



2016

SUSTAINABILITY  
REPORT

可持續發展報告



### Design Concept

The cover of this report uses a conveyor belt to present the continuity of China Everbright International Limited ("CEIL"), the concept of creating green ecology through an enterprise, and to provide a continuous stream of green power. CEIL upholds the social responsibility, safeguarding the public, providing harmless treatment, reduction and reuse of municipal solid waste and waste water, turning them into useful resources, and fostering a sustainable future.

### 設計概念

本報告封面以輸送帶表現中國光大國際有限公司（「光大國際」）之持續性、經企業轉化成綠化生態的概念，為社會輸送源源不絕的綠色力量。光大國際勇於承擔社會責任，為大眾把關，無害化、減量化，資源化處理生活垃圾及污水，變廢為寶，為社會帶來可持續發展的未來。

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唐雙寧

唐雙寧

Mr. Tang Shuangning

唐雙寧先生

Chairman, China Everbright Group Ltd.

(Former Chairman of China Everbright International Limited)

中國光大集團股份公司董事長

(原中國光大國際有限公司主席)



A pleasant ecological environment is essential to social well-being. Striking a balance between ecological preservation and economic development undoubtedly requires the collective responsibilities shared between nations and societies. CEIL will persist in integrating corporate dreams with sustainable development focuses, fulfilling the responsibilities as an enterprise and carrying out the duties as a citizen. Along with the pursuit of long term and stable development, we endeavor to benefit mankind through green technologies, creating a future with clean water and blue skies.

良好生態環境是最普惠的民生福祉。如何平衡好生態環境保護與經濟發展無疑需要世界各國、社會各界攜手向前，共同承擔。光大國際將繼續堅持企業夢想與社會可持續發展焦點融合，盡企業之責，擔公民之任，在追求自身長期穩健發展的同時，努力用綠色技術造福人類，共創碧水藍天的未來。

Cai Yunge

蔡允革

Chairman 主席

China Everbright International Limited

中國光大國際有限公司

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## About this Report 關於本報告

China Everbright International Limited (“CEIL” or the “Company”), Headquartered in Hong Kong, is the first one-stop integrated environmental solution provider in China. As a leader in China’s environmental protection industry, the Company leverages talent, science and technology to develop all of its six business segments, namely Envirotech, Environmental Energy, Environmental Water, Greentech, Equipment Manufacturing and International Business. It also manages a large number of industry-leading, world-class environmental protection projects, including waste-to-energy, biomass integrated utilization, solar energy, wind power, hazardous waste treatment, water environment management, river-basin ecological restoration, with also a prominent role in the areas of environmental protection engineering, technological research and development, planning and development of environmental protection industrial parks and sponge city construction, etc.

We believe delivering reports with clarity and transparency is the key to corporate sustainability management, therefore the Company’s significant performances on environmental, social and governance areas are consecutively disclosed to stakeholders annually. The 2016 Sustainability Report (the “Report”) presents the Company’s major sustainability statistics and achievements during the period from 1 January 2016 to 31 December 2016 (the “Reporting Period”). The Report has been prepared by adopting the most updated Global Reporting Initiative’s (“GRI”) Sustainability Reporting Standards and the Electric Utilities Sector Disclosures document ‘in accordance’ with the Comprehensive option, as well as the Environmental, Social and Governance (“ESG”) Reporting Guide published by The Stock Exchange of Hong Kong Limited (“SEHK”).

The information disclosed in the Report is based on the materiality assessment, stakeholder engagement and other relevant GRI guidelines, with the disclosure on the sustainability performance of all operating environmental protection projects in China under the operational control of the Company during the Reporting Period. The relevant entities of the Report can be found in our Annual Report 2016 – Notes to the Financial Statements. Unless otherwise specified, employees of our contractors and subcontractors are not calculated as part of the Company’s employees. Relevant guidelines or provisions of international or local context are used as the basis for data collection and analysis of the Report, including the use of the Clean Development Mechanism (“CDM”) for the calculation of the projects’ greenhouse gas emissions.

The Company has commissioned the Hong Kong Quality Assurance Agency as a third-party verification institution to conduct an independent audit and assurance for the Report, and the relevant Verification Statement is contained in the end of the Report. The Board of Directors of CEIL (“the Board”) had reviewed and approved the contents and scope of the Report, to ensure that major materiality topics of the Company have been covered.

The Company welcomes all stakeholders and the public to download the Report (English & Chinese versions) CEIL’s website <http://www.ebchinaintl.com> and to provide valuable comments and suggestions in relation to this Report and our sustainability performance. Contact Email: [info1@ebchinaintl.com](mailto:info1@ebchinaintl.com).

中國光大國際有限公司（「光大國際」或「本公司」）總部位於香港，是中國首個全方位、一站式的環保產業服務商。作為中國環保行業的領先企業，本公司以人才、科技為引領，全面推動旗下環境科技、環保能源、環保水務、綠色環保、裝備製造及國際業務六大業務的發展，培育了一大批行業領先、具有國際水準的環保項目，包括垃圾發電、生物質綜合利用、光伏發電、風力發電、危廢處理、水環境治理、流域治理等，並於環保工程建設、技術研發、環保產業園規劃及建設、海綿城市建設等範疇處於行業領先地位。

我們相信清晰透明的報告是企業可持續發展管理的關鍵，因此每年持續向持份者披露本公司在環境、社會和管治方面的重要表現。二零一六年可持續發展報告（「本報告」）涵蓋了本公司於二零一六年一月一日至二零一六年十二月三十一日（「報告期間」）的主要可持續發展數據和成績。本報告的編寫乃根據全球報告倡議組織（「GRI」）最新的《可持續發展報告標準》及其《電力行業披露文件》的全面「依循」選項，以及香港聯合交易所有限公司（「聯交所」）發佈的《環境、社會及管治報告指引》。

本報告所披露之內容是基於實質性評估、持份者訪談和其他相關的GRI指引釐訂，涵蓋了本公司擁有運營控制權及於報告期間運營的所有位於中國的環保項目的可持續發展績效。本報告中的相關實體的資料可參閱《二零一六年年報》的綜合財務表附註。除非另有註明，承包商及分包商的僱員並不算作本公司僱員的一部份。本報告的數據收集及分析乃根據相關之國際或當地指引及準則進行，包括使用清潔發展機制（「CDM」）之計算方法統計項目的溫室氣體排放。

本公司已委託香港品質保證局作為第三方審核機構為本報告的內容進行獨立審計及認證，相關核實聲明載於報告末章。本報告亦經過光大國際董事會（「董事會」）之審閱及批准，以確保涵蓋本公司主要的實質性議題。

本公司歡迎各位持份者和公眾於光大國際網頁<http://www.ebchinaintl.com>下載本報告（備有中英文版本），及就本報告和我們的可持續發展表現提供寶貴意見及建議。聯絡電郵：[info1@ebchinaintl.com](mailto:info1@ebchinaintl.com)。

## 1.

## Message from CEO 行政總裁致辭

2016 marks the beginning of CEIL's new round of development. Benefiting from the country's strong emphasis on the ecological environment, the Company has entered another phase of rapid expansion with record-high operation performance, becoming the first solid waste treatment company which obtained over RMB10 billion of revenue in the environmental protection industry of China, securing 44 new projects with a total investment of over RMB14 billion in 2016. In alignment with the country's "One Belt One Road" development strategy, CEIL has brought the expansion from domestic to overseas into full play in China, with business extending to Vietnam and Poland. In 2016, the Company's management teams at all levels and staff members were committed to bold visions which helped them overcome every challenge dutifully. With this, the Company achieved notable achievements across all aspects of its development and concluded the year with exceptional results, which creates positive momentum for it's next round of growth.

二零一六年是光大國際進入新一輪發展的開局之年。得益於國家對生態環境的重視，本公司再次步入高速發展的軌道，業績屢創歷史新高，率先成為中國環保產業年收益突破人民幣百億的固廢處理公司。本公司於二零一六年取得44個新項目，投資總額超過人民幣140億元。配合國家「一帶一路」的發展戰略，光大國際全力推動從國內向國外的延伸，業務版圖延伸至越南及波蘭。回顧二零一六年，本公司各級管理層及廣大員工登高望遠，以堅實的步伐砥礪前行，各方面的工作都取得顯著成效，為下一階段的發展創造了良好勢頭。



An enterprise is not only the **Creator of Wealth**  
but also the **Safeguard of Environmental**  
and  
**Social Responsibility**



企業不僅是 **物質財富的創造者**  
更應成為 **環境與責任的承擔者**

## Message from CEO

### 行政總裁致辭

The Company strives to driving development with innovation aligning with the country's latest policy direction, cooperating with the promulgated national regulations on environmental protection such as the "13th Five-Year Plan for Eco-Environmental Protection", the "Opinions on Further Enhancement of Municipal Household Waste Incineration Work", the "13th Five-Year Plan for Renewable Energy Development" and the "Water Pollution Prevention and Control Law (Draft Amendment)", proactively seizing development opportunities. Along with the pursuit of development, the Company keeps tight control of various governance risks, and as the safeguard of the environmental and social responsibility, we firmly lead the Chinese environmental protection enterprises towards standardization and internationalization.

The Environmental, Safety, Health and Social Responsibility ("ESHS") Management System and Risk Management System which were officially implemented from 2016 are the Company's sustainability highlights of the year. The two systems integrate safety, environmental and social responsibility with our daily operation, which improved and supplemented the existing management and operation evaluations. The management systems not only provide a wholesome platform for CEIL's sustainable development, but also facilitate the Company to preserve its status as an outstanding enterprise in China and even around the world, which is of great significance to CEIL's execution of its global strategies.

## Environmental Protection

The persistence in promoting environmental protection performances of projects is the key to maintain our long-term development. The Company has been proactively adhering to the strictest emission standards, for example, flue gas emissions of our waste-to-energy projects comply with standards that are superior to the European Union Industrial Emission Directive (2010/75/EU) ("Euro 2010"). In May 2016, the Company achieved ahead of schedule daily disclosure of the emission standards of its operating waste-to-energy projects, including the daily average levels of online monitored flue gas emissions, as well as the daily test results of leachate treatment water quality and ignition loss rate of incineration residue of the previous day, and disclosed hourly disclosure of emission standards starting from 1 January 2017, promoting the industry's best practice through real actions, and acting as a role model on information disclosure among industry peers.

本公司致力以創新推動發展，緊貼國家最新政策方向，配合《「十三五」生態環境保護規劃》、《關於進一步加強城市生活垃圾焚燒處理工作的意見》、《可再生能源發展「十三五」規劃》、《水污染防治法（修訂草案）》等重點環保政策，積極抓緊發展機遇。在謀求發展的同時，本公司對各項管治風險的控制亦沒有鬆懈，並作為環境與責任的承擔者，堅定帶領中國環保企業向標準化、國際化邁進。

二零一六年起正式實施的環境、安全、健康及社會責任（「ESHS」）管理體系和風險管理體系是本公司的年度可持續發展工作重點。兩大管理體系雙管齊下，將安全、環境、社會責任與日常經營管理有機結合，完善了現行的管理和經營考核，不但為光大國際的可持續發展提供一個健康的平台，更助本公司持續保持中國乃至國際優秀企業的翹楚地位，對光大國際實施全球戰略具有重大意義。

## 致力環保

堅持推動項目環保效能是我們保持長遠發展的關鍵。本公司積極倡導最嚴格的排放標準，如旗下垃圾發電項目的煙氣排放優於歐盟《工業排放指令》（2010/75/EU）（「歐盟2010」）內的相關標準。本公司於二零一六年五月提前實現披露運營垃圾發電項目前一日的煙氣在線監測指標日均值、滲濾液出水指標日檢測值及爐渣熱灼減率日檢測值，並於二零一七年一月一日起實行按小時均值公佈排放標準，用實際行動推動行業的最佳規範，在行業信息公開方面起到良好的示範作用。

## Message from CEO

### 行政總裁致辭

During the Reporting Period, CEIL processed 9.007 million tonnes of household waste and 98,000 tonnes of hazardous waste through harmless treatment, reuse and reduction measures. Our environmental protection projects provided a total of 3,654 million kWh of green electricity, which is equivalent to the electricity consumption of 3.045 million households in one year, saving 1.462 million tonnes of standard coal and reducing 3.864 million tonnes of CO<sub>2</sub> emissions. We also treated 1.15 billion m<sup>3</sup> of waste water and 1.724 million m<sup>3</sup> of leachate, avoiding 293,000 tonnes of Chemical Oxygen Demand ("COD") discharge.

## People-Oriented

We are committed to embracing the "People-oriented" human resources strategy by recruiting elites from both domestic and overseas to further expand our talent pool. Through the establishment of a fair and flexible development platform together with the provision of professional courses as well as execution trainings, the overall capability of our employees has been significantly improved. Additionally, the Company adjusted its management structure, optimized its remuneration systems, and provided training for the management team on integrity and morality to further enhance staff conduct, with an aim to strengthen the competitiveness of the Company through the improvement of professionalism and integrity.

## Technological Innovation

Technological innovation has become the driving force of enterprise development, as well as the support for future business opportunities and operational efficiency. In 2016, the first self-developed 750-tonne/day grate furnace and flue gas purification system of the Company were put into operation at the Wujiang Waste-to-energy Project, filling a void in China's high capacity grate furnace manufacturing segment. The development of our Greentech business was fostered by business innovation, where the combined heat and power projects as well as diversified hazardous waste treatment projects have been developed. Furthermore, the Company has also taken the initiative to launch the urban-rural integration projects in China's environmental protection industry, creating a new way to process municipal household waste and agricultural and forestry waste, in order to achieve higher economic efficiency through improved resource allocation.

報告期間，光大國際無害化、資源化、減量化處理了900.7萬噸生活垃圾和9.8萬噸危險廢物。我們的環保項目合共提供了36.54億千瓦時的綠色電力，相當於為304.5萬戶家庭提供一年的電力，亦相當於節約標準煤146.2萬噸，並減少二氧化碳排放386.4萬噸。我們的污水及滲濾液處理量分別達到11.5億立方米和172.4萬立方米，化學需氧量（「COD」）減排共29.3萬噸。

## 以人為本

我們致力圍繞「以人為本」的人才策略，廣納本地和海外精英，繼續擴張人才儲備庫。透過建設公平和靈活的發展平台，舉辦專業課程和執行力培訓，員工的整體素質得到顯著提升。本公司更調整管理架構，優化薪酬體系，及為管理層提供廉潔與道德培訓，進一步提升員工的操守，以專業和廉潔強化本公司發展的核心競爭力。

## 科技創新

科技創新已成為推動企業發展的關鍵，是未來商機和營運效益的支持點。二零一六年，本公司首台自主研发的750噸／日爐排爐和煙氣淨化系統於吳江垃圾發電項目穩定運行，填補了國產大容量爐排的空白；我們的綠色環保業務堅持以業務創新引領發展，進一步發展熱電聯供及危廢多元化處置項目；本公司更率先在中國環保行業推出城鄉垃圾統籌處理項目，為城市生活垃圾與農林廢棄物的統籌處理探索出一條新的路子，通過更好的資源匹配，實現更高的經濟效益。



## Caring for the Community

We believe an outstanding enterprise must be committed to conducting business in a socially responsible manner. Therefore, we have endeavored to promote community activities on topics such as education, environmental friendliness, energy conservation and ecological protection. The Company established the Everbright International Environmental Protection Charitable Foundation Company Limited in Hong Kong, which is specifically responsible for management of the “Everbright International Environmental Protection Charitable Foundation”, and focuses on issues of environmental protection and urban sustainability. With the goal of integrating environmental awareness into the daily life of the general public, we supported the “Earth Hour” environmental protection initiative organized by World Wide Fund for Nature Hong Kong for the third consecutive year.

The Company’s efforts on sustainability are well recognized and we have been selected as the only Mainland China and Hong Kong listed company to be included in the Dow Jones Sustainability World Index in 2016 for our outstanding sustainability performances and overall score, and we were also awarded the Silver Class distinction in RobecoSAM’s 2017 Sustainability Yearbook. Looking forward, CEIL will continue to uphold the principle of “First Class Quality, High Standard and Outstanding Efficiency”, seizing the development opportunities created by the country’s emphasis on green development, ecological management and ecological conservation, in order to build more first-class projects to contribute to the improvement of the ecological environment. We will also endeavor to level up our corporate governance and corporate social responsibility, incorporate a long-term mindset into our strategic business planning, and make steady progress to become an excellent international company, while proactively taking the responsibility as a pioneer among China’s environmental protection enterprises.

**CHEN Xiaoping**  
Chief Executive Officer

26 May 2017

## 關懷社區

我們相信優秀的企業必須具備對社會責任的承擔，因此一直致力於促進教育及環境友好、節能、生態保護等方面的社區工作。本公司於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會」，專注環保及城市的可持續發展議題。我們亦連續第三年全力支持世界自然基金會香港分會「地球一小時」大型環保活動，將我們對環境保護的期盼融入市民的日常生活。

本公司在可持續發展方面的努力有目共睹，更憑藉優異的可持續發展績效及綜合得分，上榜道瓊斯可持續發展全球指數（「Dow Jones Sustainability World Index」），成為該指數唯一一家於二零一六年上榜的中國大陸及香港上市公司，並獲得RobecoSAM《2017年可持續發展年鑒》頒授銀獎殊榮（「RobecoSAM Silver Class」）。展望將來，光大國際將會繼續恪守「高品質、高標準、高效率」的原則，緊握國家對綠色發展、生態環境治理和生態文明建設的高度重視而帶來的發展機遇，打造更多一流項目，為改善生態環境貢獻一份力量。我們亦會致力於提高企業管治及企業社會責任水平，以長遠發展的視角進行業務戰略規劃，穩紮穩打地向國際優秀企業邁進，積極承擔中國環保企業排頭兵的責任。

**陳小平**  
行政總裁

二零一七年五月二十六日

## 2.

## Highlights in 2016 二零一六年度亮點

## Business Development and Operations

- ☞ Secured 44 new projects, including 14 waste-to-energy projects, 12 waste water treatment projects, 9 biomass integrated utilization projects and 8 hazardous waste treatment projects
- ☞ Completed construction of 23 new projects, including 5 waste-to-energy projects, 1 food waste treatment project, 7 waste water treatment projects, 1 reusable water project, 4 hazardous waste treatment projects and 5 biomass integrated utilization projects
- ☞ Actively expanded overseas business and achieved substantive progress, including the completion of the acquisition of Poland's solid waste treatment company, Novago sp. z o.o. ("Novago"), and winning the bidding and signing the investment agreement on the Can Tho Waste-to-energy Project in Vietnam, tapping into the European and Southeast Asian solid waste treatment markets
- ☞ Expanded business into multiple new areas, including harmless treatment of animal carcass, sponge city construction and river-basin ecological restoration.
- ☞ Completed the production and commissioning of 18 sets of grate furnaces, 15 sets of flue gas purification systems and 12 sets of leachate treatment systems
- ☞ Signed Strategic Cooperation Agreement to Provide Green Finance Support for Ecological Environment Construction with China Development Bank Corporation
- ☞ Implemented the ESHS Management System and Risk Management System

## 業務拓展與營運

- ☞ 取得44個新項目，包括14個垃圾發電項目、12個污水處理項目、9個生物質綜合利用項目及8個危廢處置項目
- ☞ 建成23個新項目，包括5個垃圾發電項目、1個餐厨垃圾處理項目、7個污水處理項目、1個中水回用項目、4個危廢處置項目及5個生物質綜合利用項目
- ☞ 積極拓展海外業務並取得實質性進展，包括完成收購波蘭固廢處理公司Novago sp. z o.o.（「Novago」），中標並簽署越南芹苴垃圾發電項目，分別進軍歐洲及東南亞固廢處理市場
- ☞ 業務拓展至多個新領域，包括動物無害化處理、海綿城市建設、流域治理等
- ☞ 完成生產供貨18套焚燒爐排爐、15套煙氣淨化成套設備及12套滲濾液成套設備
- ☞ 與國家開發銀行簽署《綠色金融支持生態環境建設戰略合作協議》
- ☞ 實施環境、安全、健康及社會責任管理體系和風險管理體系



## Highlights in 2016

### 二零一六年度亮點



- Selected as the constituent stock of the Hang Seng Corporate Sustainability Index for the third consecutive year
- 連續第三年獲納入恒生可持續發展企業指數成份股
- Added into the Dow Jones Sustainability World Index and Dow Jones Sustainability Emerging Markets Index
- 上榜道瓊斯可持續發展全球指數及道瓊斯可持續發展新興市場指數
- China Everbright Water Limited (“Everbright Water”) was included as a constituent stock of the MSCI China Small Cap Index
- 中國光大水務有限公司(「光大水務」)獲納入MSCI中國小型指數成份股

