with environmental laws and regulations 違反環保法規	Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況	210-212
GRI 400: Social 社會			
Employment 勞雇關係			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Human Capital 人力資本	106-133
103-3	Evaluation of the management approach 管理方針的評估	Human Capital 人力資本	106-133
GRI 401: Employment 勞雇關係 2016			
401-1	New employee hires and employee turnover 新進員工和離職員工	Human Capital 人力資本	106-133
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees 提供給全職員工(不包含臨時或兼職員工)的福利	Human Capital 人力資本	106-133
401-3	Parental leave 育嬰假	Human Capital 人力資本	106-133
Electric Utilities Sector Disclosures 電力行業披露			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Human Capital 人力資本	106-133
103-3	Evaluation of the management approach 管理方針的評估	Human Capital 人力資本	106-133

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
Electric Utilities Sector Disclosures: Employment 電力行業披露：勞僱關係			
EU15	Percentage of employees eligible to retire in the next 5 and 10 years broken by job category and by region 按地區和性質劃分未來5年及10年符合資格退休的僱員比例	Human Capital 人力資本	114
EU17	Days worked by contractor and subcontractor employees involved in construction, operation & maintenance activities 參與建設、運營及維護的承包商及分包商僱員的工作天數	Safety in Action 安全進行時	148
Occupational Health and Safety 職業安全衛生			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Safety in Action 安全進行時	134-149
103-3	Evaluation of the management approach 管理方針的評估	Safety in Action 安全進行時	134-149
GRI 403: Occupational Health and Safety 職業安全衛生 2018			
403-1	Occupational health and safety management system 職業安全衛生管理系統	Safety in Action 安全進行時	134-149
403-2	Hazard identification, risk assessment, and incident investigation 危害辨識、風險評估、及事故調查	Safety in Action 安全進行時	134-149
403-3	Occupational health services 職業健康服務	Safety in Action 安全進行時	134-149
403-4	Worker participation, consultation, and communication on occupational health and safety 有關職業安全衛生之工作者參與、諮商與溝通	Safety in Action 安全進行時	134-149
403-5	Worker training on occupational health and safety 有關職業安全衛生之工作者訓練	Safety in Action 安全進行時	134-149
403-6	Promotion of worker health 工作者健康促進	Safety in Action 安全進行時	134-149
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships 預防和減輕與業務關係直接相關聯之職業安全衛生的衝擊	Safety in Action 安全進行時	134-149
403-8	Workers covered by an occupational health and safety management system 職業安全衛生管理系統所涵蓋之工作者	Safety in Action 安全進行時	134-149
403-9	Work-related injuries 職業傷害	Safety in Action 安全進行時	134-149
403-10	Work-related ill health 職業病	Safety in Action 安全進行時	134-149
Local Communities 當地社區			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Community Care 社區關懷	150-177
103-3	Evaluation of the management approach 管理方針的評估	Community Care 社區關懷	150-177
GRI 413: Local Communities 當地社區 2016			
413-1	Operations with local community engagement, impact assessments, and development programs 經當地社區溝通、衝擊評估和發展計畫的營運活動	Community Care 社區關懷	150-177
413-2	Operations with significant actual and potential negative impacts on local communities 對當地社區具有顯著實際或潛在負面衝擊的營運活動	Community Care 社區關懷	150-177