## Research and Development

## 科研開發

- Granted with a total of 37 patents (10 of which are invention patents and 27 are utility invention patents)
- 獲得發明專利授權10項及實用型專利授權27項，合共授權專利37項
- Received subsidies of RMB230 million granted by the Chinese government
- 獲國家各類資金補助人民幣2.30億元
- Acquired Jiangsu Design & Research Institute of Energy Conservation Engineering
- 收購江蘇節能工程設計院



- Purchased the Nanjing Science and Technology Building
- 購置南京科技大樓
- Established Everbright Envirotech (China) Limited
- 成立光大環境科技(中國)有限公司
- Entered a comprehensive cooperation with Zhejiang University, applied for the first National Engineering Key Laboratory in the waste-to-energy industry
- 與浙江大學全面合作，成功申請垃圾發電領域首個國家重點工程實驗室
- Set up the Environmental Energy Research Center
- 成立環境能源研究中心

## Highlights in 2016 二零一六年度亮點

### Environmental Protection

- Achieved the target of disclosing on a hourly basis the emission standards of the hourly average level of online monitored gas emissions
- Produced 3,654 GWh of green electricity from our projects in the areas of waste-to-energy, biomass power generation, methane-to-energy, solar energy, and wind power, supporting the annual electricity consumption for more than 3.045 million households, saved the equivalence of 1.462 million tonnes of standard coal and reduced 3.864 million tonnes of carbon dioxide emissions
- Treated approximately 1.15 billion m<sup>3</sup> of waste water and 1.724 million m<sup>3</sup> of leachate by our Environmental Water projects, achieving COD reduction of about 293,000 tonnes



### Employee Development

- Fully implemented regional management, further enhanced the backup talent pool management
- Launched a new compensation and benefits system
- Developed human resources through internal training as well as local, overseas and on-campus recruitments
- Organized training courses and execution trainings to improve the overall quality of staff, where the average annual training time exceeded 59 hours per employee
- Co-organized training courses with Tsinghua University, cultivating the skills of the management team and key personnel

### 環境保護

- 實現按小時均值披露運營垃圾發電項目監測排放指標
- 垃圾發電、生物質發電、沼氣發電、光伏發電及風力發電項目共產生綠色電力約36.54億千瓦時，可供約304.5萬戶家庭一年使用，相當於節約標煤約146.2萬噸，減少二氧化碳排放約386.4萬噸
- 環保水務項目分別處理污水及滲濾液約11.5億立方米及172.4萬立方米，實現COD減排約29.3萬噸



### 員工發展

- 全面實施區域中心管理，繼續完善後備人才管理
- 推出新的薪酬福利體系
- 繼續通過自身培養、本地招聘、海內外招聘、校園招聘廣泛招攬人才
- 舉辦培訓課程及執行力培訓，提升整體素質，每名員工年均培訓時數超過59小時
- 與清華大學合辦培訓課程，培養管理層和骨幹的技能



## Contribution to the Society

- 🌿 Supported the “Earth Hour” environmental protection initiative organized by World Wide Fund for Nature Hong Kong for the third consecutive year
- 🌿 Everbright Environmental Protection Charitable Foundation has accumulatively donated a total of approximately RMB3 million to 688 beneficiaries
- 🌿 Provided various new volunteering platforms to encourage employees to properly allocate their times and skills for more community activities
- 🌿 Our environmental protection projects served as local environmental education bases and industrial tourist attractions, receiving over 69,000 local and overseas visitors for visiting, inspection and study purposes
- 🌿 Participated in various activities promoting environmental technology to the general public, such as the “National Science Popularization Day”, “China Ecological Civilization Forum”, and “World Environment Day” to increase the awareness of the public on environmental protection
- 🌿 Supported the Heifer International Hong Kong branch’s “Read to Feed” fund raising program (2016-2017)
- 🌿 Awarded the 2015/16 “Caring Company” Logo
- 🌿 Awarded the Best Social Responsibility Brand Award in the China Charity Festival 2015

## 社會貢獻

- 🌿 連續第三年支持世界自然基金會香港分會「地球一小時」大型環保活動
- 🌿 持續向困難環衛工人發放光大環保愛心基金，已累計產生688位受益人，共計發放慰問金及救助金約人民幣300萬元
- 🌿 為僱員提供多個全新義工平台，鼓勵他們善用時間和技能多參與社區活動
- 🌿 環保項目作為當地的環保教育基地及工業旅遊景點，全年共接待前往參觀、考察、學習，各項目接待交流的國內外人士超過6.9萬人
- 🌿 參與「全國科普日」、「中國生態文明論壇」及「世界環境日」等各項環保科技活動，向公眾宣傳先進的環保科技並提高環保意識
- 🌿 支持國際小母牛香港分會舉辦的「開卷助人」閱讀籌款計劃（2016-2017年度）
- 🌿 獲頒2015/16年度「商界展關懷」標誌
- 🌿 榮獲2015年（第五屆）中國公益節最佳責任品牌獎

# 3.

## Our Sustainable Business 我們的環保業務

### Committed to creating a **More Sustainable Environment**

致力環保產業 創造美好環境



## Our Sustainable Business

### 我們的環保業務

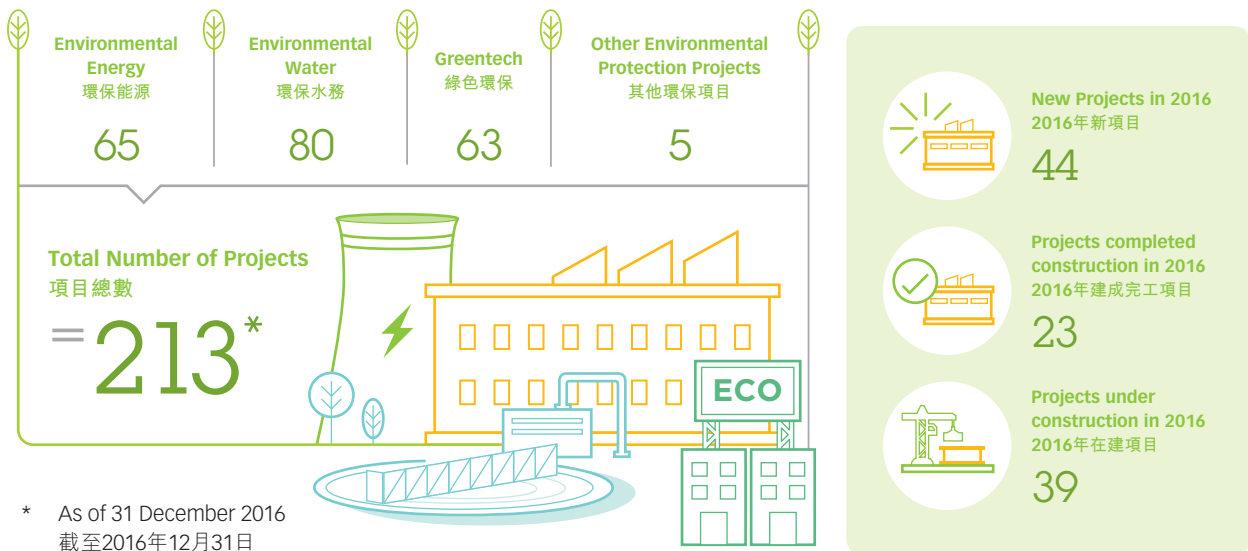


CEIL, listed on the Mainboard of the SEHK is a flagship company in the industrial investment sector of China Everbright Group Ltd.. Through explorations and adjustments at different development phases, the Company has adopted the holding group management model and has divided its once unified businesses into six major segments based on the business characteristics, namely Envirotech, Environmental Energy, Environmental Water, Greentech, Equipment Manufacturing and International Business. Persisting through over a decade of hard work, the Company has secured a total of 213 environmental protection projects with operations in over 80 counties and cities across 17 provinces and municipalities in China, as well as in overseas markets including Germany, Poland and Vietnam. In 2016, the Company's consolidated revenue reached HKD13.97 billion and we employed 3,478 employees.<sup>1</sup>

光大國際於聯交所主板上市，為中國光大集團股份公司投資實業之旗艦公司。經過不同發展階段的探索調整，本公司現採取控股集團管理模式，將原集中統一管理模式根據業務特徵分為環境科技、環保能源、環保水務、綠色環保、裝備製造及國際業務六大業務板塊。經過十餘年的階梯式發展，本公司已落實共213個環保項目，業務版圖遍佈中國17省及直轄市、80多個縣市，以及海外市場包括德國、波蘭及越南。二零一六年度，本公司綜合營業額達港幣139.7億元，員工總數為3,478名<sup>1</sup>。

<sup>1</sup> Referring to the employees of operating projects under our operational control during the Reporting Period.  
指我們擁有營運控制權並於報告期間運營中的項目的員工。

## Our Sustainable Business 我們的環保業務



## Our Shared Values

The strategic goal of CEIL's "13th Five-Year Plan" is to become a national and global leading player in the environmental protection industry. In 2016, besides expanding environmental protection business in China, the Company also established the International Business Department, which actively explored overseas markets including Europe, Southeast Asia, Africa, South Asia and other places through project tenders, mergers and acquisitions, technological imports and equipment exports, and successfully acquired Novago, a leading solid waste management company in Poland, and decisively secured the first environmental protection project in Vietnam with the outstanding overall capabilities. It is also the first waste-to-energy project in the Mekong Delta of the country.

While achieving steady growth in economic efficiency and material values, the Company also puts strong emphasis on taking social responsibilities to become a well-respected and leading enterprise which is able to create shared values for stakeholders. Our business model has been strongly supported by the governments and investors, and the Company has obtained RMB230 million subsidies from governments at various levels in China in 2016.

## 我們的共享價值

光大國際「十三五」戰略規劃目標致力於發展成中國乃至世界環保領域的翹楚。除了繼續拓展國內環保市場，本公司於二零一六年成立國際業務部，通過項目招標、收併購、技術引進、設備外銷等多種渠道在歐洲、東南亞、非洲和南亞等地積極拓展市場，並成功收購了波蘭領先的固廢處理公司Novago，及以優秀的綜合能力在越南取得首個環保項目，該項目也是越南九龍江平原首個垃圾發電項目。

本公司在實現經濟效益與物質財富高速增長的同時，亦非常注重社會責任的承擔，以成為受社會尊敬、引領時代的傑出企業為目標，為各方持份者創造共享的價值。我們的商業模式向來深受政府和投資者支持，二零一六年本公司共獲得國家各級政府各項資金補助合共約人民幣2.30億元。



### Direct economic value generated and distributed to the concerned stakeholders by CEIL in 2016\*

二零一六年光大國際所產生及分配予相應持份者的直接經濟價值\*

	Economic value 經濟價值	Beneficiary 獲益持份者	Amount (thousand HKD) 金額(千元港幣)
Direct economic value generated 產生的直接經濟價值	Income 收益	Investors, Clients 投資者、顧客	13,971,204
Economic value distributed 分配的經濟價值	Operating cost 運營成本	Business Partners, Suppliers 商業夥伴、供應商	8,661,638
	Employee expense 員工開支	Employees 員工	893,032
	Finance cost 融資成本	Lenders 借款人	639,584
	Dividends 股息	Investors 投資者	918,957
	Income tax 所得稅	Government 政府	1,062,150
	Donations 捐款	Local Communities 當地社區	4,014
Economic value retained 留存的經濟價值	Retained for CEIL's sustainable operation and development: 留存作光大國際的持續運營和發展：	Investors, Clients 投資者、顧客	1,791,829

\* Data come from Annual Report 2016, including all employees of CEIL.

\* 數據來自《二零一六年報》，包括光大國際所有員工。

As for our significant indirect economic impacts, many of our projects are located in non-developed areas, and our operations can promote the economic development in these areas by providing job opportunities and improving infrastructure services. We also reduce the pollution control cost and stimulate investment opportunity of the areas where we operate by transforming waste into green energy.

關於我們的重大間接經濟影響，我們許多項目位於非發達地區，而且我們的運營可通過提供就業機會及改善基礎設施服務推動該等地區的經濟發展。此外，我們透過將廢料轉化為綠色能源降低我們經營地區的污染控制成本及刺激投資機會。

## Our Sustainable Business

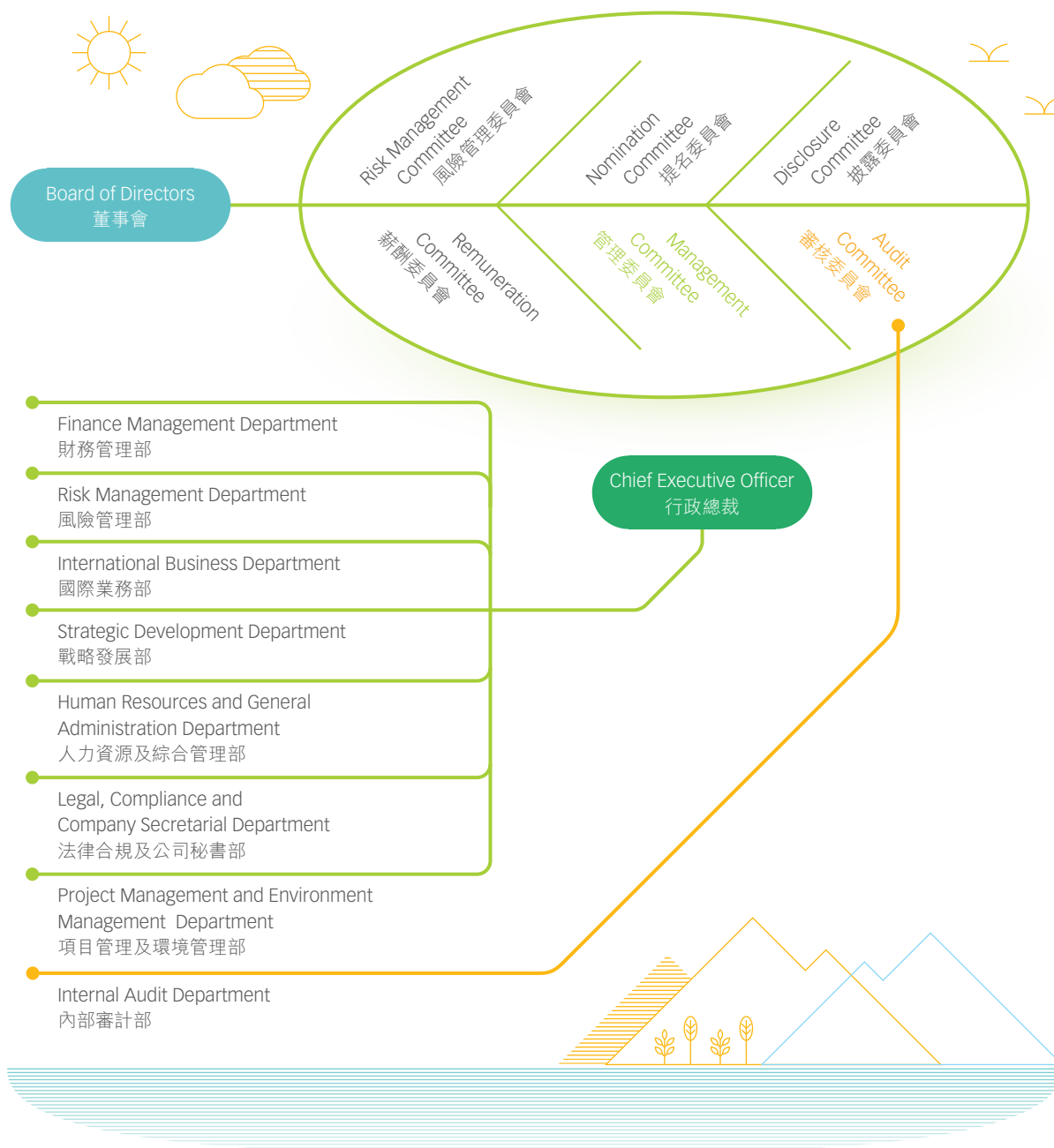
### 我們的環保業務

## Our Corporate Governance

The Company upholds a high standard of corporate governance in order to protect the interests of shareholders and other stakeholders, and to enhance our corporate values, transparency and accountability. To maintain a high standard of corporate governance, we uphold our management principle of “People-oriented, Pragmatism, Creativity and Systematic Management”, which was enhanced by our continuing effort to develop and comply with relevant rules and regulations, strengthen internal controls, improve risk prevention and management, and timely disclosure of important information to stakeholders.

## 我們的企業管治

本公司奉行高水平的企業管治，從而保障股東及其他持份者的利益，並提升公司價值、透明度及問責性。我們致力於奉行「以人為本、求真務實、開拓創新、規範管理」的管理理念，維持高水平的企業管治。這有賴於我們持續制定並遵從相關規章制度、強化內部監控、完善風險防範與管理、以及適時披露對持份者重要的資料等的舉措。



In December 2016, we announced the cessation of Mr. Tang Shuangning as the Chairman of the Board of the Company and his re-designation as a Non-executive Director of the Company to pursue more commitments to the Company's holding shareholder on the strategic development of China Everbright Group Ltd. and China Everbright Holdings Company Limited. On the other hand, Mr. Cai Yunge was appointed as the Board's Chairman with effect from December 2016. The Board now comprises five executive directors, a non-executive director and four independent non-executive directors. An appropriate proportion of non-executive directors provides the Company with independent advice and perspectives on issues relating to business operations, development strategies and business performance, which effectively safeguards the best interest of our shareholders. The roles and responsibilities of our Chairman and Chief Executive Officer are clearly established and the two posts 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 business management of the Company, reducing the chance of conflicts of interests.

As an integral part of good corporate governance, six committees have been established within the Board:

#### 1. Audit Committee

The Audit Committee comprises four independent non-executive Directors. Its primary responsibilities include the review of the accounting principles and practices adopted by the Company, as well as discussing and reviewing the internal control and financial reporting matters.

#### 2. Remuneration Committee

The Remuneration Committee comprises an executive Director and four independent non-executive Directors. It is responsible for making recommendations to the Board on the Company's policy and structure for all directors and senior management remuneration and on the establishment of a formal and transparent procedure for developing remuneration policy, as well as determining, with delegated responsibilities, the remuneration packages of the individual executive Directors and senior management.

二零一六年十二月，唐雙寧先生卸任本公司董事會主席一職，並獲委任為本公司非執行董事，彼將專注於本公司控股股東中國光大集團股份公司以及中國光大集團有限公司的策略發展事項。另外，蔡允革先生於二零一六年十二月獲委任為董事會主席。董事會現由五位執行董事、一位非執行董事及四位獨立非執行董事組成。非執行董事的比例合宜，為本公司提出與業務運營、發展策略和業績相關的獨立意見及觀點，有效保障股東的利益。董事會主席和行政總裁的職責均有明確界定，並由不同人士擔任，以確保有效區分公司的董事會運作及日常商業管理的職責，減低利益衝突的機會。

本公司的良好管治有賴於董事會轄下之六個委員會：

#### 1. 審核委員會

審核委員會由四位獨立非執行董事組成，其主要職責包括審閱本公司所採納之會計準則及常規，討論並審查內部監控及財務申報等事宜。

#### 2. 薪酬委員會

薪酬委員會由一位執行董事及四位獨立非執行董事組成，其職權範圍包括就全體公司董事及高級管理人員的薪酬設立正規而具透明度的薪酬制訂程序，向董事會提出政策及架構上的建議，並且獲董事會授權釐訂個別執行董事及高級管理人員的薪酬待遇。

## Our Sustainable Business

### 我們的環保業務

Index 指標	Ratio in 2016 二零一六年的比例
Annual total compensation for the organization's highest-paid individual to the median annual total compensation for all employees 該機構最高薪人士的年度薪酬總額與全體僱員年度薪酬總額的中位數的比例	133.9
Percentage increase in annual total compensation for the highest paid individual to the median percentage increase in annual total compensation for all employees 最高薪人士年度薪酬總額的增加百分比與全體僱員年度薪酬總額增加百分比的中位數的比例	1.1

Details of the remuneration determination process and the Directors' remuneration information can be found in the "Corporate Governance Report" section of our Annual Report 2016.

有關薪酬釐定的詳情及各董事的薪酬資料，可參閱本公司《二零一六年年報》中的「企業管治報告」章節。

### 3. Nomination Committee

The Nomination Committee comprises an executive Director and four independent non-executive Directors. Its primary responsibilities include making recommendations to the Board on appointment of Directors regarding the qualification and competency of the candidates, so as to ensure that all nominations are fair and transparent.

The Company has established a diversity policy for board members, in which diversified and complementary skills are highly considered in the selection and forming of the Board and also to eliminate any discrimination. Details of the nomination and selection process of the Board and the relevant conditions can be found in the "Corporate Governance Report" section of our Annual Report 2016.

### 4. Risk Management Committee

The Risk Management Committee, which was established on 1 January 2016, currently comprises two executive Directors, two independent non-executive Directors and a deputy Chief Financial Officer. It is responsible for providing oversight of the Company's risk management procedures, and to review the effectiveness of management's processes for identifying, assessing, mitigating and monitoring enterprise-wide risks.

### 3. 提名委員會

提名委員會由一位執行董事及四位獨立非執行董事組成，其主要職責包括向董事會就委任董事提出建議，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。

本公司訂立董事會成員多元化政策，在甄選和組建董事會時將多元化和技能互補列為重要考慮因素，並杜絕任何歧視。有關董事會的提名和甄選過程及相關條件，可參閱本公司的《二零一六年年報》中的「企業管治報告」章節。

### 4. 風險管理委員會

風險管理委員會於二零一六年一月一日成立，現時由兩位執行董事、兩位獨立非執行董事及副財務總監組成。其主要職責為監管公司的風險管理程序和負責審核管理層就全面風險識別、評估、緩解及監控程序的有效性。

### 5. Disclosure Committee

The Disclosure Committee comprises three executive directors and the Company Secretary, and was delegated by the Board for the execution of day-to-day continuous disclosure obligations so as to ensure the Company's compliance with disclosure obligations.

### 6. Management Committee

The Management Committee comprises four executive directors and three senior management members and is responsible for day-to-day operation management, including the formulation and implementation of the Company's annual work targets and medium-term development plans. It is also the collective decision-making body for the major day-to-day operations, management and other personnel matters.

### Governance of Sustainable Development

With nearly a year of preparation, the ESHS Management System and Risk Management System were officially launched on 1 July 2016. Integrating safety, environment, social responsibility and risk management with the daily operation management, the systems escort the Company's holding group management structure and ensure the core values of different business sectors in terms of social responsibility as well as risk management remain consistent. The sustainable development of the two management systems are led by our Chief Executive Officer and implemented by the Project Management Department and Risk Management Department of CEIL, while the Risk Management Committee is responsible for the supervision and audit of the Company's risk management.

In order to ensure that sustainable development is practiced at every project company, a target responsibility system is implemented in each unit, and the ESHS organizational system in charge of the general managers of all projects are established to expand the duties of safety committees in construction projects and to enhance the role of the environmental management department during project constructions and operations. All department managers are required to submit risk assessment reports to the Headquarters on a quarterly basis, and all employees need to report to management for any potential risks found.

### 5. 披露委員會

披露委員會由三位執行董事及公司秘書組成。董事會已授權披露委員會負責執行日常持續披露的責任，以確保本公司遵守披露責任。

### 6. 管理委員會

管理委員會由四位執行董事及三位管理層組成，負責日常業務運營管理，包括制定和推行本公司的年度工作目標及中期發展規劃，並對主要的日常運作、管理和人事等重大事項進行集體決策。

### 可持續發展管治

經過歷時近一年的準備工作，我們於二零一六年七月一日正式啟動運行全新的ESHS管理和風險管理兩大體系。該體系將安全、環境、社會責任及風險管控與日常經營管理有機結合，為本公司控股集團化的管理架構保駕護航，確保本公司各業務板塊在社會責任和風險管理方面的核心價值始終如一。兩大管理體系的可持續發展工作由行政總裁牽頭，光大國際項目管理部、風險管理部兩大職能部門負責組織實施。其中本公司風險管理的監管和審核由風險管理委員會負責。

為確保可持續發展的工作落實到項目公司層面，各單位實施目標責任制，建立以總經理負責的ESHS組織體系，加大建設項目上安全委員會的職責，在項目建設、運營中強化環境管理部門的職能。所有部門經理並須每季度向總部提交風險評估報告，員工亦被要求將其發現的潛在風險上報至管理層。

## Our Sustainable Business

### 我們的環保業務

In addition to the support from professional functional departments, the Company also invites external consultants to provide regular trainings and up-to-date information on certain hot topics (e.g. regulatory updates, economic, environmental protection, social affairs and risk management, etc.) to the Board members, with the ultimate goal to continuously strengthen the skills of Directors in leading the works on sustainable development. The Company's sustainability issues are reviewed by the Board on a regular basis and the annual Sustainability Report is reviewed and approved in the Board Meetings annually.

The Company strives to ensure a high standard of corporate governance. Through a set of rules and regulations, strengthened internal controls, risk prevention and management, with comprehensive and timely public disclosure of corporate information, we have maintained the transparency and accountability mechanisms to create shared values with our stakeholders. The employees are also required to comply with the "Code of Conduct" and "Compliance Manual" of the Company, which comprise issues such as anti-corruption, anti-bribery, management of conflict of interest, anti-discrimination, data confidentiality and safety. The integrity of colleagues is linked to the performance evaluations to ensure the alignment of the Company's operations with relevant business ethics. We have also established a whistle blowing and complaint hotline for all employees and the public to raise and report any concerns of potentially unethical and dishonest issues. The confidentiality of all reporting personnel is strictly protected to ensure that no retaliation is caused due to the reporting. In 2016, no cases on corruption, fraud, political contribution, monopoly and other misconduct were recorded.

Additional information about our corporate governance and the Board, including details of the board members, performance evaluation mechanisms, elections, remunerations, etc., can be found in CEIL's Annual Report 2016, or access to the online information through <http://www.ebchinaintl.com>.

除了得到專業的職能部門之輔助，為持續提升董事們在領導可持續發展工作方面的能力，本公司定期邀請外部顧問為董事提供若干熱門課題（如最新法則、經濟、環保、社會事務及風險管理等）的培訓及最新資料。董事會更會定期檢視本公司的可持續發展議題，並於會議上審批每年的可持續發展報告。

本公司致力維持高水平企業管治，透過制定規章制度、強化內部監控、完善風險防範與管理，以公開全面的態度適時披露企業資料，維持良好的透明度及問責機制，為持份者創造共享價值。僱員需要遵守本公司的《操守準則》及《合規手冊》，內容涵蓋反腐敗、反賄賂、利益衝突處理、反歧視、數據保密與安全等議題，並將員工的道德表現與其績效評估掛鉤，確保本公司的經營符合相關之商業道德。我們亦設立舉報及投訴熱線，以供全體員工及公眾舉報潛在的不道德行為及誠信事宜。所有舉報人員的私隱均會受到嚴密保護，並保證不會由於該舉報引致任何報復。於二零一六年，我們並無關於腐敗、欺詐、政治獻金、壟斷及其他不當行為的違反記錄。

有關我們的企業管治和董事會的其他資料，包括董事會的詳細成員資料、績效評估機制、選舉、報酬等，請參閱光大國際《二零一六年年報》，亦可透過<http://www.ebchinaintl.com>在線瀏覽。

## Our Supply Chain

## 我們的供應鏈

### Contract Worker Statistics 2016

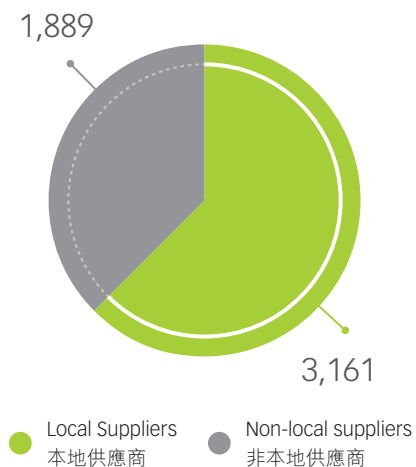
二零一六年外判工作人員統計



Total Number = 10,322  
總數

### Proportion of Local Suppliers in All Suppliers in 2016

二零一六年本地供應商數量佔所有供應商總數的比例



### Proportion of Payments to Local Suppliers in Total Payments to All Suppliers in 2016 (Unit: RMB)

二零一六年支付給本地供應商的款項佔支付給所有供應商的總款項的比例(單位:人民幣)



## Our Sustainable Business

### 我們的環保業務

The services provided by our suppliers are mainly environmental monitoring, equipment maintenance, cleaning and security etc., involving 10,322 contract workers. In 2016, the Company has engaged 5,050 suppliers, with 63% of local suppliers. The total contract value reached approximately RMB1,528 million, nearly 42% of which was paid to local suppliers. As part of the Company's projects are located in under-developed areas, this allocation pattern demonstrates our support to boost local economic development. Aiming to strengthen the strategic supply chain management, we conduct expense analysis for our suppliers on an annual basis and in 2016, the purchasing amount from the largest supplier contributed to 5% of the total, while the sum of those of the top five suppliers was 19%.

The Company has established a transparent and fair procedure for selecting and managing suppliers, in order to control the risks of sustainable development in the supply chain. Apart from the existing systems such as "Supplier Management Measures", "Tender Management Measures" and "Management Measures for Appraisal Expert Database of Project Construction Procurement", our implementation of the ESHS System during the year comprises the "Contractors ESHS Management Standards" which includes selection requirements for new suppliers as well as our expectations on the social responsibility performance of our business partners. In addition, as stated clearly in our "Supplier Management Practices", continuous assessments for our corporative units are performed based on the professional levels, financial status and compliance records. Suppliers are categorized into four grades from A to D, in which grade D suppliers will not be employed unless proofs of fulfillments of requirements can be provided.

我們供應商的主要服務包括環境監測、設備維修、清潔和保安等，涉及10,322名外判工人。二零一六年，本公司共有5,050個供應商，其中本地供應商佔63%。合共支付約人民幣15.28億元的合同價值，本地供應商佔約42%。由於本公司部份項目處於欠發達地區，該分配模式體現了我們對當地經濟發展的扶持和促進。為加強策略性的供應鏈管理，我們每年會對供應商進行費用分析，其中二零一六年度最大供應商的採購額為5%，五大供應商合計19%。

本公司對供應商的選擇和管理訂立了透明、公正的守則，以控制供應鏈中的可持續發展風險。除了現有的系統如《供應商管理辦法》、《招標管理辦法》和《工程建設採購評審專家庫管理辦法》外，我們在本年度實施的ESHS體系中包含了《承包商ESHS管理標準》，該標準包括對新供應商的選擇標準，以及我們對合作夥伴社會責任表現的期望。另外，我們的《供應商管理辦法》明確本公司根據專業水平、財務狀況及合規記錄等方面對現有合作單位進行持續評估，並將供應商劃分成A到D四個等級。等級D的供應商除非可以證明其能夠達到本公司的要求，否則將不被繼續錄用。

## Business Segments Overview



Achieved development driven by innovation and led by technology  
創新推動，科技引領發展



Listed on the Mainboard of the Singapore Stock Exchange Trading Limited; the post-acquisition integration progressed smoothly  
新加坡證券交易所主板上市公司，收購整合工作穩步推進



Integrating R&D, manufacturing and sales  
研發、製造、銷售，三位一體，全面出擊



Maintaining its rapid growth and the leading position in the industry  
繼續保持快速增長勢頭和行業領先地位



Witnessed exponential growth of all business  
整體業務呈現爆發式增長態勢



Establishing an overseas investment platform, focusing on countries and regions located along the "One Belt One Road" route as the core for business planning, to achieve win-win and shared development in overseas markets  
成立海外投資平台，以一帶一路沿線國家地區為核心業務佈局，尋求海外市場共贏共享

## 業務板塊概覽



## 2016 Power Generation Projects Operation Overview

## 2016年發電項目運營情況一覽

	Environmental Energy 環保能源	Greentech 綠色環保	Total 總計
<b>Operating capacity</b> 現有規模	Household waste processing capacity: 22,300 tonnes/day <sup>a</sup> 生活垃圾處理規模： 22,300噸／日 <sup>a</sup>	Agricultural and forestry waste processing capacity: 1,600,000 tonnes/year <sup>b</sup> , household waste processing capacity: 400 tonnes/day <sup>c</sup> 農林廢物處理規模： 1,600,000噸／年 <sup>b</sup> 、 生活垃圾處理規模： 400噸／日 <sup>c</sup>	—
<b>Contract capacity</b> 合約規模	Projected household waste processing capacity: 50,950 tonnes/day 預計生活垃圾處理規模： 50,950噸／日	Projected agricultural and forestry waste processing capacity: 6,199,800 tonnes/year, household waste processing capacity: 3,800 tonnes/day 預計農林廢物處理規模： 6,199,800噸／年、 生活垃圾處理規模： 3,800噸／日	—
<b>Net power generation capacity (million kWh)</b> 淨發電量 (百萬千瓦時)	2,473.11	891.41	3,364.52
<b>Number of clients</b> 客戶數目	Government clients 政府客戶 25 Commercial clients 商業客戶 36	30 1949	55 1,985
<b>Transmission line length (kilometers)</b> 輸電線路長度 (千米)	Ground 地上 141.04 Underground 地下 19.70	55.05 14.23	196.10 33.93
<b>Average plant availability (%)</b> 平均廠房利用率(%)	94.84%	95.84%	—
<b>Average generation efficiency (%)</b> 平均發電效率(%)	18.82%	36.00%	—

a: Referring to the daily treatment capacity of operating waste-to-energy projects as of 31 December 2016

a: 指截至2016年12月31日已投運的垃圾發電項目的日處理規模。

b: Referring to the annual agricultural and forestry waste treatment capacity of operating biomass integrated utilization projects as of 31 December 2016

b: 指截至2016年12月31日已投運的生物質綜合利用項目的年農林廢棄物處理規模。

c: Referring to the daily household waste treatment capacity of operating integrated biomass and waste-to-energy projects as of 31 December 2016

c: 指截至2016年12月31日已投運的生物質及垃圾一體化項目的生活垃圾日處理規模。

## Our Sustainable Business

### 我們的環保業務

The Company has secured a total of 213 environmental protection projects in over 80 counties and cities across 17 provinces and municipalities in China, as well as in overseas markets such as Germany, Poland and Vietnam.

已落實環保項目遍佈國內17省及直轄市、80多個縣市，遠至德國、波蘭、越南等地，共213個項目。

Locations of CEIL's projects (overseas markets)  
光大國際項目所在區域 (海外地區)

Germany  
德國



Poland  
波蘭



Vietnam  
越南



Singapore  
新加坡



## Newly secured projects in 2016 2016年新增項目

- |    |   |                         |
|----|---|-------------------------|
| 1  | Jiangsu Jiangyin Waste-to-energy Project Phase III  | 江蘇江陰垃圾發電項目三期            |
| 2  | Shandong Linshu Waste-to-energy Project   | 山東臨沭垃圾發電項目              |
| 3  | Shandong Laiyang Waste-to-energy Project  | 山東萊陽垃圾發電項目              |
| 4  | Hunan Xiangxiang Waste-to-energy Project  | 湖南湘鄉垃圾發電項目              |
| 5  | Shandong Zouping Waste-to-energy Project  | 山東鄒平垃圾發電項目              |
| 6  | Shandong Fei County Waste-to-energy Project   | 山東費縣垃圾發電項目              |
| 7  | Shandong Weifang Waste-to-energy Project Phase II   | 山東濰坊垃圾發電項目二期            |
| 8  | Shandong Jí'nan Waste-to-energy Project Expansion   | 山東濟南垃圾發電擴建項目            |
| 9  | Henan Taikang Waste-to-energy Project   | 河南太康垃圾發電項目              |
| 10 | Guangdong Boluo Waste-to-energy Project Phase II  | 廣東博羅垃圾發電項目二期            |
| 11 | Jiangsu Wuxi Xidong Waste-to-energy Project Entrusted Operation                                 | 江蘇無錫錫東垃圾發電項目委託運營        |
| 12 | Jiangsu Changzhou Xinbei Waste-to-energy Project Phase II                                       | 江蘇常州新北垃圾發電項目二期          |
| 13 | Jiangsu Suzhou Waste-to-energy Dismantling, Redevelopment & Upgrading Project                   | 江蘇蘇州垃圾發電項目拆舊建新項目        |
| 14 | Vietnam CanTho Waste-to-energy Project  | 越南芹苴垃圾發電項目              |
| 15 | Shandong Zhangqiu Waste Water Treatment Project (Plant 1)                                       | 山東章丘污水處理項目(第一廠)         |
| 16 | Shandong Zhangqiu Waste Water Treatment Project (Plant 2)                                       | 山東章丘污水處理項目(第二廠)         |
| 17 | Shandong Qingdao Waste Water Treatment Project (Maidao Plant) Upgrading                         | 山東青島污水處理項目(麥島廠)升級改造項目   |
| 18 | Jiangsu Xinyi City Waste Water Treatment Project  | 江蘇新沂城市污水處理項目            |
| 19 | Jiangsu Xinyi City Waste Water Treatment Project Upgrading                                      | 江蘇新沂城市污水處理提標改造項目        |
| 20 | Jiangsu Xinyi Economic Development Zone Waste Water Treatment Project Phase I                   | 江蘇新沂經濟開發區污水處理項目一期       |
| 21 | Jiangsu Xinyi Economic Development Zone Waste Water Treatment Project Expansion                 | 江蘇新沂經濟開發區污水處理擴建項目       |
| 22 | Shandong Ju County Shudong Waste Water Treatment Project  | 山東莒縣流東污水處理項目            |
| 23 | Jiangsu Nanjing Pukou Industrial Waste Water Treatment Project Phase I                          | 江蘇南京浦口開發區工業污水處理項目一期     |
| 24 | Henan Sanmenxia Waste Water Treatment Project Phase I Upgrading                                 | 河南三門峽污水處理項目一期提標改造       |
| 25 | Jiangsu Zhenjiang Sponge City PPP Project   | 江蘇鎮江海綿城市建設PPP項目         |
| 26 | Jiangsu Nanjing Municipal Water PPP Project   | 江蘇南京涉水市政工程PPP項目         |
| 27 | Henan Puyang Biomass Electricity and Heat Cogeneration Project                                  | 河南濮陽生物質熱電聯供項目           |
| 28 | Tianjin Ji County Biomass Direct Combustion Project   | 天津蓟縣生物質直燃項目             |
| 29 | Hubei Shayang Biomass Direct Combustion Project   | 湖北沙洋生物質直燃項目             |
| 30 | Sichuan Zhongjiang Integrated Biomass and Waste-to-energy Project (Biomass)                     | 四川中江生物質及垃圾發電一體化項目(生物質)  |
| 31 | Henan Xiayi Integrated Biomass and Waste-to-Energy Project (Biomass)                            | 河南夏邑生物質及垃圾發電一體化項目(生物質)  |
| 32 | Henan Xiayi Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy)                    | 河南夏邑生物質及垃圾發電一體化項目(垃圾發電) |
| 33 | Anhui Yu'an Biomass Electricity and Heat Cogeneration Project                                   | 安徽裕安生物質熱電聯供項目           |
| 34 | Anhui Yeji Biomass Electricity and Heat Cogeneration Project                                    | 安徽葉集生物質熱電聯供項目           |
| 35 | Jiangxi Guixi Biomass Electricity and Heat Cogeneration Project                                 | 江西貴溪生物質熱電聯供項目           |
| 36 | Anhui Dingyuan Salt-based Chemical Industrial Park Hazardous Waste Integrated Treatment Project | 安徽定遠鹽化工業園廢棄物綜合處置項目      |
| 37 | Jiangsu Nanjing Jiangnan Hazardous Waste Treatment Project                                      | 江蘇南京江南危廢處置項目            |
| 38 | Jiangsu Kunshan Hazardous Waste Incineration Project  | 江蘇昆山危廢焚燒項目              |
| 39 | Jiangsu Xinyi Hazardous Waste Landfill Project  | 江蘇新沂危廢填埋項目              |
| 40 | Shandong Linshu Hazardous Waste Treatment Projects  | 山東臨沭危廢處置項目              |
| 41 | Shandong Zibo Hazardous Waste Incineration Project (Phase II)                                   | 山東淄博危廢焚燒項目二期            |
| 42 | Sichuan Mianzhu Hazardous Waste Incineration Project  | 四川綿竹危廢焚燒項目              |
| 43 | Jiangsu Xinyi Animal Carcass Harmless Treatment Project   | 江蘇新沂動物無害化處理項目           |
| 44 | Project acquired in Poland (Novago)   | 波蘭併購項目 (Novago)         |