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數
Electric Utilities Sector Disclosures 電力行業披露			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Community Care 社區關懷	150-177
103-3	Evaluation of the management approach 管理方針的評估	Community Care 社區關懷	150-177
Electric Utilities Sector Disclosures: Local Communities 電力行業披露：當地社區			
EU22	Number of people physically or economically displaced and compensation, broken down by type of project 按項目種類劃分，失去住所或生計的人士的數目及賠償	Community Care 社區關懷	150-177
Socioeconomic Compliance 社會經濟法規遵循			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Community Care 社區關懷	150-177
103-3	Evaluation of the management approach 管理方針的評估	Community Care 社區關懷	150-177
GRI 419: Socioeconomic Compliance 社會經濟法規遵循 2016			
419-1	Non-compliance with laws and regulations in the social and economic area 違反社會與經濟領域之法律和規定	Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況	210-212
Disaster/Emergency Planning and Response 災難／緊急應變計劃			
GRI 103: Management Approach 管理方針 2016			
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement 持份者參與	47-48
103-2	The management approach and its components 管理方針及其要素	Community Care 社區關懷	150-177
103-3	Evaluation of the management approach 管理方針的評估	Community Care 社區關懷	150-177
Electric Utilities Sector Disclosures 電力行業披露			
EU1	Installed capacity, broken down by primary energy source and by regulatory regime 按一次能源細分的裝機容量	About Everbright International 關於光大國際	12-39
EU2	Net energy output broken down by primary energy source and by regulatory regime 按一次能源細分的淨能源輸出	About Everbright International 關於光大國際	12-39
EU3	Number of residential, industrial, institutional and commercial customer accounts 機構及商業客戶賬戶數目	As of 31 December 2018, the Group had a total of 85 government customers who purchased electricity from us. 截至二零一八年十二月三十一日，本集團共有85個向我們購買電力的政府客戶。	-
EU4	Length of above and underground transmission and distribution lines by regulatory regime 地上及地下輸電及配電線路長度	About Everbright International 關於光大國際	12-39
EU5	Allocation CO ₂ e emissions allowances or equivalent, broken down by carbon trading framework 按碳交易框架細分的二氧化碳當量排放量配額	We did not participate in carbon emissions trading scheme during the Reporting Period. 我們於報告期內沒有參與任何碳排放交易計畫。	-

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標	Description 描述	Relevant Chapter(s) of the Report and/or Other Explanation(s) 本報告有關章節及/或其他說明
A. Environment 環境		
Aspect A1: Emissions 層面 A1：排放物		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste. 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無害廢棄物的產生等的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Environmental Protection 環境保護 Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況
KPI A1.1	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	Environmental Protection 環境保護 Key Statistics 主要數據
KPI A1.2	Greenhouse gas emissions in total (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 溫室氣體總排放量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	Environmental Protection 環境保護 Key Statistics 主要數據
KPI A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生有害廢棄物總量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	Environmental Protection 環境保護 Key Statistics 主要數據
KPI A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生無害廢棄物總量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	Environmental Protection 環境保護 Key Statistics 主要數據
KPI A1.5	Description of measures to mitigate emissions and results achieved. 描述減低排放量的措施及所得成果。	Environmental Protection 環境保護 Business Developments and Operational Strategies 業務發展及運營策略
KPI A1.6	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved. 描述處理有害及無害廢棄物的方法、減低產生量的措施及所得成果。	Environmental Protection 環境保護 Business Developments and Operational Strategies 業務發展及運營策略
		Hazardous waste is mainly comprised of fly ash generated from the incineration of household waste. The amount of fly ash generated is highly dependent on the quantity and composition of household waste received, which are beyond Everbright International's control. 有害廢棄物主要包含焚燒生活垃圾所產生的飛灰。飛灰的數量主要取決於接收生活垃圾的數量及成分，而這些因素均不在光大國際的控制範圍之內。

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標	Description 描述	Relevant Chapter(s) of the Report and/or Other Explanation(s) 本報告有關章節及/或其他說明
Aspect A2: Use of Resources 層面A2：資源使用		
General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源（包括能源、水及其他原材料）的政策。	Environmental Protection 環境保護
KPI A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total (kWh in '000s) and intensity (e.g. per unit of production volume, per facility). 按類型劃分的直接及/或間接能源（如電、氣或油）總耗量（以千個千瓦時計算）及密度（如以每產量單位、每項設施計算）。	Environmental Protection 環境保護 Key Statistics 主要數據
KPI A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility). 總耗水量及密度（如以每產量單位、每項設施計算）。	Environmental Protection 環境保護 Key Statistics 主要數據
KPI A2.3	Description of energy use efficiency in initiatives and results achieved. 描述能源使用效益計劃及所得成果。	Environmental Protection 環境保護 Business Developments and Operational Strategies 業務發展及運營策略
KPI A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency initiatives and results achieved. 描述求取適用水源上可有任何問題，以及提升用水效益計劃及所得成果。	Environmental Protection 環境保護 Business Developments and Operational Strategies 業務發展及運營策略
KPI A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced. 製成品所用包裝材料的總量（以噸計算）及（如適用）每生產單位佔量。	Regarding water sourcing, all of the Group's projects under construction and operation have obtained the respective environmental impact assessment approvals and water-drawing permits. There are no issues related to sourcing water that is fit for purpose. 在取水方面，本集團的所有在建及運營項目均已獲得相關的環評批覆及取水證，我們在獲得適用水源上沒有發現任何問題。 Our services do not involve the use of packaging materials. 我們的服務並不涉及包裝材料的使用。
Aspect A3: The Environment and Natural Resources 層面A3：環境及天然資源		
General Disclosure 一般披露	Policies on minimising the issuer's significant impact on the environment and natural resources. 減低發行人對環境及天然資源造成重大影響的政策。	Environmental Protection 環境保護
KPI A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them. 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動。	Environmental Protection 環境保護
B. Social 社會		
Employment and Labour Practices 僱傭及勞工常規		
Topic B1: Employment 層面B1：僱傭		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare. 有關薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Human Capital 人力資本 Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況
KPI B1.1	Total work force by gender, employment type, age group and geographical region. 按性別、僱傭類型、年齡組別及地區劃分的僱員總數。	Human Capital 人力資本 Key Statistics 主要數據
KPI B1.2	Employee turnover rate by gender, age group and geographical region. 按性別、年齡組別及地區劃分的僱員流失比率。	Human Capital 人力資本 Key Statistics 主要數據

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標	Description 描述	Relevant Chapter(s) of the Report and/or Other Explanation(s) 本報告有關章節及/或其他說明
Aspect B2: Health and Safety 層面B2：健康與安全		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards. 有關提供安全工作環境及保障僱員避免職業性危害的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Safety in Action 安全進行時 Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況
KPI B2.1	Number and rate of work-related fatalities. 因工作關係而死亡的人數及比率。	Safety in Action 安全進行時 Key Statistics 主要數據
KPI B2.2	Lost days due to work injury. 因工傷損失工作日數。	Safety in Action 安全進行時 Key Statistics 主要數據
KPI B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored. 描述所採納的職業健康與安全措施，以及相關執行及監察方法。	Safety in Action 安全進行時
Aspect B3: Development and Training 層面B3：發展及培訓		
General Disclosure 一般披露	Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities. 有關提升僱員履行工作職責的知識及技能的政策。描述培訓活動。	Human Capital 人力資本
KPI B3.1	The percentage of employees trained by gender and employee category (e.g. senior management, middle management). 按性別及僱員類別（如高級管理層、中級管理層等）劃分的受訓僱員百分比。	Human Capital 人力資本
KPI B3.2	The average training hours completed per employee by gender and employee category. 按性別及僱員類別劃分，每名僱員完成受訓的平均時數。	Human Capital 人力資本 Key Statistics 主要數據
Aspect B4: Labour Standards 層面B4：勞工準則		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labour. 有關防止童工或強制勞工的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Human Capital 人力資本 Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況
KPI B4.1	Description of measures to review employment practices to avoid child and forced labour. 描述檢討招聘慣例的措施以避免童工及強制勞工。	The Group regularly reviews its employment practice to ensure compliance with applicable laws and regulations in preventing child and forced labour. 本集團定期檢討其招聘措施以確保遵守適用於有關避免童工及強制勞工的法律及規例。
KPI B4.2	Description of steps taken to eliminate such practices when discovered. 描述在發現違規情況時消除有關情況所採取的步驟。	The Group has zero tolerance towards such practice. Violations are subject to internal disciplinary actions or handled by relevant authorities. 本集團並不容忍此違規情況。如有發現，將根據內部處分或交給有關部門處理。
Operating Practices 營運慣例		
Aspect B5: Supply Chain Management 層面B5：供應鏈管理		
General Disclosure 一般披露	Policies on managing environmental and social risks of the supply chain. 管理供應鏈的環境及社會風險政策。	Responsible Operational Management 負責任的經營管理
KPI B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目。	Responsible Operational Management 負責任的經營管理
KPI B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, how they are implemented and monitored. 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目，以及有關慣例的執行及監察方法。	Responsible Operational Management 負責任的經營管理