Locations of CEIL's projects (inland cities)  
 光大國際項目所在區域（內陸城市）

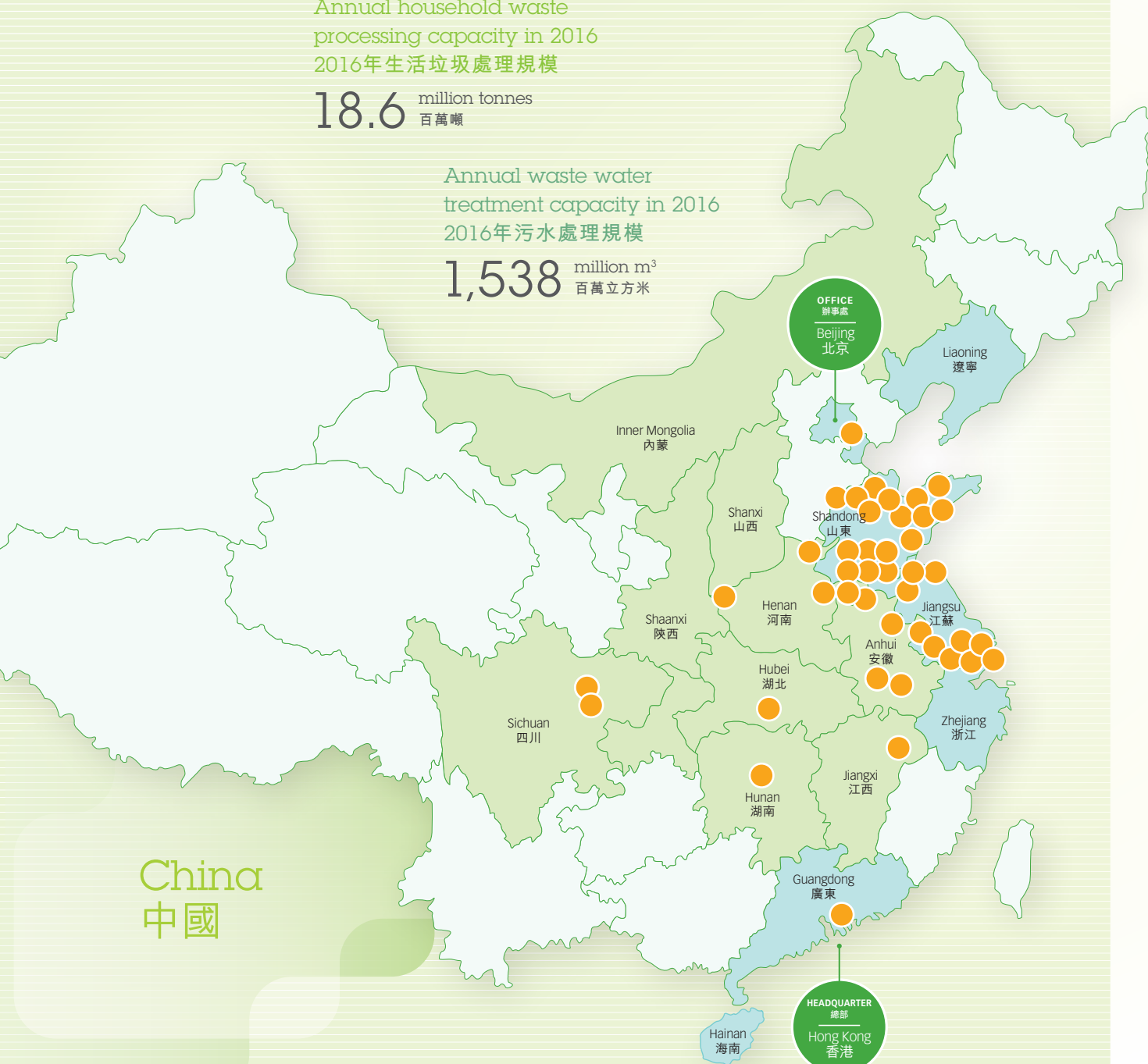
Locations of CEIL's projects (coastal cities)  
 光大國際項目所在區域（沿海城市）

Annual household waste  
 processing capacity in 2016  
 2016年生活垃圾處理規模

18.6 million tonnes  
 百萬噸

Annual waste water  
 treatment capacity in 2016  
 2016年污水處理規模

1,538 million m<sup>3</sup>  
 百萬立方米



China  
 中國

## Our Sustainable Business

### 我們的環保業務



**Nanjing Waste-to-Energy Project**  
南京垃圾發電項目

**Suqian Waste-to-Energy Project**  
宿遷垃圾發電項目

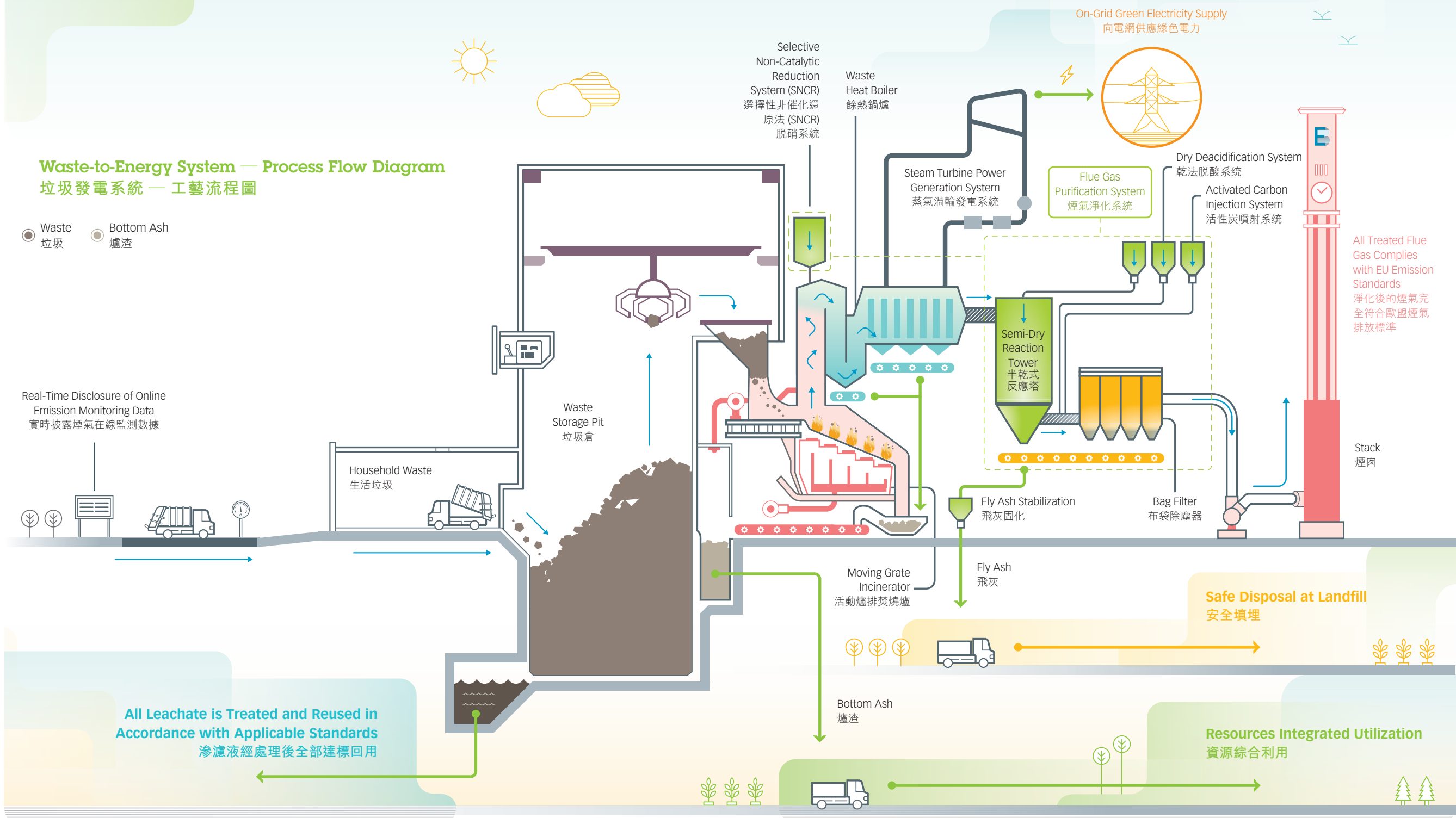


**Boluo Waste-to-Energy Project**  
博羅垃圾發電項目

**Rizhao Waste-to-Energy Project**  
日照垃圾發電項目



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



## Environmental Energy

## 環保能源

## Projects in Operation (Waste-to-Energy)

## 投運項目（垃圾發電）

	Projects	項目	Daily Waste Processing Capacity 日垃圾處理規模 (tonnes) (噸)
1	Suzhou Waste-to-Energy Project Phase I	蘇州垃圾發電項目一期	1,050
2	Suzhou Waste-to-Energy Project Phase II	蘇州垃圾發電項目二期	1,000
3	Suzhou Waste-to-Energy Project Phase III	蘇州垃圾發電項目三期	1,500
4	Yixing Waste-to-Energy Project Phase I	宜興垃圾發電項目一期	500
5	Jiangyin Waste-to-Energy Project Phase I	江陰垃圾發電項目一期	800
6	Jiangyin Waste-to-Energy Project Phase II	江陰垃圾發電項目二期	400
7	Changzhou Waste-to-Energy Project	常州垃圾發電項目	800
8	Zhenjiang Waste-to-Energy Project Phase I	鎮江垃圾發電項目一期	1,000
9	Ji'nan Waste-to-Energy Project	濟南垃圾發電項目	2,000
10	Suqian Waste-to-Energy Project	宿遷垃圾發電項目	600
11	Ningbo Waste-to-Energy Project Phase I	寧波垃圾發電項目一期	1,000
12	Nanjing Waste-to-Energy Project Phase I	南京垃圾發電項目一期	2,000
13	Pizhou Waste-to-Energy Project Phase I	邳州垃圾發電項目一期	600
14	Sanya Waste-to-Energy Project Phase I	三亞垃圾發電項目一期	700
15	Shouguang Waste-to-Energy Project Phase I	壽光垃圾發電項目一期	600
16	Zhenjiang Waste-to-Energy Project Phase II	鎮江垃圾發電項目二期	400
17	Boluo Waste-to-Energy Project Phase I	博羅垃圾發電項目一期	700
18	Weifang Waste-to-Energy Project Phase I	濰坊垃圾發電項目一期	1,000
19	Changzhou Xinbei Waste-to-Energy Project Phase I	常州新北垃圾發電項目一期	800
20	Rizhao Waste-to-Energy Project Phase I	日照垃圾發電項目一期	600
21	Ningbo Waste-to-Energy Project Phase II	寧波垃圾發電項目二期	500
22	Sanya Waste-to-Energy Project Phase II	三亞垃圾發電項目二期	350
23	Yiyang Waste-to-Energy Project	益陽垃圾發電項目	800
24	Wujiang Waste-to-Energy Project	吳江垃圾發電項目	1,500
25	Tengzhou Waste-to-Energy Project Phase I	滕州垃圾發電項目一期	700
26	Pei County Waste-to-energy Project Phase I	沛縣垃圾發電項目一期	400
	<b>Total</b>	<b>總計</b>	<b>22,300</b>

## Our Sustainable Business

### 我們的環保業務

#### Projects under Construction (Waste-to-Energy)

#### 在建項目（垃圾發電）

Projects	項目	Daily Waste Processing Capacity 日垃圾處理規模 (tonnes) (噸)
1	Hangzhou Waste-to-Energy Project	3,000
2	Pingdu Waste-to-Energy Project	600
3	Nanjing Waste-to-Energy Project Phase II	2,000
4	Suining Waste-to-Energy Project	800
5	Ma'anshan Waste-to-Energy Project	800
6	Gaochun Waste-to-Energy Project	500
7	Jiangyin Waste-to-Energy Project Phase III	1,000
8	Xintai Waste-to-Energy Project	600
9	Laiwu Waste-to-Energy Project	700
10	Suqian Waste-to-Energy Project Phase II	400
11	Lankao Waste-to-Energy Project Phase I	500
12	Ju County Waste-to-Energy Project Phase I	500
13	Yongzhou Waste-to-Energy Project Phase I	700
14	Zoucheng Waste-to-Energy Project Phase I	600
15	Xinzheng Waste-to-Energy Project Phase I	1,000
16	Huidong Waste-to-Energy Project	600
17	Weifang Waste-to-Energy Project Phase II	500
<b>Total</b>	<b>總計</b>	<b>14,800</b>

#### Projects in Operation (Methane-to-Energy)

#### 投運項目（沼氣發電）

Projects	項目	Average Annual Electricity Generation 年均發電量 (kWh) (千瓦時)
1	Suzhou Methane-to-Energy Project Phase I	18,000,000
2	Suzhou Methane-to-Energy Project Phase II	9,000,000
<b>Total</b>	<b>總計</b>	<b>27,000,000</b>

#### Project in Operation (Sludge Treatment and Disposal)

#### 投運項目（污泥處理處置）

Project	項目	Daily Processing Capacity 日處理規模 (Tonnes) (噸)
1	Sanya Sludge Treatment and Disposal Project	50
<b>Total</b>	<b>總計</b>	<b>50</b>

## Our Sustainable Business

### 我們的環保業務

#### Project in Operation (Food Waste Treatment)

#### 投運項目（餐廚垃圾處理）

Project	項目	Daily Processing Capacity 日處理規模 (Tonnes) (噸)	
1	Laiwu Food Waste Treatment Project	萊蕪餐廚垃圾處理項目	100
<b>Total</b>	<b>總計</b>	<b>100</b>	

#### Project under construction (Food Waste Treatment)

#### 在建項目（餐廚垃圾處理）

Project	項目	Daily Processing Capacity 日處理規模 (Tonnes) (噸)	
1	Suqian Food Waste Treatment Project	宿遷餐廚垃圾處理項目	100
<b>Total</b>	<b>總計</b>	<b>100</b>	

#### Environmental Protection Industrial Parks

#### 環保產業園

Industrial Parks	產業園	Estimated No. of Projects 預計項目數目	
1	Suzhou Everbright National Demonstration Veinous Industrial Park	蘇州市光大國家靜脈產業示範園	>10
2	Suqian Everbright Environmental Protection Industrial Park	宿遷市光大環保產業園	6-8
3	Changzhou Everbright Environmental Protection Industrial Park	常州市光大環保產業園	9
4	Weifang Everbright Environmental Protection Industrial Park	濰坊市光大環保產業園	>10
5	Yixing Everbright Environmental Protection Veinous Industrial Park	宜興市光大環保靜脈產業園	>10
6	Nanjing Everbright Environmental Protection Veinous Industrial Park	南京市光大環保靜脈產業園	>10
7	Zhenjiang New District Everbright Environmental Protection Industrial Park	鎮江新區光大環保產業園	6-8
8	Lianyungang Xuwei New District Environmental Protection Veinous Industrial Park	連雲港徐圩新區環保靜脈產業園	>10
9	Ganzhou Everbright Environmental Protection Veinous Industrial Park	贛州光大環保靜脈產業園	>10
10	Xinyi Environmental Protection Industrial Park	新沂環保產業園	6-8
11	Lankao Environmental Protection Veinous Industrial Park	蘭考環保靜脈產業園	>10



## Our Sustainable Business

### 我們的環保業務

#### Environmental Water

#### 環保水務

#### Projects in Operation (Waste Water Treatment)

#### 投運項目（污水處理）

	Projects	項目	Daily Waste Water Treatment Capacity 日污水處理規模 (m <sup>3</sup> ) (立方米)
1	Qingdao Waste Water Treatment Project (Maidao Plant)	青島污水處理項目（麥島廠）	220,000
2	Qingdao Waste Water Treatment Project (Haibohe Plant)	青島污水處理項目（海泊河廠）	
3	Zibo Waste Water Treatment Project (Southern & Northern Plants)	淄博污水處理項目（南郊廠及北廠）	250,000
4	Zibo Waste Water Treatment Project (Upgrading)	淄博污水處理項目（升級改造項目）	
5	Ji'nan Waste Water Treatment Project (Plant 1 & 2)	濟南污水處理項目（一廠及二廠）	420,000
6	Ji'nan Waste Water Treatment Project (Plant 1 & 2 Expansion and Upgrading)	濟南污水處理項目（一廠及二廠擴建升級項目）	80,000
7	Zibo High-tech Zone Waste Water Treatment Project	淄博韓廟高新區污水處理項目	100,000
8	Jiangyin Waste Water Treatment Project (Acquisition)	江陰污水處理項目（收購）	190,000
9	Jiangyin Waste Water Treatment Project (Upgrading)	江陰污水處理項目（升級改造）	
10	Zibo Zhoucun Waste Water Treatment Project Phase I	淄博周村污水處理項目一期	40,000
11	Binzhou Boxing Waste Water Treatment Project (Phase I)	濱州博興污水處理項目（一期）	30,000
12	Binzhou Boxing Waste Water Treatment Project (Upgrading and Phase II Upgrading and Expansion)	濱州博興污水處理項目（升級改造及二期升級、擴建項目）	30,000
13	Binzhou Boxing Waste Water Treatment Project (Upgrading and Expansion)	濱州博興污水處理項目（升級改造及擴建項目）	20,000
14	Ji'nan Licheng Waste Water Treatment Project (Plant 3) Phase I	濟南歷城污水處理項目（三廠）一期	100,000
15	Ji'nan Licheng Waste Water Treatment Project (Plant 3) Phase II	濟南歷城污水處理項目（三廠）二期	100,000
16	Ji'nan Xike Waste Water Treatment Project (Plant 4)	濟南西客污水處理項目（四廠）	30,000
17	Ling County Waste Water Treatment Project Plant 2 BOT Project	陵縣污水處理二廠BOT項目	30,000
18	Ling County Waste Water Treatment Project Plant 1 TOT Project	陵縣污水處理一廠TOT項目	
19	Ling County Waste Water Treatment Project Plant 1 TOT Project Upgrading	陵縣污水處理一廠TOT項目提標改造	30,000
20	Dezhou Nanyunhe Waste Water Treatment Project Phase I	德州南運河污水處理項目一期	75,000
21	Zhangqiu Waste Water Treatment Project (Plant 3)	章丘污水處理項目（第三廠）	30,000
22	Binzhou Development Zone Waste Water Treatment Project Phase I	濱州開發區污水處理項目一期	40,000
23	Kunshan Development Zone Waste Water Treatment Project Phase I	崑山開發區污水處理項目一期	25,000
24	Kunshan Development Zone Waste Water Treatment Project Phase II	崑山開發區污水處理項目二期	25,000
25	Lianyungang Dapu Waste Water Treatment Project	連雲港大浦污水處理項目	100,000

	Projects	項目	Daily Waste Water Treatment Capacity 日污水處理規模 (m <sup>3</sup> ) (立方米)
26	Lianyungang Xugou Waste Water Treatment Project Phase I	連雲港墟溝污水處理項目一期	40,000
27	Nanjing Pukou Waste Water Treatment Project Phase I	南京浦口污水處理項目一期	40,000
28	Nanjing Liuhe Waste Water Treatment Project Phase I	南京六合污水處理項目一期	20,000
29	Nanjing Liuhe Waste Water Treatment Project Phase II	南京六合污水處理項目二期	20,000
30	Suzhou Wuzhong Chengnan Waste Water Treatment Project Phase I	蘇州吳中城南污水處理項目一期	75,000
31	Yangzhou Jiangdu Development Zone Waste Water Treatment Project Phase I	揚州江都開發區污水處理項目一期	12,500
32	Yangzhou Jiangdu Development Zone Waste Water Treatment Project Phase II and Upgrading	揚州江都開發區污水處理項目二期及提標	12,500
33	Sanmenxia Waste Water Treatment Project Phase I	三門峽污水處理項目一期	30,000
34	Daxing Tiantanghe Waste Water Treatment Project Phase I	大興區天堂河污水處理項目一期	40,000
35	Xianyang Waste Water Treatment Project Phase I	咸陽東郊污水處理項目一期	100,000
36	Xianyang Waste Water Treatment Project Phase II	咸陽東郊污水處理項目二期	100,000
37	Ju County Waste Water Treatment Project	莒縣污水處理項目	40,000
38	Nanjing Pukou Waste Water Treatment Project Phase II and Upgrading	南京浦口污水處理項目二期及整體提標	40,000
39	Dalian Quanshui Waste Water Treatment Project	大連市泉水污水處理項目	35,000
40	Dalian Malanhe Waste Water Treatment Project Phase II	大連市馬欄河污水處理項目二期	80,000
41	Dalian Chunliuhe Waste Water Treatment Project Phase II	大連市春柳河污水處理項目二期	120,000
42	Dalian Siergou Waste Water Treatment Project	大連寺兒溝污水處理項目	100,000
43	Lvshun Bailanzi Waste Water Treatment Project Phase I	旅順柏嵐子污水處理項目一期	30,000
44	Lvshun Bailanzi Waste Water Treatment Project Phase II	旅順柏嵐子污水處理項目二期	
45	Lvshun Sanjianpu Waste Water Treatment Project	旅順三澗堡污水處理項目	10,000
46	Pulandian Waste Water Treatment Project Phase I	普蘭店市污水處理項目一期	20,000
47	Zhuanghe Waste Water Treatment Project Phase I	莊河市污水處理項目一期	30,000
48	Panjin 1st Waste Water Treatment Project	盤錦市第一污水處理項目	100,000
49	Panjin 1st Waste Water Treatment Project Upgrading	盤錦市第一污水處理項目提標改造	N/A
50	Anshan West 2nd Waste Water Treatment Project	鞍山市西部第二污水處理項目	100,000
51	Shenyang Hunnan New District Waste Water Treatment Project	瀋陽渾南新區污水處理項目	40,000
52	Dandong Waste Water Treatment Project	丹東市污水處理項目	100,000
53	Inner Mongolia Tongliao Development Zone Waste Water Treatment Project	內蒙古通遼開發區污水處理項目	50,000
54	Zhangqiu Waste Water Treatment Project (Plant 1)	章丘污水處理廠項目(第一廠)	50,000