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標	Description 描述	Relevant Chapter(s) of the Report and/or Other Explanation(s) 本報告有關章節及/或其他說明
Aspect B6: Product Responsibility 層面B6：產品責任		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress. 有關所提供產品和服務的健康與安全、廣告、標籤及私隱事宜以及補救方法的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Responsible Operational Management 負責任的經營管理 Environmental Protection 環境保護 Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International. 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況。 The Group has not identified material concerns in its operations regarding advertising and labelling matters, thus dedicated policies are not in place. 本集團並未發現營運中有關廣告及標籤事宜的重大問題，故此，我們並無相關專門政策。 There are no laws and regulations that have a significant impact on the Group regarding advertising and labelling matters relating to products and services provided by the Group. 本集團並無有關廣告及標籤事宜的相關法律及規例對其構成重大影響。
KPI B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons. 已售或已運送產品總數中因安全與健康理由而須回收的百分比。	We did not have products recalled for safety and health reasons in 2018. 我們於二零一八年沒有因安全與健康理由而須回收產品。
KPI B6.2	Number of products and service related complaints received and how they are dealt with. 接獲關於產品及服務的投訴數目以及應對方法。	We did not receive complaints relating to products and services in 2018. 我們於二零一八年沒有接獲關於產品及服務的投訴。
KPI B6.3	Description of practices relating to observing and protecting intellectual property rights. 描述與維護及保障知識產權有關的慣例。	Responsible Operational Management 負責任的經營管理
KPI B6.4	Description of quality assurance process and recall procedures. 描述質量檢定過程及產品回收程序。	Environmental Protection 環境保護 Due to the specific nature of the Group's integrated environmental solutions business, recall procedures are not applicable to our products and services provided. 本集團業務性質為環境綜合治理服務，當中並沒有適用的產品及服務回收程序。
KPI B6.5	Description of consumer data protection and privacy policies, how they are implemented and monitored. 描述消費者資料保障及私隱政策，以及相關執行及監察方法。	Responsible Operational Management 負責任的經營管理
Aspect B7: Anti-corruption 層面B7：反貪污		
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering. 有關防止賄賂、勒索、欺詐及洗黑錢的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Human Capital 人力資本 Appendix III – Compliance with Relevant Laws and Regulations That Have a Significant Impact on Everbright International. 附錄III – 對光大國際有重大影響的相關法律及規例的遵守情況
KPI B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the Reporting Period and the outcomes of the cases. 於匯報期內對發行人或其僱員提出並已審結的貪污訴訟案件的數目及訴訟結果。	In 2018, there was no confirmed case of non-compliance in relation to corrupt practices that would have a significant impact on the Group. 二零一八年並沒有任何與反貪污相關並對本集團有重大影響的已確認違規事件。
KPI B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored. 描述防範措施及舉報程序，以及相關執行及監察方法。	Responsible Operational Management 負責任的經營管理
Community 社區		
Aspect B8: Community Investment 層面B8：社區投資		
General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take in to consideration the communities' interests. 有關以社區參與來了解營運所在社區需要和確保其業務活動會考慮社區利益的政策。	Community Care 社區關懷
KPI B8.1	Focus are as of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport). 專注貢獻範疇（如教育、環境事宜、勞工需求、健康、文化、體育）。	Community Care 社區關懷
KPI B8.2	Resources contributed (e.g. money or time) to the focus area. 在專注範疇所動用資源（如金錢或時間）。	Community Care 社區關懷 Key Statistics 主要數據

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對光大國際有重大影響的相關法律及規例的遵守情況

Aspect A1: Emissions
 層面A1：排放物

In order to protect and improve the environment, prevent pollution and other public hazards, safeguard public health, promote the development of ecological conservation, and promote sustainable economic and social development, China has enacted a large number of laws to protect environmental resources. Key laws and regulations applicable to the Group's business include the Environmental Protection Law of the People's Republic of China, Law of the People's Republic of China on Environmental Impact Assessment, Water Pollution Prevention and Control Law of the People's Republic of China, Atmospheric Pollution Prevention and Control Law of the People's Republic of China, and Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste. These laws and regulations provide clear requirements on air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste. We understand that it is important to meet these statutory obligations as violation of any of applicable environmental laws and regulations may result in penalties, suspension of operation, and/or legal action against the Group by regulatory authorities.

為保護和改善環境，防治污染和其他公害，保障公眾健康，推進生態文明建設，促進經濟和社會的可持續發展，中國制定實施了大量環境資源保護的法律。適用於本集團的主要法律及規例包括《中華人民共和國環境保護法》、《中華人民共和國環境影響評價法》、《中華人民共和國水污染防治法》、《中華人民共和國大氣污染防治法》及《中華人民共和國固體廢物污染環境防治法》。該等法律及規例對廢氣及溫室氣體排放、向水及土地的排污以及有害及無害廢棄物的產生等方面提供了明確要求。我們深明履行該等法律及法規的重要性，因為違反任何適用的環境法律和法規均可能會導致監管機構對本集團作出罰款、勒令停運及／或採取法律行動。

In 2018, there was no confirmed case of non-compliance in relation to environmental protection that would have a significant impact on the Group. Please refer to chapter "Environmental Protection" of the Report on how Everbright International ensures compliance with applicable environmental laws and regulations.

二零一八年並沒有任何與環境保護相關並對本集團有重大影響的已確認違規事件。關於光大國際如何確保遵守與環境相關的法律法規，請參閱本報告「環境保護」章節。

Aspect B1: Employment
 層面B1：僱傭

The Labour Law of the People's Republic of China, Labour Contract Law of the People's Republic of China, and Hong Kong's Employment Ordinance stipulate the legal obligations and responsibility of employers to provide employment protection and benefits covering compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare. The Social Insurance Law of the People's Republic of China is formulated for the purpose of regulating sickness insurance, occupational injury insurance, maternity insurance, medical care insurance, retirement insurance, and death insurance, and also clarifies the legal liabilities of the employer. The Regulation on the Management of Housing Provident Fund is formulated for the purpose of maintaining the lawful rights and interests of housing provident fund owners. These laws and regulations are crucial to the Group, as employees are the Group's most valuable asset.

《中華人民共和國勞動法》、《中華人民共和國勞動合同法》及香港《僱傭條例》提供了全面的僱傭保障和福利，涵蓋對薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利方面的要求，明確了僱主的法定義務和責任。《中華人民共和國社會保險法》規定了疾病、工傷、生育、醫療、退休及死亡保險，並釐清了僱主的相關法律責任。《住房公積金管理條例》則維護了住房公積金所有者的合法權益。這些法律法規非常重要，因員工是本集團最寶貴的財富。

In 2018, there was no confirmed case of non-compliance in relation to the Group's employment practices that would have a significant impact on the Group. Please refer to chapter "Human Capital" of the Report on how Everbright International ensures compliance with applicable employment laws and regulations.

二零一八年並沒有任何與僱傭相關並對本集團有重大影響的已確認違規事件。關於光大國際如何確保遵守與僱傭相關的法律法規，請參閱本報告「人力資本」章節。

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B2: Health and Safety
層面B2：健康與安全

The Labour Law of the People's Republic of China, Work Safety Law of the People's Republic of China, and Criminal Law of the People's Republic of China commit to the protection of labour safety and production safety, and require manufacturing organisations and employers to provide a safe working environment and protect employees from occupational hazards. The Social Insurance Law of the People's Republic of China is formulated for the purpose of regulating sickness insurance, occupational injury insurance, maternity insurance, medical care insurance, retirement insurance, and death insurance, and also clarifies the legal liabilities of the employer. Compliance with these laws and regulations is paramount as workplace safety is of critical importance to each and every employee of the Group. As a socially responsible enterprise, the Group complies with relevant health and safety laws and regulations to provide employees with a safe workplace and suitable insurance.

《中華人民共和國勞動法》、《中國人民共和國安全生產法》及《中華人民共和國刑法》旨在維護勞動安全衛生及生產安全，要求生產經營單位及僱主提供安全工作環境及保障僱員避免職業性危害。《中華人民共和國社會保險法》則規定了疾病、工傷、生育、醫療、退休及死亡保險，並釐清了僱主的相關法律責任。遵守這些法律法規是本集團的首要任務，因為工作場所的安全對本集團每一位員工都十分重要。為員工提供安全工作環境及合適保險是本集團作為良心企業的實踐，本集團會嚴守相關健康與安全法律法規。

In 2018, there was no confirmed case of non-compliance in relation to health and safety that would have a significant impact on the Group. Please refer to chapter "Safety in Action" of the Report on how Everbright International ensures compliance with applicable laws and regulations relating to health and safety.

二零一八年並沒有任何與健康與安全相關並對本集團有重大影響的已確認違規事件。關於光大國際如何確保遵守與健康與安全相關的法律法規，請參閱本報告「安全進行時」章節。

B4: Labour Standards
層面B4：勞工準則

The Labour Law of the People's Republic of China and Hong Kong's Employment Ordinance set out clear rules for preventing child labour, and forced labour, and elaborate on the legal liabilities of employers who violate the relevant laws and regulations. Everbright International highly values human rights and commits to strictly comply with relevant labour standards.