## Our Sustainable Business

### 我們的環保業務

Projects	項目	Daily Waste Water Treatment Capacity 日污水處理規模 (m <sup>3</sup> ) (立方米)	
55	Zhangqiu Waste Water Treatment Project (Plant 2)	章丘污水處理廠項目(第二廠)	40,000
56	Ji'nan Waste Water Treatment Project (Plant 1) Expansion	濟南污水處理項目(一廠)擴建	50,000
57	Ji'nan Xike Waste Water Treatment Project (Plant 4) Phase II	濟南西客污水處理項目(四廠)二期	70,000
58	Xinyi City Waste Water Treatment Project	新沂市城市污水處理項目	70,000
59	Xinyi Economic Development Zone Waste Water Treatment Project Phase I	新沂經濟開發區污水處理項目一期	10,000
60	Suzhou Wuzhong Chengnan Waste Water Treatment Project Phase II and Upgrading	蘇州吳中城南污水處理項目二期及提標改造	75,000
<b>Total</b>	<b>總計</b>	<b>3,745,000</b>	

## Projects Completed Construction (Waste Water Treatment)

## 工程完工項目(污水處理)

Projects	項目	Daily Waste Water Treatment Capacity 日污水處理規模 (m <sup>3</sup> ) (立方米)	
1	Dalian Liangjiadian Waste Water Treatment Project Phase I	大連亮甲店污水處理項目一期	20,000
2	Daxing Tiantanghe Waste Water Treatment Project Phase II and Upgrading	大興區天堂河污水處理項目二期及提標改造	40,000
3	Pulandian Waste Water Treatment Project Phase I Expansion	普蘭店市污水處理項目一期擴建	20,000
4	Sanmenxia Waste Water Treatment Project Phase I Upgrading	三門峽污水處理項目一期提標改造	N/A
<b>Total</b>	<b>總計</b>	<b>80,000</b>	

## Projects under Construction (Waste Water Treatment) 在建項目 (污水處理)

Projects	項目	Daily Waste Water Treatment Capacity 日污水處理規模 (m <sup>3</sup> ) (立方米)
1	Xinyi City Waste Water Treatment Project Upgrading 新沂市城市污水處理項目 提標改造	N/A
2	Xinyi Economic Development Zone Waste Water Treatment Project Expansion 新沂市經濟開發區污水處理 擴建	10,000
3	Qingdao Waste Water Treatment Project (Maidao Plant) Upgrading 青島污水處理項目 (麥島廠) 提標改造	N/A
4	Ju County Shudong Waste Water Treatment Project 莒縣洙東污水處理項目	20,000
5	Nanjing Pukou Industrial Waste Water Treatment Project Phase I 南京浦口區工業污水處理 項目一期	10,000
6	Nanjing Municipal Water PPP Project 南京涉水市政工程PPP項目	Provide a number of treatment projects, and operation and maintenance works in the areas of river water quality improvement, river dredging, river training, river outfall remediation, river widening, transect restoring, riverbank greening and riverside environmental management 河流水質改善、河流疏浚、河道及排污口整治、河道拓寬、斷面修整、岸坡綠化、沿河環境提升等治理工程及後續運營維護
7	Zhenjiang Sponge City PPP Project 鎮江海綿城市建設PPP項目	Carry out a number of projects in the areas of rainwater pump stations, drainage networks, rainwater storage tanks and the ecological restoration and repair of certain rivers, etc 雨水泵站、排澇管道、雨水調蓄池、河流整治工程等

## Projects in Operation (Reusable Water) 投運項目 (中水回用)

Projects	項目	Water Supply Capacity 日供水量 (m <sup>3</sup> ) (立方米)
1	Ji'nan Licheng Reusable Water Project 濟南歷城中水項目	42,000
2	Jiangyin Reusable Water Project 江陰中水項目	10,000
3	Zibo Reusable Water Project Phase I 淄博中水項目一期	4,800
4	Zibo Reusable Water Project Phase II 淄博中水項目二期	4,800
<b>Total</b>	<b>總計</b>	<b>61,600</b>

## Our Sustainable Business

### 我們的環保業務

#### Project Completed Construction (Reusable Water)

工程完工項目（中水回用）

Project	項目	Water Supply Capacity 日供水量 (m <sup>3</sup> ) (立方米)
1	Nanjing Pukou Reusable Water Project Phase I	20,000
<b>Total</b>		<b>20,000</b>

#### Projects in Operation (Waste Water Source Heat Pump)

投運項目（污水源熱泵）

Projects	項目	Serviced Area 服務範圍 (m <sup>2</sup> ) (平方米)
1	Zibo Waste Water Source Heat Pump Project Phase I	125,000
2	Zibo Ceramic Technology Development Park Heat Pump Project	187,000
<b>Total</b>		<b>312,000</b>

#### Project Completed Construction and Transferred (BT Project)

建成移交項目（BT項目）

Project	項目	Daily Treatment/ Water Supply Capacity 日處理/供水量 (m <sup>3</sup> ) (立方米)
1	Xinyi Surface Water Project	100,000
<b>Total</b>		<b>100,000</b>

## Greentech

## 綠色環保

## Projects in Operation (Hazardous Waste Treatment)

## 投運項目(危廢處置)

Projects	項目	Annual Processing Capacity 年處理規模 (tonnes) (噸)
1	Suzhou Hazardous Waste Landfill Project (Phase I)	蘇州危廢填埋項目(一期)
		40,000
2	Suzhou Hazardous Waste Landfill Project (Phase II)	蘇州危廢填埋項目(二期)
3	Suqian Hazardous Waste Landfill Project	宿遷危廢填埋項目
		20,000
4	Lianyungang Hazardous Waste Incineration Project (Phase I)	連雲港危廢焚燒項目(一期)
		1,650 (incineration capacity 焚燒量)
5	Guanyun Hazardous Waste Landfill Project	灌雲危廢填埋項目
		20,000
6	Zibo Hazardous Waste Incineration Project (Phase I)	淄博危廢焚燒項目(一期)
		9,830 (incineration capacity 焚燒量)
7	Binhai Hazardous Waste Landfill Project	濱海危廢填埋項目
		30,000
8	Xinyi Hazardous Waste Incineration Project	新沂危廢焚燒項目
		9,500 (incineration capacity 焚燒量)
<b>Total</b>	<b>總計</b>	<b>130,980</b>

## Projects in Operation (Biomass)

## 投運項目(生物質)

Projects	項目	Annual Agricultural Waste Processing Capacity/ Daily Waste Treatment Capacity 年處理農作物 / 日處理垃圾量 (tonnes) (噸)
1	Hanshan Biomass Direct Combustion Project	含山生物質直燃項目
		300,000
2	Dangshan Integrated Biomass and Waste-to-Energy Project (Biomass)	碭山生物質及垃圾一體化項目(生物質)
		300,000
3	Huaiyuan Biomass Direct Combustion Project	懷遠生物質直燃項目
		280,000
4	Dingyuan Biomass Direct Combustion Project	定遠生物質直燃項目
		300,000
5	Xuyi Biomass Electricity and Heat Cogeneration Project	盱眙生物質熱電聯供項目
		300,000
6	Sucheng Biomass Heat Supply Project	宿城生物質供熱項目
		120,000
<b>Total</b>	<b>總計</b>	<b>1,600,000</b>
7	Dangshan Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy)	碭山生物質及垃圾一體化項目(垃圾發電)
		400
<b>Total</b>	<b>總計</b>	<b>400</b>

## Our Sustainable Business

### 我們的環保業務

#### Projects in Operation (Solar Energy)

#### 投運項目（光伏）

Projects	項目	Average Annual Electricity Generation Capacity 年均發電量 (kWh) (千瓦時)	
1	Changzhou Rooftop Solar Energy Project	常州屋頂光伏發電項目	4,113,000
2	Suqian Rooftop Solar Energy Project Phase I	宿遷屋頂光伏發電項目一期	2,205,000
3	Suqian Rooftop Solar Energy Project Phase II	宿遷屋頂光伏發電項目二期	6,198,000
4	Zhenjiang Rooftop Solar Energy Project	鎮江屋頂光伏發電項目	11,680,000
5	Zhenjiang Ground Solar Energy Project	鎮江地面光伏發電項目	4,059,000
6	Huaining Ground Solar Energy Project	懷寧地面光伏發電項目	2,170,000
7	German Ground Solar Energy Project	德國地面光伏發電項目	3,611,000
<b>Total</b>	<b>總計</b>	<b>34,036,000</b>	

#### Projects in Operation (Wind Power)

#### 投運項目（風電）

Projects	項目	Average Annual Electricity Generation Capacity 年均發電量 (kWh) (千瓦時)	
1	Zhaojia Mountain Wind Power Project Phase I	趙家山風電項目一期	230,000,000
2	Changfang Mountain Wind Power Project Phase I	長房山風電項目一期	
<b>Total</b>	<b>總計</b>	<b>230,000,000</b>	

#### Projects under Construction (Hazardous Waste Treatment) 在建項目（危廢處置）

Projects	項目	Annual Processing Capacity 年處理規模（焚燒量） (tonnes) (噸)	
1	Lianyungang Hazardous Waste Incineration Project (Phase II)	連雲港危廢焚燒項目（二期）	10,000
2	Changzhou Hazardous Waste Incineration Project	常州危廢焚燒項目	30,000
<b>Total</b>	<b>總計</b>	<b>40,000</b>	

## Projects under Construction (Biomass)

## 在建項目（生物質）

		Annual Agricultural Waste Processing Capacity/ Daily Waste Treatment Capacity 年處理農作物 ／日處理垃圾量(tonnes) (噸)	
Projects	項目		
1	Nanqiao Biomass Direct Combustion Project	南譙生物質直燃項目	300,000
2	Lingbi Integrated Biomass and Waste-to-Energy Project (Biomass)	靈璧生物質及垃圾發電一體化項目（生物質）	300,000
3	Xiao County Integrated Biomass and Waste-to-Energy Project (Biomass)	蕭縣生物質及垃圾發電一體化項目（生物質）	300,000
4	Mianzhu Integrated Biomass and Waste-to-Energy Project (Biomass)	綿竹生物質及垃圾發電一體化項目（生物質）	300,000
5	Guanyun Integrated Biomass and Waste-to-Energy Project (Biomass)	灌雲生物質及垃圾發電一體化項目（生物質）	289,800
6	Fengyang Integrated Biomass and Waste-to-Energy Project (Biomass)	鳳陽生物質及垃圾發電一體化項目（生物質）	300,000
7	Rugao Biomass Direct Combustion Project	如皋生物質直燃項目	280,000
8	Yeji Biomass Electricity and Heat Cogeneration Project	葉集生物質熱電聯供項目	300,000
<b>Sub-total</b>		<b>小計</b>	<b>2,369,800</b>
9	Lingbi Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy)	靈璧生物質及垃圾發電一體化項目（垃圾發電）	400
10	Xiao County Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy)	蕭縣生物質及垃圾發電一體化項目（垃圾發電）	400
11	Guanyun Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy)	灌雲生物質及垃圾發電一體化項目（垃圾發電）	500
12	Fengyang Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy)	鳳陽生物質及垃圾發電一體化項目（垃圾發電）	400
<b>Total</b>		<b>總計</b>	<b>1,700</b>

Development driven by technology is not only a key that leads the Company to grow but is also the core of the development strategies for every business segments.

科技進步不但是引領本公司成長的關鍵，更是各大板塊發展戰略的核心。

“Technology to Drive Development” helps the Company to further advance in the industry, in which Envirotech will strengthen the integration of “collaborations with institutions and research institutes” as well as the introduction and R&D of new technologies, making full effort in promoting the technology exports. Equipment Manufacturing has taken both domestic and overseas markets into consideration and has fully enhanced market expansion. On the other hand, Environmental Energy, Environmental Water and Greentech will give full play in their own fields of industrial technologies and the development of construction standards as the advantages to seek new development opportunities.

創新科技將帶領本公司全面進軍產業鏈高端領域。其中環境科技將加大「產、學、研」合作力度和新技術的引進和研發，全力推進技術的對外輸出；設備製造將立足國內，兼顧海外，全面加強市場開發；環保能源、環保水務、綠色環保則將充分發揮自身領域的工藝技術和建設標準等優勢，尋找新的發展商機。



## 4.

## Stakeholder Engagement 持份者的參與

Safety and Quality are  
**Our top Priorities**

安全重於泰山 質量生存之本



## Stakeholder Engagement

### 持份者的參與

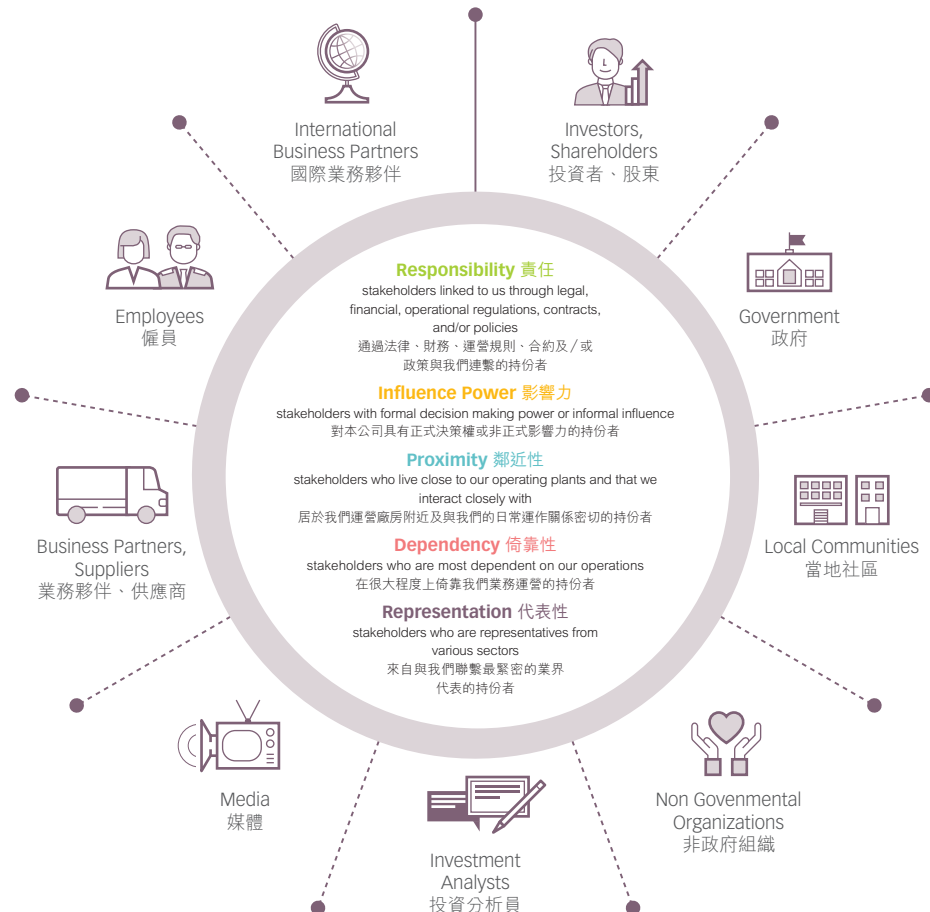


We believe that the voices of our stakeholders are valuable insights for the business development of the Company, and can assist the Company to balance the interests between parties in long-term strategic decision making. Therefore, we aspire to run our business with consistent stakeholder engagement.

Since our first sustainability report in 2012, the identification of our major stakeholders has been based on the following five selection principles: Responsibility, Influence Power, Proximity, Dependency and Representation. In 2016, we successfully navigated strong market competition and further expanded our overseas market through our winning bid for the first waste-to-energy project in Vietnam, and the acquisition of Poland's leading solid waste treatment company, further implementing our strategy of "Expanding from Domestic to Overseas Markets". In view of the developments of our overseas markets, "International Business Partners" has been added as a new group to our major stakeholders to ensure we keep up with the local situations of our overseas business. The nine major stakeholder groups of the Company and detailed identification principles are as follows:

我們相信持份者的聲音能為本公司的業務發展帶來真知灼見，有助於企業在作出長期的策略性決定時平衡各方團體的利益，因此，我們希望持份者緊密參與到本公司的業務運營當中。

我們自二零一二年起發表第一份可持續發展報告以來，主要持份者的界定均基於下列五個原則：責任、影響力、鄰近性、倚靠性和代表性。在二零一六年，我們透過中標首個越南的垃圾發電項目，以及收購波蘭領先的固廢處理公司，成功於激烈的競爭環境開拓海外市場，進一步實施「從國內到國外」的發展戰略。有鑑於此，「國際業務夥伴」更被納入為我們的主要持份者，從而確保我們貼近海外業務的當地情況。本公司的九個主要持份者組別及詳細界定方法如下：



## Stakeholder Engagement

### 持份者的參與

We pursue effective engagement and on-going dialogue with our stakeholders through collaborative, transparent and responsive channels. From our stakeholder participation plan which involves all project companies, the views of stakeholders have been actively listened to throughout the project lifecycle from the initial planning stage to the operation stage, which helps us identify high priority issues and the associated sustainability concerns within all our operating project. The effectiveness of our stakeholder engagement activities is also evaluated at different project phases to ensure that a wider range of voices can be well received.

我們通過具協作性、透明度和反應度的渠道以達至有效的持份者參與和持續溝通。在涉及所有項目公司的持份者參與計劃中，我們從初始的籌備階段及至運營階段均積極聆聽持份者的意見，以識別所有運營項目中的優先議題及相關的可持續發展事項。我們亦於不同的項目階段評估持份者參與活動的有效性，務求更深入聆聽廣泛的聲音。

### Voices of Stakeholders

In order to understand the concerns of every stakeholder group, we invited an independent consultant to conduct a stakeholder engagement survey with our stakeholders from nine different groups to express their opinions on our sustainability performance. The key findings of the survey are summarized as follows:

### 持份者心聲

為了解每個持份者組別的關注，我們邀請了獨立顧問進行持份者參與問卷調查，讓來自九個不同界別的持份者就我們可持續發展方面的表現表達意見。調查的主要結果總結如下：

#### Stakeholders' ratings for the sustainable development performance of CEIL in 2016:

持份者對光大國際二零一六年可持續發展表現的評分：

92/100  
100分為滿分



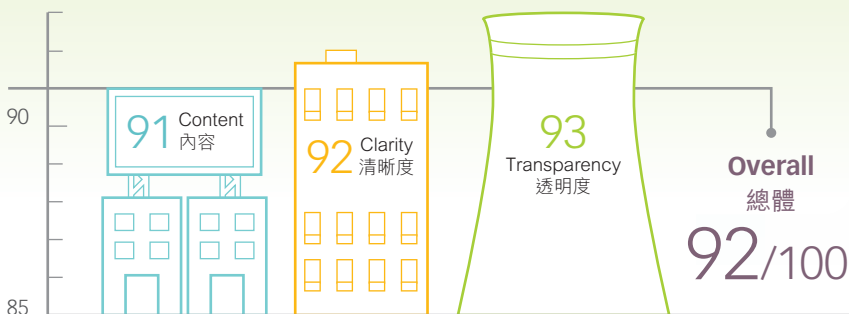
#### Is the engagement of CEIL with its stakeholders adequate?

光大國際與持份者的聯繫是否足夠？

90.2% Adequate 足夠  
9.8% Inadequate 不足夠

#### Stakeholders' ratings for CEIL's Sustainability Report 2015:

持份者對光大國際二零一五年可持續發展報告的評分：



#### Are the stakeholders aware of CEIL's international business?

持份者有否留意光大國際的海外業務？

80% Yes 有  
20% No 沒有

### CEIL's Employees

*"CEIL has directly communicated with us through various channels, from traditional media like magazines, journals, conferences to modern communication platforms like the Internet and Wechat corporate account, etc., so that we can quickly and intuitively feel the Company's development and core values. We can get the most updated information on the relevant policies, regulations and business development of the Company."*

### CEIL's Suppliers

*"CEIL uses leading technology, advanced management, and higher standards to implement sustainable development, and is an enterprise with outstanding performance with regards to economic, environmental and social aspects."*

### Investment Analysts

*"CEIL's core businesses (Envirotech, Environmental Energy, Environmental Water, Greentech, Equipment Manufacturing and International Business) promote the sustainable development of our society. Also, the strict adherence to high emission standards is one of the advantages of CEIL. I visited the projects of CEIL and admired their excellent operating standards. Therefore, I give high ratings to CEIL."*

Understanding the concerns of each stakeholder is another objective of the stakeholder survey. We believe this will help us develop strategies timely to meet the needs of our stakeholders and take a precautionary approach for risk management. In addition, the identification of critical concerns of stakeholders is crucial for the determination of material topics of the Report. The following table summarizes our stakeholder engagement exercises and the issues of highest concerns.