《中華人民共和國勞動法》及香港《僱傭條例》提供了全面的僱傭保障和福利，對防止童工或強制勞動列有明確規定，並詳細地闡述違反相關法律及法規的僱主的法律責任。光大國際高度重視人權，並承諾嚴格遵守相關勞工準則。

In 2018, there was no confirmed case of non-compliance in relation to labour standards that would have a significant impact on the Group. Please refer to chapter "Human Capital" of the Report on how Everbright International ensures compliance with applicable laws and regulations relating to labour standards.

二零一八年並沒有任何與勞工準則相關並對本集團有重大影響的已確認違規事件。關於光大國際如何確保遵守與勞工準則相關的法律法規，請參閱本報告「人力資本」章節。

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B6: Product Responsibility

層面B6：產品責任

Relevant laws and regulations of the Group mainly include the Patent Law of the People's Republic of China, Criminal Law of the People's Republic of China, Environmental Protection Law of the People's Republic of China, Atmospheric Pollution Prevention and Control Law of the People's Republic of China, Water Pollution Prevention and Control Law of the People's Republic of China, Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste and Law of the People's Republic of China on Administrative Penalty. These laws and regulations provide clear requirements on health and safety, and privacy matters and remedial methods relating to products and services provided. It is the Group's core value to abide by these rules in providing safe and reliable services.

與本集團相關的法律法規主要包括《中華人民共和國專利法》、《中華人民共和國刑法》、《中華人民共和國環境保護法》、《中華人民共和國大氣污染防治法》、《中華人民共和國水污染防治法》、《中華人民共和國固體廢物污染環境防治法》及《中華人民共和國行政處罰法》。該等法律及規例對產品和服務的健康與安全及私隱事宜以及補救方法提供了明確的要求。提供安全可靠的產品是本集團的核心價值。

In 2018, there was no confirmed case of non-compliance in relation to product responsibility that would have a significant impact on the Group. Please refer to chapters "Responsible Operational Management" and "Environmental Protection" of the Report on how Everbright International ensures compliance with applicable laws and regulations relating to product responsibility.

二零一八年並沒有任何與產品責任相關並對本集團有重大影響的已確認違規事件。關於光大國際如何確保遵守與產品責任相關的法律法規，請參閱本報告「負責任的經營管理」及「環境保護」章節。

B7: Anti-Corruption

層面B7：反貪污

The Anti-Unfair Competition Law of the People's Republic of China, Criminal Law of the People's Republic of China, Anti-Money Laundering Law of the People's Republic of China, and Hong Kong's Prevention of Bribery Ordinance set out clear rules on preventing bribery, extortion, fraud and money laundering. These laws and regulations aim to maintain social integrity and fairness, prevent unfair competition, and protect the legal rights of service providers and customers. The Group firmly believes that misconduct such as corruption has significant negative impact to the business development. Therefore, the Group strictly complies with relevant anti-corruption laws and regulations to maintain a good reputation and enhance its competitiveness.

《中華人民共和國反不正當競爭法》、《中國人民共和國刑法》、《中華人民共和國反洗錢法》及香港《防止賄賂條例》對防止賄賂、勒索、欺詐及洗黑錢行為提供了明確的規定，旨在維護社會廉潔公平，制止不正當競爭行為，保護服務提供者和消費者的合法權益。本集團深信貪污等不當行為對業務發展百害而無一利，因此嚴格遵循相關的反貪污法律法規，致力維持本集團良好的聲譽及提升競爭力。

In 2018, there was no confirmed case of non-compliance in relation to corrupt practices that would have a significant impact on the Group. Please refer to chapter "Human Capital" of the Report on how Everbright International ensures compliance with applicable laws and regulations relating to corrupt practices.

二零一八年並沒有任何與反貪污相關並對本集團有重大影響的已確認違規事件。關於光大國際如何確保遵守與反貪污相關的法律法規，請參閱本報告「人力資本」章節。

2018 Sustainability Report 可持續發展報告

CHINA EVERBRIGHT INTERNATIONAL LIMITED

中國光大國際有限公司

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