### 光大國際員工

“光大國際與我們以多種方式展開了直接的溝通，由傳統傳媒的雜誌、期刊、會議等，到現代傳播方式的網絡、微信公眾號等方式，使我們快捷、直觀地感受到公司的發展及理念的傳導。我們能夠及時知曉公司出台的相關政策、制度規章和經營發展情況。”

### 光大國際的供應商

“光大國際採用領先的技術、先進的管理、更優的標準，把可持續發展落到了實處，是一家能夠在經濟、環保和社會表現等方面可持續發展表現突出的企業。”

### 投資分析員

“光大國際的核心業務（環境科技、環保能源、環保水務、綠色環保、裝備製造、國際業務）推動社會達致可持續發展。不僅如此，光大國際嚴格遵守排放標準是其優處之一。我曾經親身到光大國際的廠房參觀並對他們優秀的運營標準為之讚嘆。因此，我對光大國際給予很高的評價。”

是次持份者調查的另一個重要目的是了解各持份者的關注事項。我們相信這有助於我們及時制定策略滿足持份者的需求，做到防患問題於未然。此外，識別持份者的關注事項對本報告重大議題的定立至關重要。下表總結了本公司持份者參與活動的情況及其關注事項。

## Stakeholder Engagement

## 持份者的參與



Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequency or Time of Engagement 參與的頻率或時間	Issues of Highest Concern 持份者最關注的事項
Investors/ Shareholders 投資者／股東	Annual/Extraordinary general meeting 週年／特別股東大會  Press release/Announcement 新聞稿／公告  Annual/Interim report 年報／中期報告  Non-deal roadshow 非交易性路演  Circular and meeting 通函、會議	Year-end/Ad-hoc 年末／非特定  Regularly published on the Company website 定期於公司網站發佈  Year-end/Interim 年末／年中  Regular/Ad hoc 定期／非特定  Regular/Ad hoc 定期／非特定	<ul style="list-style-type: none"> <li>Indirect economic impacts 間接經濟影響</li> <li>Social compliance 社會合規</li> <li>Anti-corruption 反腐敗</li> </ul>
Employees 僱員	Business meeting and conference 工作會議、專題會議  Interim/Year-end performance appraisal meeting 年中／年末表現評估會議  Everbright periodical 光大報刊  Charitable activity 公益活動  Face-to-face meeting 當面會談  CEO's mailbox 總裁郵箱	Regular 定期  Interim/Year-end 年中／年末  Monthly/Bi-weekly 每月定期／雙週定期  Ad-hoc 非特定  Ad-hoc (as per the needs of the employees) 非特定（根據員工需要）  Ad-hoc (as per the needs of the employees) 非特定（根據員工需要）	<ul style="list-style-type: none"> <li>Environmental compliance 環保合規</li> <li>Environmental grievance mechanisms 環境問題申訴</li> <li>Economic performance 經濟績效</li> </ul>
International Business Partners 海外業務夥伴	Tele-conference 電話會議  Email 電郵聯繫	Monthly 每月定期  Monthly 每月定期	<ul style="list-style-type: none"> <li>Economic performance 經濟績效</li> <li>Research and development 科研及開發</li> <li>Labor/Management relations 勞資關係</li> </ul>
Governments 政府	Progress report 進度報告  Site visit 現場考察  Meeting 會議  Wechat and QQ 微信及QQ  Telephone and email 電話、電郵聯繫	Weekly/Monthly/Quarterly 每週／月／季定期  Weekly/Monthly/Quarterly 每週／月／季定期  Weekly/Monthly/Quarterly 每週／月／季定期  Ad-hoc (as per the needs of the governments) 非特定（根據政府需要）  Weekly/Monthly/Quarterly 每週／月／季定期	<ul style="list-style-type: none"> <li>Operational efficiency 運營效能</li> <li>Materials and resources usage 物料及資源利用</li> <li>Waste water and waste management 污水和廢棄物處理</li> </ul>
Business partners/ Suppliers 業務夥伴／供應商	Procurement tender 採購招標會  Telephone interview 電話回訪  Survey 調查問卷  Wechat and QQ 微信及QQ	Ad-hoc 非特定  Ad-hoc 非特定  Upon request 根據需要  Ad-hoc (as per the needs of business partners) 非特定（根據業務夥伴需要）	<ul style="list-style-type: none"> <li>Procurement practices 採購行為</li> <li>Greenhouse gas management and climate change mitigation 管理溫室氣體排放及應對氣候變化</li> </ul>



Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequency or Time of Engagement 參與的頻率或時間	Issues of Highest Concern 持份者最關注的事項
Local communities 當地社區	Site visit 現場考察／參觀	Before construction work/ Open Day at the first weekend of each month 工程施工前／每月第一個 週末之公眾開放日	<ul style="list-style-type: none"> <li>Waste water and waste management 污水和廢棄物處理</li> <li>Environmental compliance 環保合規</li> <li>Environmental education 環境教育</li> <li>Greenhouse gas management and climate change mitigation 管理溫室氣體排放及應對氣候變化</li> <li>Waste water and waste management 污水和廢棄物處理</li> </ul>
	Survey 意見調查	Before construction work/ Ad-hoc 工程施工前／非特定	
	Public hearing 公聽會	Before construction work/ Ad-hoc 工程施工前／非特定	
Media 媒體	Site visit 現場考察	Ad hoc/Upon request 非特定／按需要	<ul style="list-style-type: none"> <li>Economic performance 經濟績效</li> <li>Environmental compliance 環保合規</li> <li>Employee welfares 員工福利</li> </ul>
	Press release 新聞稿	Regularly published on the Company website/Ad-hoc 定期於公司網站發佈／ 非特定	
	Executives interview 管理層採訪	Regular/Ad-hoc (as per the request by the media) 定期／非特定（根據媒體 需要）	
Investment analysts 投資分析員	Site visit 現場考察	Regular/Ad hoc 定期／非特定	<ul style="list-style-type: none"> <li>Economic performance 經濟績效</li> <li>Environmental compliance 環保合規</li> <li>Employee welfares 員工福利</li> </ul>
	Meeting 會議	Regular/Ad hoc 定期／非特定	
	Press release/Announcement 新聞稿／公告	Regularly published on the Company website 定期於公司網站發佈	
	Annual/Interim Report 年報／中期報告	Year-end/Interim 年中／年末	
Non-governmental organizations 非政府組織	Charitable activity 公益活動	Ad-hoc 非特定	<ul style="list-style-type: none"> <li>Economic performance 經濟績效</li> <li>Greenhouse gas management and climate change mitigation 管理溫室氣體排放及應對氣候變化</li> </ul>
	Site visit 現場考察	Regular/Ad-hoc 定期／非特定	

## Stakeholder Engagement

### 持份者的參與

## Materiality Assessment

In order to identify the most significant sustainability risks and opportunities of CEIL, we conduct the comprehensive materiality assessment on an annual basis. This assessment guides the prioritization of topics identified during the stakeholder engagement process and helps us determine the economic, environmental and social issues that are of most interest or concern to the Company and its stakeholders, in order to make adjustments in resource allocation and to provide critical clarity on the reporting and communications in the sustainability report.

The major steps of our materiality assessment this year are summarized as follows:

## 實質性評估

為識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，確定本公司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，並使可持續發展的報告和通訊更具針對性。

本年度實質性評估的主要步驟總結如下：



## Overview of Sustainability Topics

### Materiality Matrix

The 16 prioritized material topics were translated into GRI Standard Disclosures. Based on these Standard Disclosures, this Report will disclose the sustainability performance of the relevant operating projects under the Company's management during the Reporting Period, which include waste-to-energy, methane-to-energy, biomass power generation, solar energy, wind power, hazardous waste integrated treatment, waste water treatment, reusable water, etc. The new scope of the Report is mainly due to the new projects which commenced operation in 2016, please refer to the "Business Segment Overview" section in Chapter 3 of the Report for more details.

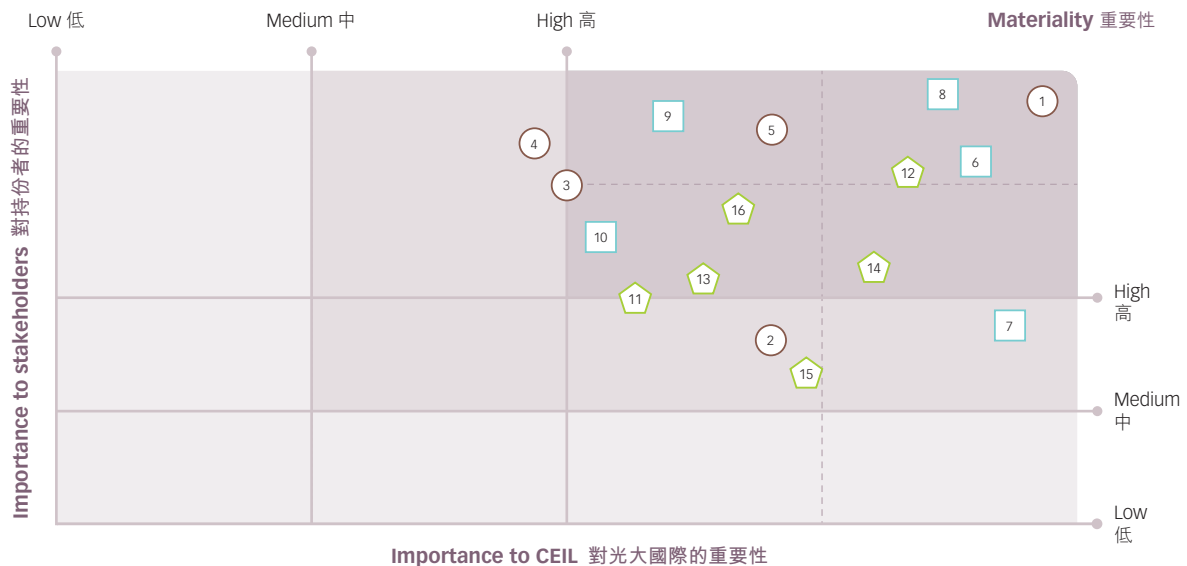
## 可持續發展議題概覽

### 重大議題矩陣

上述16個經優先排序的重大議題被轉換成GRI的標準披露。本報告將圍繞這些標準披露，匯報本公司擁有運營控制權並於報告期間運營中的垃圾發電、沼氣發電、生物質發電、光伏發電、風力發電、危廢綜合處理、污水處理、中水回用等環保項目的可持續發展表現。本報告新增的報告範圍主要涉及二零一六年新投運的項目，請參閱本報告第三章節中的『業務板塊概覽』。

### Sustainability Priorities

#### 可持續發展的優先排序



Economy 經濟	Environment 環境	Society 社會
① Economic Performance* 經濟績效*	⑥ Waste Water and Waste Management* 污水及廢棄物處理*	⑪ Labor/ Management Relations* 勞資關係*
② Market Presence* 市場表現*	⑦ Environmental Compliance* 環保合規*	⑫ Occupational Health and Safety* 職業健康與安全*
③ Indirect Economic Impacts* 間接經濟影響*	⑧ Greenhouse Gas Management and Climate Change Mitigation* 溫室氣體管理及氣候變化的應對*	⑬ Training and Education** 培訓及教育**
④ Research and Development* 科研及開發*	⑨ Materials and Resources Usage (including Energy and Water Consumption)* 物資及資源使用(包括能源及用水)*	⑭ Diversity and Equal Opportunity* 多元化及機會平等*
⑤ Operation Efficiency* 運營績效*	⑩ Environmental Education* 環境教育*	⑮ Employee Welfares** 員工福利**
		⑯ Disaster/Emergency Planning and Response* 災難及應急預案規劃*

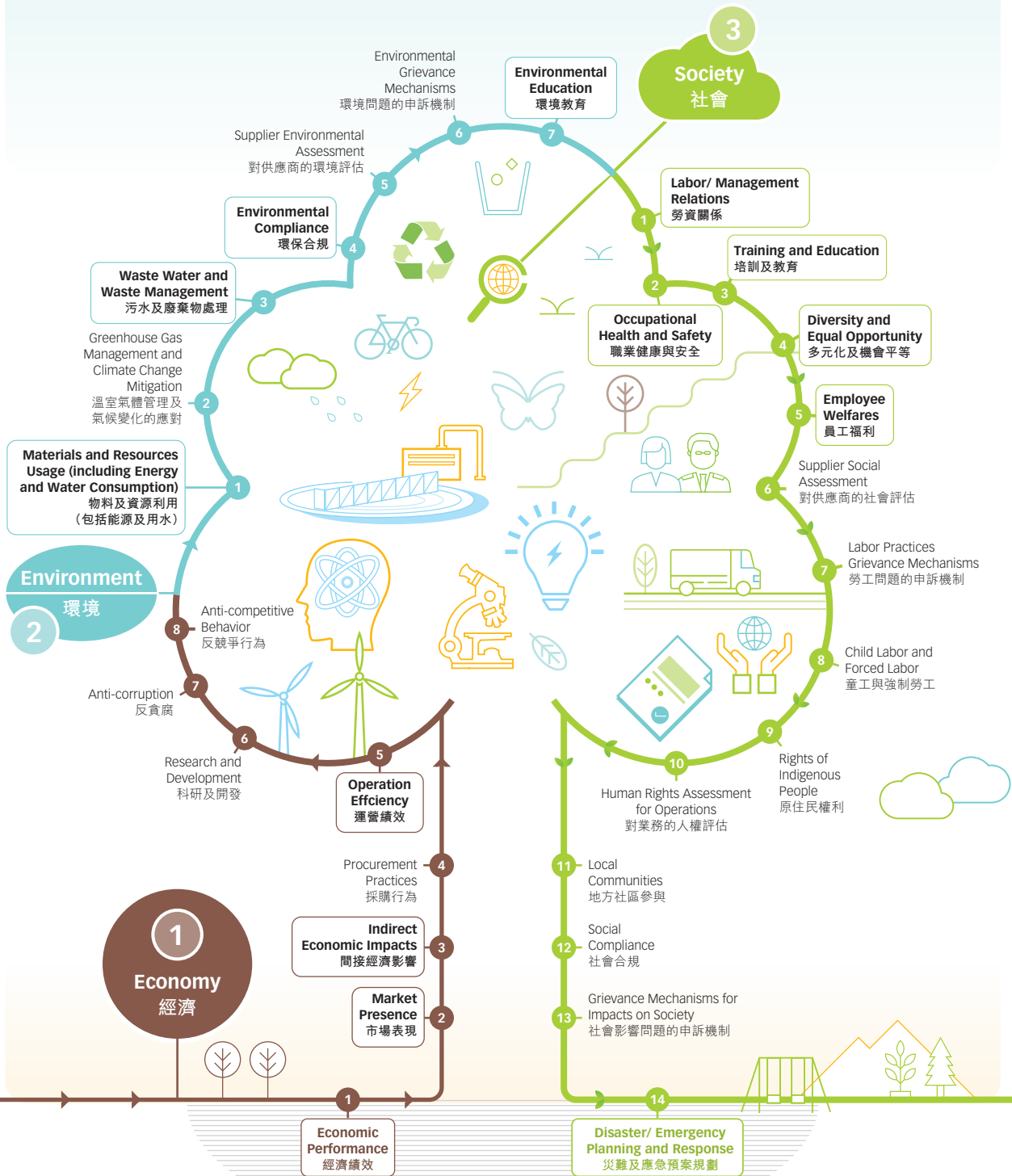
**Topic boundary 議題界限**

\* Inside and outside CEIL 光大的外部與內部;  
\*\* Inside CEIL only 光大內部



# Stakeholder Engagement 持份者的參與

## Sustainability Priorities 可持續發展的優先排序





**Materials Topics covered in the Report**  
本報告涵蓋的可持續發展重要議題

**Stakeholder Groups**  
持份者組別<sup>a</sup>

Categories 類別	GRI Standard Disclosure GRI標準披露	Within CEIL 光大國際內部				Outside CEIL 光大國際外部				
		IS	E	IB	G	L	BS	M	A	N
Economy 經濟	Economic Performance 經濟績效	✓	✓	✓	✓	✓	✓		✓	
	Market Presence 市場表現		✓		✓	✓				✓
	Indirect Economic Impacts 間接經濟影響	✓		✓	✓	✓	✓	✓		✓
	Research and Development 科研與開發	✓	✓	✓	✓		✓	✓	✓	
	Operation Efficiency 運營績效	✓	✓	✓	✓	✓	✓	✓	✓	
Environment 環境	Materials 物資	✓	✓	✓			✓			✓
	Energy 能源	✓	✓	✓	✓		✓			✓
	Water 水	✓	✓	✓	✓		✓			✓
	Emission and Discharge 排放	✓	✓	✓	✓	✓		✓	✓	✓
	Waste Water and Waste 污水及廢物	✓	✓	✓	✓	✓		✓	✓	✓
	Environmental Compliance 環保合規	✓	✓	✓	✓	✓		✓	✓	✓
	Environmental Education 環境教育		✓		✓	✓	✓	✓		✓
Society 社會	Employment 僱傭	✓	✓							✓
	Labor/Management Relations 勞資關係	✓	✓	✓						✓
	Occupational Health and Safety 職業健康與安全	✓	✓	✓	✓		✓			✓
	Training and Education 培訓及教育	✓	✓	✓			✓			✓
	Diversity and Equal Opportunity 多元化及機會平等		✓	✓		✓	✓	✓		✓
	Disaster/Emergency Planning and Management 災難及應急預案規劃	✓	✓	✓	✓	✓	✓	✓		✓

Remarks:

- a. Explanation of stakeholder groups: IS – Investors/Shareholders; E – Employees; IB – International Business Partners; G – Government; L – Local Communities; BS – Business Partners/Suppliers; M – Media; A – Investment Analysts; N – NGOs

備註:

- a. 持份者組別簡稱解釋: IS – 投資者/股東; E – 僱員; IB – 海外業務夥伴; G – 政府; L – 當地社區; BS – 業務夥伴/供應商; M – 傳媒; A – 投資分析員; N – 非政府組織

## 5.

## Environmental Management 環境管理

We Pride Ourselves on the  
**Highest Operating Standards  
and Innovative Technology**

以安全運營為基礎 以達標排放為天職 以科技創新為龍頭



## Environmental Management

### 環境管理

As a leading environmental protection enterprise in China, the Company regards building an environmentally friendly society as our responsibility, and we have pioneered in production and operation methods. Led by the Environmental Management Team chaired by our Chief Executive Officer, the ESHS Management System and Risk Management System were implemented by the Company in 2016. With the aim of disclosing information, our two-pronged approach strengthens our daily operation management and controls environmental risks from source by setting up a complete system that integrates pre-event risk identification and assessment, on-going risk inspection and review, as well as post-event appraisal and evaluation, providing a healthy platform for CEIL's sustainable development. We have also taken a step further to develop and implement the "Environmental Management Enterprise Policy", which includes the Company's commitments to environmental compliance, environmental risk management and due diligence, technological improvement and ecodesign, supplier environmental management, etc. The policy has been made publicly available on the Company's official website. In order to ensure stable operations and compliance with emission standards, most of our operating plants are certified to ISO 14001 Environmental Management System to avoid secondary pollution during the production process.

The Company's commitment to environmental protection and technological advance is not only the driving force of our development, but has also brought us various international recognitions. During the Reporting Period, the Company has signed the "Strategic Cooperation Agreement to Provide Green Financial Support for Ecological Environment Construction" with China Development Bank Corporation, which provides long term and stable financial support for CEIL's next round of sustainable, steady and speedy development. The scope of the cooperation covers our four major business operations namely Envirotech, Environmental Energy, Environmental Water and Greentech so as to support the overseas businesses that are aligned with the national "One Belt One Road" initiative of each business segment. Our successful experience in operating waste-to-energy public-private partnership ("PPP") projects are recognized by the United Nations Economic Commission for Europe ("UNECE") International PPP Centre of Excellence ("ICoE"), and our Chief Executive Officer, Mr. Chen Xiaoping has been invited to be the leader of the team responsible for developing the "People-first PPP in Waste to Energy Guideline". Furthermore, the Company was selected to be included in the Dow Jones Sustainability World Index in 2016 due to its outstanding performance in environmental management, making it the only Mainland China and Hong Kong listed company that has been added to the index for the year. At the same time, the Company has also been included in the Dow Jones Sustainability Emerging Markets Index.

作為中國領先的環保企業，本公司以創建綠色社會為己任，勇當生產和運營方式的先行者。在由行政總裁牽頭的環境管理小組的帶領下，本公司於二零一六年實行了ESHS以及風險管理體系。兩個體系以信息披露為導向，建立了一套由事前識別評估、事中檢查審核、事後考核評價的完整制度，強化日常管理水平，從源頭上控制環境風險，為光大國際的可持續發展提供了一個健康的平台。我們更制定並實踐《環境管理企業政策》，包括本公司對環保合規、環境風險管理和盡職調查、技術改進和環保設計、供應商環境管理等議題的承諾。政策已上載於本公司的官方網站供大眾瀏覽。為確保項目的穩定運行和達標排放，我們大部分運營中的廠房均取得ISO 14001環境管理體系認證，防止生產過程中的二次污染。

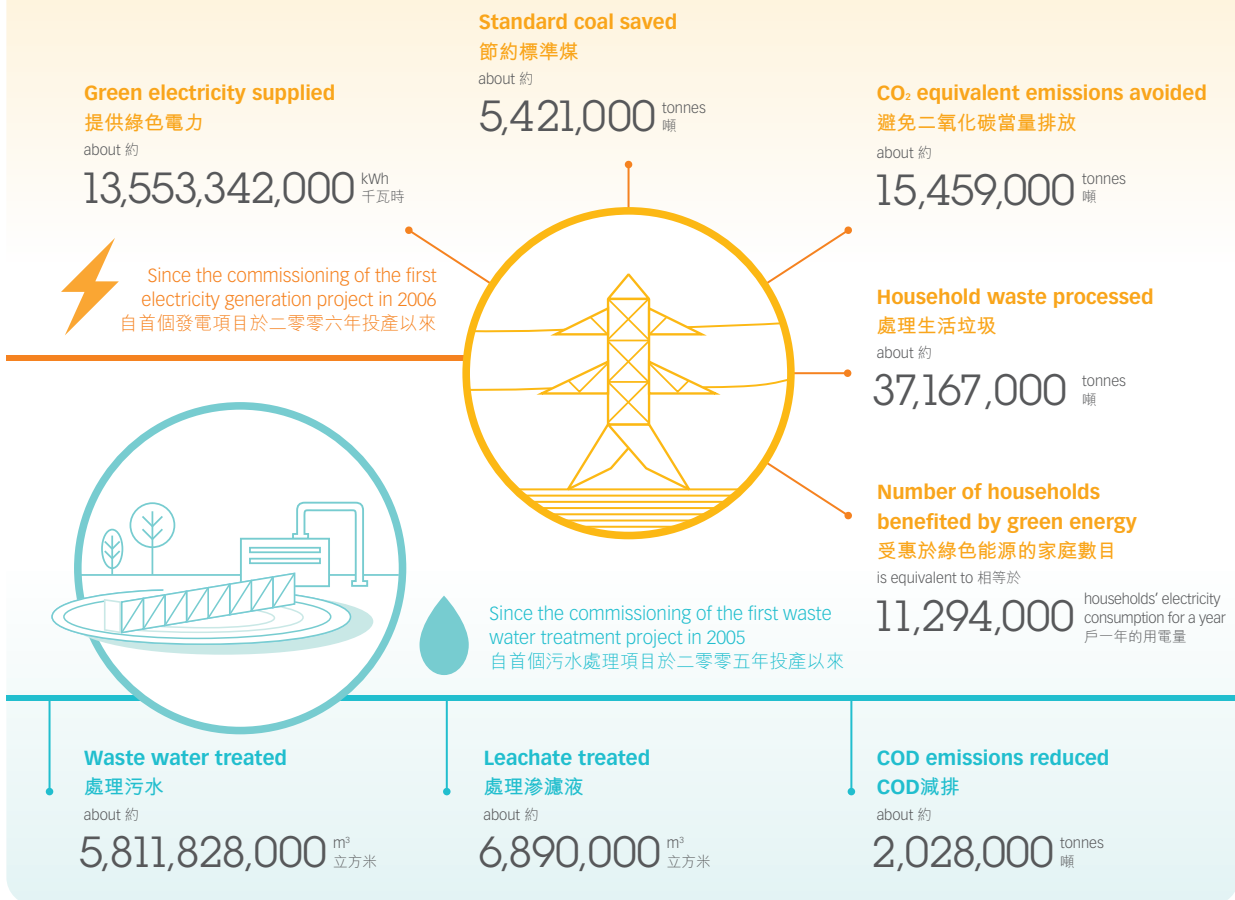
我們對環保與技術的執著追求不但是本公司發展的動力，更使我們在國際上屢獲殊榮。本公司於報告期間與國家開發銀行簽署《綠色金融支持生態環境建設戰略合作協議》，為光大國際新一輪持續、穩健、快速的發展提供長期、穩定的資金保障。合作範圍覆蓋環境科技、環保能源、環保水務、綠色環保四大主營業務以及配合各業務板塊圍繞「一帶一路」走出去的海外業務。我們在垃圾發電公共私營合作制（「PPP」）項目的成功運行經驗獲聯合國歐洲經濟委員會PPP國際卓越中心認可，並邀請本公司行政總裁陳小平先生擔任國際專家組長，牽頭聯合國《以人為本PPP公私夥伴關係—固廢變能源指南》。本公司更憑藉出色的環境管理表現於二零一六年首次成功上榜道瓊斯可持續發展全球指數，成為當年該指數唯一一家上榜的中國大陸及香港上市企業，同時也獲納入道瓊斯可持續發展新興國家指數。

## Environmental Management

### 環境管理

### Cumulative Environmental Contributions

#### 累計環保貢獻



### CEIL Added Into Dow Jones Sustainability World Index

#### 光大國際上榜道瓊斯可持續發展全球指數

### CASE STORY

#### 個案分享



Launched in 1999, the Dow Jones Sustainability Index ("DJSI") is compiled by Dow Jones and RobecoSAM Group annually and is the longest-running global sustainability benchmark system. Using a "best-in-class" approach, the DJSI assesses corporate sustainability performance and the capabilities of the world's leading sustainable development corporations from economic, environmental and social development perspectives. Only the most sustainable companies in each industry are selected to be included in the Dow Jones Sustainability World Index, making the Index an internationally-recognized benchmark to measure social responsibility and sustainable development. CEIL's inclusion in the DJSI is a recognition of the Company's performance in relation to sustainable development and its leadership in the industry globally. We are very honored to be the only company from Mainland China and Hong Kong to be included in the Dow Jones Sustainability World Index in 2016. This is a testament to the work CEIL has done to successfully establish itself as a leading player in the industry internationally, and it is further evidence of solid progress we have made towards becoming a globally advanced company.

道瓊斯可持續發展指數於1999年推出，每年由道瓊斯和RobecoSam集團負責統計，是發展歷史最悠久的全球可持續發展的基準。應用同業最優法則，該指數系列衡量全球可持續發展領先企業的表現，基於經濟、環境和社會標準三方面的全面評估，以投資角度評價企業可持續發展的能力，而只有在行業處於領先地位的企業方可被選入道瓊斯可持續發展全球指數，這也是全球公認的社會責任及可持續發展參考標準，充分體現光大國際的可持續發展以及在行業的國際領先地位得到的認可。作為2016年中國大陸及香港唯一一家上榜道瓊斯可持續發展全球指數的企業，我們感到十分榮幸，也充分說明了光大國際已成功進入全球行業的領軍者地位，也正在向世界先進企業大步邁進。

## Air Emissions Management and Climate Change Mitigation

Waste-to-energy has been a strong supporting force for environmental protection as well as sustainable development, yet the potential pollutants discharged by operating projects have been the focus of the stakeholders. The Company is committed to the proper management of air emissions through adhering to the highest emission standards and improving our information disclosure mechanism. All our energy generating projects adhere to stringent national and international pollution control requirements: for our waste-to-energy projects, on top of meeting the Standard for Pollution Control on the Municipal Solid Waste Incineration (GB18485-2014) and the standards of flue gas emissions are also fully executed according to the "Euro 2010" (Directive 2010/75/EU on Industrial Emissions and its relevant Annexes/Amendments) have been fully executed. In addition, our biomass power generation projects meet the "Emission Standard of Air Pollutants for Thermal Power Plants" (GB13223-2011). We have also been tightening the flue gas emission standards, improving the resources utilization efficiencies and increasing the transparency of our operating projects.



The "Four Steps" environmental information disclosure plan of CEIL was initiated in 2015. On 13 August 2015, the Company publicly disclosed the emission standards and environmental management information of its operating waste-to-energy projects for the first time, becoming the first company to disclose emission standards and environmental management information of all its waste-to-energy projects in the industry. In 2016, the Company achieved the target to disclose on a daily basis the daily average emission levels of its operating waste-to-energy projects. Since mid-May of 2016, daily average level of online monitored gas emissions of the operating waste-to-energy projects for the previous day were disclosed on the environment management page of the Company's official website, and it began the disclosure of hourly average gas emission levels on 1 January 2017. On this basis, we welcome public supervision with an aim to steadily improve and fine-tune our operational management and continue to lead the industry in improving information transparency. The disclosed indicators include:

-  Daily average level of online monitored gas emissions (disclosure on daily basis)
-  Test results of the quality of water discharged from leachate treatment facilities (disclosure on daily basis)

## 管理氣體排放及應對氣候變化

垃圾發電為環境保護和可持續發展提供了強大支持，但其於運營中所排放的潛在污染物向來是持份者關注的重點。本公司致力於透過遵循最高的排放標準和改善信息披露機制，妥善管理氣體排放。我們旗下的發電項目均遵守嚴格的國內外污染控制要求：垃圾發電項目在符合「生活垃圾焚燒污染控制標準」(GB18485-2014)的前提下，煙氣排放指標全面執行歐盟2010標準（即歐盟工業排放指令2010/75/EU及相關附表／修訂）；我們的生物質發電項目則達到「火電廠大氣污染物排放標準」(GB13223-2011)。我們更不斷提高煙氣排放指標，提升資源利用效率及增加我們運營項目的透明度。

光大國際環評信息披露「四步走」計劃始於二零一五年。於二零一五年八月十三日，本公司首次對外公佈運營垃圾發電項目排放標準及環境管理信息，成為行業內率先披露所有運營垃圾發電項目排放指標及環境管理信息的企業。於二零一六年，公司實現按日披露運營垃圾發電項目排放日均值的目標，自二零一六年五月中起在官網的環境管理欄目公開前一日各運營垃圾發電項目煙氣在線監測指標日均值，並於二零一七年一月一日起按小時均值披露。此舉旨在主動接受公眾監督，不斷提升及完善本公司的運行管理水平，並進一步引領行業信息透明化。披露內容涵蓋：

-  煙氣在線監測指標的日均值（按日披露）
-  滲濾液處理設施出水指標檢測值（按日披露）

## Environmental Management

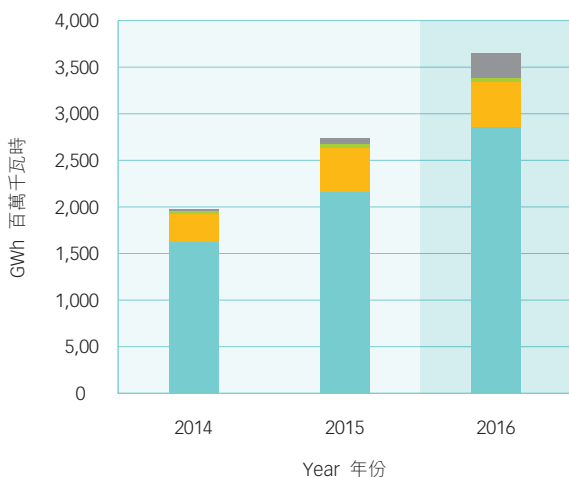
### 環境管理

- 🌿 Ignition loss rate of bottom ash (disclosure on daily basis)
- 🌿 Environmental impact assessment approval documents
- 🌿 Flue gas dioxins testing results (disclosure on quarterly basis)
- 🌿 Test results of stabilized fly ash and third-party testing institutions (disclosure on monthly basis)
- 🌿 爐渣熱灼減率檢測值（按日披露）
- 🌿 環評批覆文件
- 🌿 煙氣二噁英檢測結果（按季度披露）
- 🌿 飛灰穩定化結果與第三方檢測機構（按月披露）

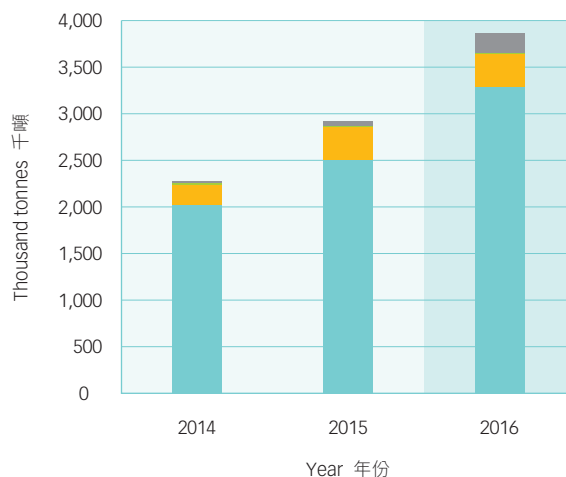
We regard playing a demonstrative role in the industry as our responsibility, the standards and efficiency of our newly constructed waste-to-energy projects have been significantly improved through our successful applications of grate furnaces, flue gas purification systems and the third generation of leachate treatment technology. The 750-tonne/day grate furnace at Wujiang Waste-to-energy Project which commenced operation in 2016 was the first homebuilt high capacity grate furnace in China, and have filled a void in China's high capacity waste-to-energy facility manufacturing segment. In addition, we increased the frequency of flue gas dioxins testing from at least twice a year to four times a year during the Reporting Period, which is higher than the national requirement of once a year.

我們始終堅持以創建行業示範為己任，隨著爐排爐、煙氣淨化系統及滲濾液處理第三代技術的成功應用，新建成的垃圾發電項目在標準及效益上均顯著提升。二零一六年投運的吳江垃圾發電項目配置的750噸／日爐排爐是中國第一台完全實現「中國製造」的大型爐排爐，填補了國產大容量生活垃圾發電裝備的空白。我們亦於報告期間將煙氣二噁英的檢測頻率由每年不低於兩次提升為每年至少四次，高於國家每年一次的檢測要求。

**Green Electricity Generation by Types of Operation**  
按運營類型劃分的綠色發電量



**Carbon Dioxide Emission Avoided by Types of Operation**  
按運營類型劃分的二氧化碳減排量



● Solar energy/Wind power  
光伏發電／風力發電

● Landfill gas and Leachate/  
Sludge methane-to-energy  
填埋氣及滲濾液／污泥沼氣發電

● Biomass power generation  
生物質發電

● Waste-to-energy  
垃圾發電

In 2016, approximately 3,654 GWh of green electricity was produced from our waste-to-energy projects, biomass power generation projects, methane-to-energy projects, solar energy projects and wind power projects, supporting the annual electricity consumption for more than 3.045 million households. Compared to 2015, there has been a significant increase in total electricity generation by 33%. In addition, through our clean energy business, we have avoided approximately 3.86 million tonnes of CO<sub>2</sub> equivalent emissions during the Reporting Period. The average unit electricity generation of waste-to-energy projects reached a record high of 386 kWh per tonne of waste incinerated, which is approximately 20% higher than our performance in the previous year.

2016 marks the opening year of the 13th Five-Year Plan, in which the intensive introduction of environmental protection and renewable energy policies have outlined a clear and promising development blueprint for the environmental protection industry. The Report on the Work of the Government, published in March, emphasized that green development would be the main theme for future development. Furthermore, the 21st yearly session of the Conference of the Parties ("COP") to the United Nations Framework Convention on Climate Change (UNFCCC) was held at the end of 2015 in Paris and has established the long-term global goal to cope with climate change. China, as one of the participants of the Paris Agreement, has brought opportunities and challenges to CEIL's project management and climate change management strategies due to its emphasis on low carbon development. As an alternative to coal power, the Company's environmental protection projects themselves act as a contributing force to the low-carbon development of local communities. The Project Management and Environmental Management Departments lead our project companies to further reduce carbon footprints through actions such as competitions on power generation efficiencies and energy efficiency. Risks associated with climate change are regarded as one of the environmental and social risks and are integrated in our internal risk reporting and control systems.

於二零一六年，我們的垃圾發電項目、生物質發電項目、沼氣發電項目、光伏發電項目和風力發電項目合共提供綠色電力約36.54億千瓦時，可供逾304.5萬戶家庭一年使用，較二零一五年的發電量相比大幅上升約33%。此外，本公司的清潔能源項目於報告期間合共避免二氧化碳當量排放約達386萬噸。垃圾發電廠焚燒每噸垃圾平均發電量達386千瓦時，較去年的表現上升約20%。

二零一六年是中國「十三五」規劃實施的開局之年，環保和新能源政策密集出台無疑為環保行業勾勒出一幅更加清晰、亟待實施的發展藍圖。三月發佈的《政府工作報告》中再度強調了綠色發展將會是未來發展的主旋律。另外，《聯合國氣候變化框架公約》第二十一屆締約方大會自二零一五年年底在巴黎召開，建立了全球應對氣候變化的長期目標。中國作為《巴黎協定》締約國之一，其對低碳發展的重視為光大國際的項目管理和氣候變化應對策略同時帶來了機遇與挑戰。本公司的環保項目作為煤炭的替代能源，其運營本身就有助於當地的低碳發展。我們的項目管理及環境管理部更引領各項目公司透過設定發電效能、參與節能比賽等舉措，進一步降低項目的碳足跡。與氣候變化相關的風險亦作為環境和社會風險之一，納入我們的內部風險報告和控制體系。



## Environmental Management

### 環境管理

During the Reporting Period, the Company has continued to lower the greenhouse gas (“GHG”) emissions of our operating projects by the use of low carbon energy sources and reduction of fugitive emissions. We have also adopted the requirements of Clean Development Mechanism (“CDM”) of the United Nations Framework Convention on Climate Change (UNFCCC) to measure and manage the GHG emission of our waste-to-energy and biomass power generation projects in a more accurate manner. The GHG emission calculation methodologies of CDM include CO<sub>2</sub> equivalent emissions from the fossil fuel used for electricity generation process, emissions from fossil carbon fraction of the household wastes/biomass, methane arisen from anaerobic digestion of leachate, and fuel used for transportation of biomass. In comparison with the national requirements, more comprehensive disclosure in terms of types, quantity and scopes of GHG emission are enabled in our reporting, providing greater transparency to our stakeholders.

本公司於報告期間繼續透過採納低碳能源、逸散性氣體削減措施等策略降低項目運營中的溫室氣體排放，並按照《聯合國氣候變化框架公約》中清潔發展機制（「CDM」）之要求，更準確地計算及管理垃圾發電和生物質發電項目的溫室氣體排放量。CDM的計算方法將發電項目中使用化石燃料的二氧化碳當量排放、生活垃圾／生物質內的化石碳、滲濾液經厭氧消化產生的甲烷、運送生物質所消耗的燃料等排放狀況包含在內。與國內的要求相比，我們的披露工作在溫室氣體的排放種類、排放量和範疇三個層面為持份者帶來了更具透明度的數據。

### GHG Emission by Types of Operation in 2016

### 二零一六年按運營類型劃分的溫室氣體排放量

Type of Operation 運營類型	Scope 1 GHG Emission 範疇一 溫室氣體排放		Scope 2 GHG Emission 範疇二 溫室氣體排放		Scope 3 GHG Emission 範疇三 溫室氣體排放		Total GHG Emission 溫室氣體 總排放量
	Main sources 主要來源	Emission 排放量	Main sources 主要來源	Emission 排放量	Main sources 主要來源	Emission 排放量	
Environmental Energy <sup>a</sup> 環保能源	Fuel oil used for operation; CO <sub>2</sub> , NO <sub>2</sub> and methane produced from waste incineration; Methane produced from anaerobic digestion of leachate 運營消耗的燃油； 垃圾焚燒產生的 二氧化碳、二氧化氮和 甲烷；滲濾液經厭氧 消化處理產生的甲烷	4,948,009.68	Non-renewable electricity used for operation 運營消耗的非再生電力	3,644.02	No significant source 無重大來源	–	4,951,653.70
Environmental Water 環保水務	No significant source 無重大來源	–	Non-renewable electricity used for operation 運營消耗的非再生電力	363,387.69	No significant source 無重大來源	–	363,387.69
Greentech <sup>b</sup> 綠色環保 <sup>b</sup>	Fuel oil and natural gas used for operation; Methane produced from biomass incineration 運營消耗的燃油和 天然氣；生物質焚燒 產生的甲烷	6,839.04	Non-renewable electricity used for operation 運營消耗的非再生電力	1,006.25	Fuel used for transportation of biomass 運送生物質所 消耗的燃料	5,114.10	12,959.39

Unit: tonne CO<sub>2</sub> equivalent 單位：噸二氧化碳當量

<sup>a</sup> The boundary of GHG calculation for Environmental Energy segment covers all operating waste-to-energy projects in 2016; the calculation methodology is based on the CDM approved methodology ACM0022: Alternative waste treatment processes (Version 2.0)

<sup>a</sup> 環保能源的溫室氣體核算邊界為二零一六年投運的所有垃圾發電項目，溫室氣體的核算方法乃參照清潔發展機制訂立的AM0022：多選垃圾處理方式（版本2.0）

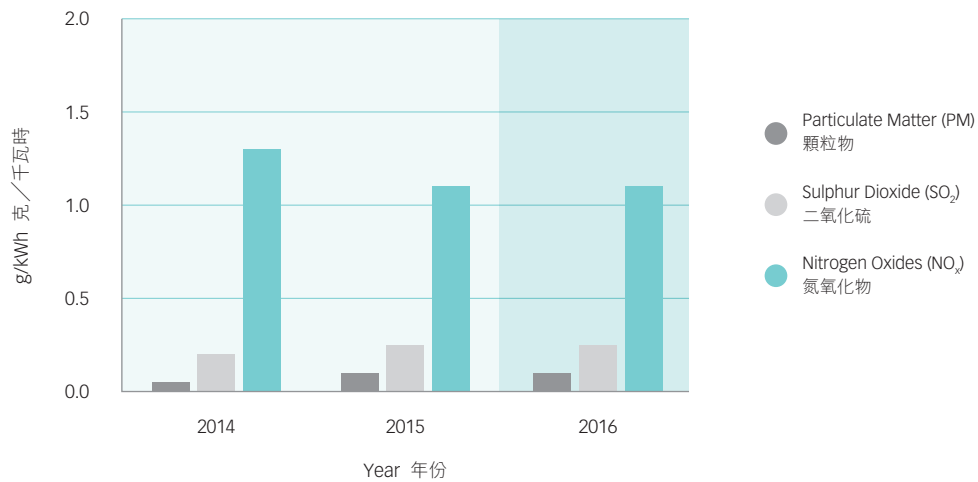
<sup>b</sup> The boundary of GHG calculation for Greentech segment covers all operating biomass power generation projects in 2016; the calculation methodology is based on the CDM approved methodology ACM0018: Electricity generation from biomass residues in power-only plants (Version 3.0)

<sup>b</sup> 綠色環保的溫室氣體核算邊界為二零一六年投運的所有生物質發電項目，溫室氣體的核算方法乃參照清潔發展機制之ACM0018：純發電廠利用生物廢棄物發電（版本3.0）

CEIL strictly controls the air emissions of its waste-to-energy and biomass power generation projects. Our main air emissions include particulate matter ("PM"), SO<sub>2</sub> and NO<sub>x</sub>. Our key production process does not involve the use of ozone depleting substances such as refrigerant.

光大國際嚴格控制垃圾發電及生物質發電項目單位廢氣排放量，主要包括顆粒物、二氧化硫及氮氧化物。我們的主要生產環節不涉及製冷劑等臭氧層消耗物質的使用。

**Air Emission Performance per kWh of Green Electricity Generated by Waste-to-energy and Biomass Power Generation Projects in the Past Three Years**  
過往三年間垃圾發電和生物質發電發電項目  
每千瓦時發電量的廢氣排放量



## Waste Water and Waste Management

Leachate, waste water and waste are produced during the operations of our environmental protection projects, but with reasonable treatments, the materials can be reused to improve resource efficiency and reduce impacts to the environment. Our waste treatment strictly follows the principles of "reusing first, incinerating second, and sanitary landfilling only when reuse and incineration are not feasible", and we employ synergetic eco treatment to handle medical waste and food waste. Most residue and ash generated from the power generation projects are recycled and utilized for brick making. We also actively increase the recycling rate of sludge generated from our waste water treatment projects. In most of our waste-to-energy projects, all leachate generated was treated on-site by our self-developed leachate treatment system and reused accordingly to achieve "Zero Discharge".

## 污水及廢物處理

環保項目的運營會產生滲濾液、污水和廢物，但只要經過合理的處理則能變廢為寶，提升資源利用效率，減少對環境的影響。我們對垃圾處理遵循「能用的不燒，能燒的不埋，不能用的不能燒的衛生填埋」的原則，對醫療垃圾、餐廚垃圾等採用協同方式環保處理。絕大部分發電項目所產生的爐渣經處理，用於製磚，並積極提升污水處理廠之污泥的循環利用率。絕大部分的垃圾發電項目產生的滲濾液採用我們自主研發的滲濾液處理系統，把滲濾液於廠內循環再用，從而達致滲濾液「零排放」。

## Environmental Management

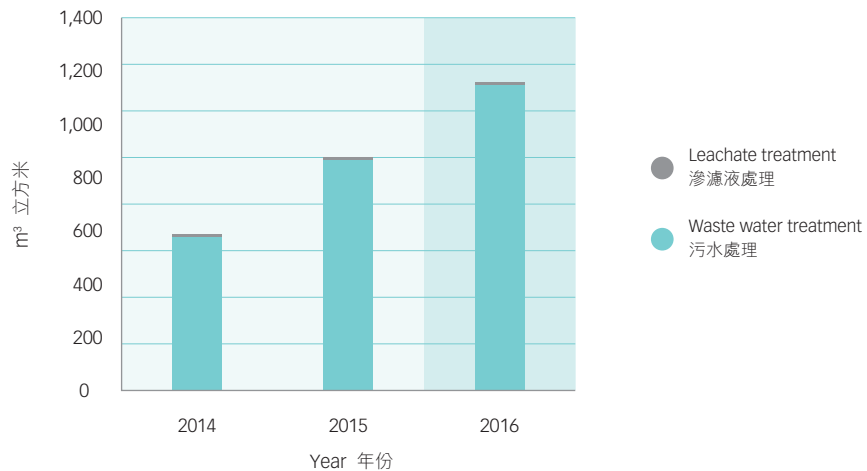
### 環境管理

In 2016, the Company's operating waste water treatment projects treated over 1.15 billion m<sup>3</sup> of waste water while our Environmental Energy projects treated 1.724 million m<sup>3</sup> of leachate. In total, these operations reduced 293,000 tonnes of COD emissions. All waste water produced during project operations is treated by our onsite waste water treatment facilities, so as to ensure compliance with national standard requirements, such as "Integrated Waste Water Discharge Standard" (GB 8978-1996), as well as the requirements of environmental impact assessment reports approved by the local governments. In 2016, Qingdao's Maidao Waste Water Treatment Plant received upstream water with abnormalities, leading to unintentional increase in ammonia nitrogen in the effluent. We have been conducting technical upgrades on the treatment process so as to improve the waste water treatment performance.

二零一六年，本公司運營的污水處理項目共處理超過11.5億立方米的污水；我們的環保能源項目則處理滲濾液172.4萬立方米。該等運營合共削減約293,000噸的COD排放量。我們在項目運營中產生的所有污水均由廠內的污水處理設施處理，以符合「污水排放標準」(GB 8978-1996)等國家標準，以及經政府認可的環境影響評估報告提出的要求。在二零一六年，青島麥島污水處理廠由於上游進水水質異常，導致出水氨氮濃度上升。我們一直以來均以提升處理效能為目標，適時展開污水處理過程的技術升級。

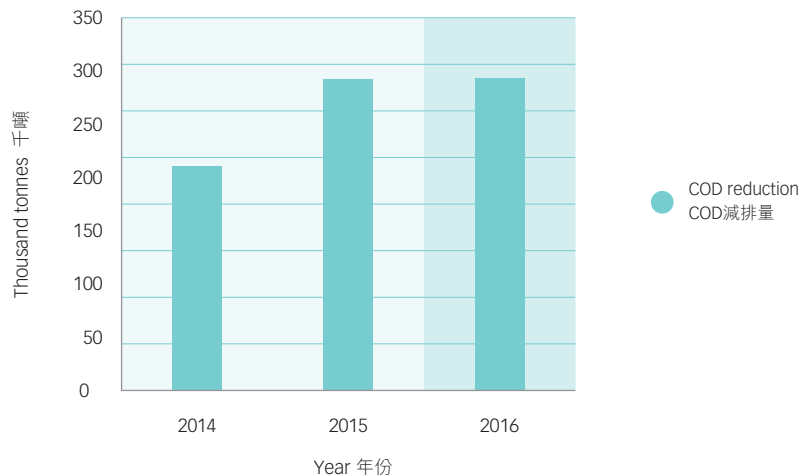
### Waste Water/Leachate Treatment in the Past Three Years

#### 過往三年污水及滲濾液處理量



### COD Reduction in the Past Three Years

#### 過往三年的COD減排量



Fly ash and bottom ash are the main wastes generated from our waste-to-energy and biomass power generation projects. Fly ash generated from waste-to-energy projects is regarded as hazardous waste and will be first solidified by a chelating agent in compliance with the "Standard for Pollution Control on the Landfill Site of Municipal Solid Waste" (GB16889-2008), which is then sent for disposal at a designated area in the landfill site or sent to a hazardous waste landfill for safe disposal, so as to prevent secondary pollution. Bottom ash is regarded as general solid waste and is handled according to the "Standard for Pollution Control on the Landfill site for Municipal Solid Waste" (GB16889-2008). We strive to recycle the bottom ash from the electricity generation projects by recycling them for integrated utilization such as brick making. Waste water generated during brick making process, such as waste water from the pretreatment of bottom ash, cleaning water from the mixing machines and floor washing water is collected and reused for production after treatment. Leachate from our waste-to-energy projects undergoes a strict treatment process to achieve reusable standards before it is used to replenish circulating water, where the remaining portion is injected back to the furnace, achieving "Zero Discharge" of leachate. The reverse-osmosis water produced from the leachate treatment complies with water quality standards of water reusing in open-type recirculating cooling water systems as stipulated in Table 1 of "The Reuse of Urban Recycling Water – Water Quality Standard for Industrial Uses" (GB/T 19923-2005). The treated water can be reused to replenish circulating water for waste-to-energy projects, and the concentrated water can be reused in incineration facilities such as lime mortar equipment. The Company had no spilling accidents in 2016.

#### Fly Ash Disposed from Waste-to-energy and Biomass Power Generation Projects by Disposal Methods in 2016

飛灰和爐渣是本公司垃圾發電和生物質發電項目產生的主要廢物。垃圾發電項目產生的飛灰屬於危險廢物，處理方法為經螯合劑螯合固化滿足「生活垃圾填埋場污染控制標準」(GB16889-2008)後，送往垃圾填埋場單獨分區填埋，或進入危廢填埋場進行安全填埋，杜絕二次污染。爐渣屬於一般固體廢物，根據「生活垃圾填埋場污染控制標準」(GB16889-2008)按一般固體廢物進行處理。我們堅持對發電項目所產生的爐渣透過製磚等方式進行資源綜合利用，而在制磚生產過程中產生的爐渣預處理廢水、攪拌機清洗廢水、地面沖洗水，則經收集處理後全部回用於生產。垃圾發電項目的垃圾滲濾液經嚴格處理達回用水質標準後回用於循環補充水，少量回噴入爐，達致滲濾液「零排放」，其中經處理的反滲透出水在達到「城市污水再生利用工業用水水質」(GB/T 19923-2005)表1規定的敞開式循環冷卻水系統補充水水質標準後，回用於焚燒項目的循環補充水，濃水則回用於石灰漿設備等焚燒設施。本公司於二零一六年沒有發生洩漏事件。

#### 二零一六年垃圾發電和生物質發電項目的飛灰棄置量及處置方式

Types of operation	運營類型	Safe landfill disposal after solidification 固化後安全填埋	Integrated utilization (e.g. brick making) 綜合利用 (如製磚)	Treatment by qualified companies 運至合資格公司處理	Total 總計
Waste-to-energy	垃圾發電	235,884.16	-	-	23,884.16
Biomass Power Generation	生物質發電	3162.75	32,445.70	4,580.00	40,188.45

Unit: tonnes 單位：噸

#### Bottom Ash Disposed from Waste-to-energy and Biomass Power Generation Projects by Disposal Methods in 2016

#### 二零一六年垃圾發電和生物質發電項目的爐渣棄置量及處置方法

Types of operation	運營類型	Integrated utilization (e.g. brick making) 綜合利用 (如製磚)	Re-incineration 重新焚燒	Treatment by qualified companies 運至合資格公司處理	Total 總計
Waste-to-energy	垃圾發電	1,733,527.08	-	-	1,733,527.08
Biomass Power Generation	生物質發電	92,054.52	35.00	833.00	92,922.52

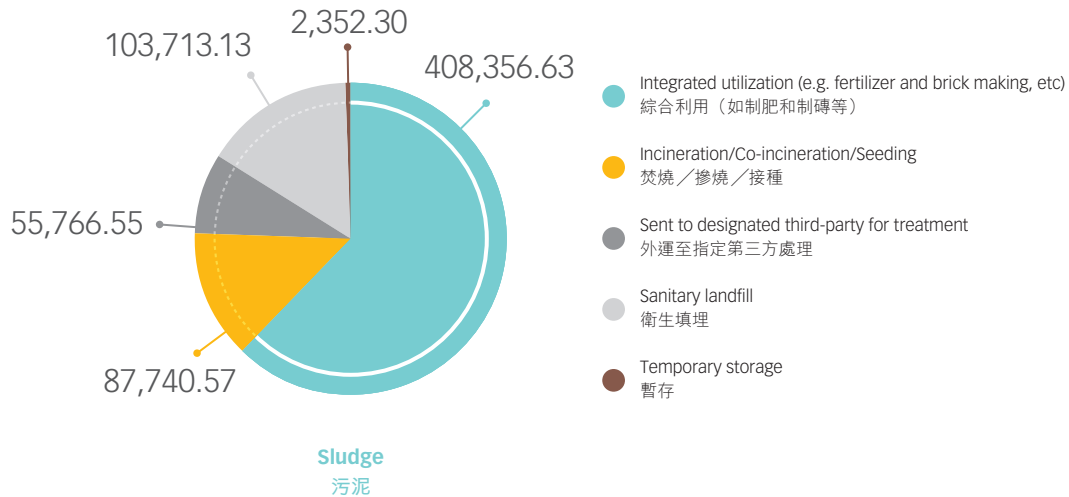
Unit: tonnes 單位：噸

## Environmental Management

### 環境管理

#### Sludge Disposed from Waste Water Treatment Projects by Disposal Methods in 2016

二零一六年污水項目處理的污泥產生量及處置方式



Proper treatment of the sludge generated from our operating waste water treatment projects is a key waste management segment of Environmental Water segment. We treat our sludge in accordance with International Finance Corporation's ("IFC"), "General Environmental, Health and Safety Guidelines" and "Environmental, Health, and Safety Guidelines for Water and Sanitation" and other applicable regulations and standards. In 2016, over 70% of the sludge was recycled. For the sludge disposed by landfills, in order to alleviate the environmental impact, on-site dehydration is performed to reduce water content and volume, so that the burden towards landfill sites is reduced.

China is a signatory country of the "Basel Convention" and, as a responsible company, CEIL is committed to transporting and treating hazardous waste in an efficient and environmentally friendly manner. In 2016, we did not import or export any hazardous waste from/to foreign countries.

妥善處理污水處理項目運營中產生的污泥是環保水務板塊廢物管理上的重點。我們根據國際金融公司（「IFC」）的「通用環境、健康和安全管理指南」、「水與衛生環境、健康和安全管理指南」及其他適用法規和標準的規定處理污泥。二零一六年，超過70%的污泥被循環再用。至於最終需作填埋處理的污泥，我們會事先進行脫水處理，以減少其含水量和體積，從而減輕堆填區的負擔，舒緩對環境的影響。

為分擔我國作為《巴塞爾公約》締約國的責任，本公司堅持以高效環保的方式運輸及處理各類危險廢物。我們於二零一六年沒有從國外輸入或向其輸出任何危險廢物。

#### Statistic of Weight of Hazardous Waste in 2016

#### 二零一六年危險廢物重量統計

Hazardous waste transported 運輸的危險廢物	Hazardous waste treated 經處理的危險廢物
98,552.17	97,941.12

Unit: tonnes 單位：噸

## Waste Treated by Hazardous Waste Treatment Projects by Treatment Methods in 2016

二零一六年危廢處理項目的處置方式

		Incineration 焚燒	Temporary Storage 暫時存放	Sanitary Landfill 衛生填埋	Total 總計
Hazardous Waste	危險廢物	8,722.76	2,233.46	21,564.67	32,520.89
Solid Waste	固體廢物	–	596.58	67,639.93	68,236.51

Unit: tonnes 單位：噸

## Materials and Resources Usage

CEIL has made ceaseless effort to keep detailed data and records of material and resource consumption of each project and we believe that the records enable us to set the Company's long-term resource utilization strategies to further reduce our material and resource consumption in our operations. In 2016, we continued to implement practices within our project companies such as environmental initiative competitions, setting targets on material consumptions, etc., to fully promote environmental friendly operations. The primary material used by our Greentech business segment is biomass which is regarded as a renewable material, with an annual consumption of 728,000 tonnes. The percentage of recycled materials for Greentech operations was 99.52%.

According to the definition from "GRI Standards", the household waste used in CEIL's production process are also defined as renewable materials. Hence, the percentage of recycled materials for Environmental Energy operations was 90.09%.

## 物料及資源利用

光大國際堅持對各個項目的物料和資源使用作系統性及詳盡的記錄，我們深信這些紀錄有助本公司制定長遠的資源利用策略，以減少整體的物料和能源消耗。二零一六年，我們繼續透過在各項目公司開展節能增效比賽、設立物資消耗目標等措施，全面推動環保運營。綠色環保板塊的主要物料使用為生物質，屬可再生物料，年度消耗量為728,000噸。綠色環保在運營中使用的可再生物料佔99.52%。

根據「GRI標準」之定義，光大國際在生產過程中所使用的生活垃圾被視為再生物料。因此，環保能源在運營中使用的可再生物料佔90.09%。

## Environmental Management

### 環境管理

#### Material Consumption of Environmental Energy in 2016 2016年環保能源的主要物料使用量

Materials used	使用的物料	2016 Consumption 2016年的使用量
<b>Renewable materials (Recycled materials)</b>	<b>可再生物料 (循環再用物料)</b>	
Household waste treated	處理生活垃圾	7,345,976.68
<b>Non-renewable materials</b>	<b>非再生物料</b>	
<i>Material consumption during production process</i>	<i>於生產過程中的主要物料耗用量</i>	
Activated carbon	活性碳	2,838.28
Calcium hydroxide	氫氧化鈣	90,039.09
Acid	酸	362.40
Ammonia water	氨水	23,537.56
Fuel oil	燃油	704.53
Deminerlized water	除鹽水	678,200.25
Cement	水泥	10,037.18
<i>Material consumption for leachate treatment</i>	<i>滲濾液處理的物料耗用量</i>	
Hydrochloric acid	鹽酸	1,945.88
Scale inhibitor	阻垢劑	34.11
Sodium hypochlorite	次氯酸鈉	39.03
Cationic polyacrylamide (CPAM)	陽離子聚丙烯酰胺	75.57
Sodium hydroxide	氫氧化鈉	41.86
Citric acid	檸檬酸	3.93
Total	總計	8,153,836.37
Percentage of recycled materials (%)*	循環再用物料佔用比例(%)*	90.09

Unit: tonnes 單位：噸

#### Material Consumption of Environmental Water in 2016 2016年環保水務的主要物料使用量

Materials used	使用的物料	2016 Consumption 2016年的使用量
<b>Non-renewable materials</b>	<b>非再生物料</b>	
Polymerization ferric chloride (PFC)	聚合氯化鐵	3,682.38
Sodium hypochlorite	次氯酸鈉	7,720.94
Organic flocculant	有機絮凝劑	803.47
Inorganic flocculant	無機絮凝劑	37,485.11
Ferric chloride	三氯化鐵	21,783.77
Lime	石灰	4,354.53
Total	總計	75,820.20

Unit: tonnes 單位：噸

#### Energy Consumption Statistics of Operating Projects in 2016\* 2016年各營運項目的耗能統計\*

Types of operation 運營類型	Non-renewable energy consumption 非再生電力消耗	Renewable energy consumption 可再生電力消耗	Fuel oil <sup>a</sup> 燃油 <sup>a</sup>	Natural gas <sup>b</sup> 天然氣 <sup>b</sup>	Total 總計
Environmental Energy 環保能源	18,266	1,246,716.98	28,315.26	86,519.33	1,379,817.56
Environmental Water 環保水務	1,245,756.41	-	-	-	1,245,756.41
Greentech 綠色環保	26,038.87	193,465.64	16,248.42	-	235,752.93

Unit: GJ 單位：吉焦

- \* : CEIL's core products and services will not cause additional energy consumption to clients
- a : Assume the energy content of fuel oil to be 40.19 GJ per tonne and 0.144 GJ per US gallon
- b : Assume the energy content of natural gas to be 39.01 GJ per 1,000 m<sup>3</sup>

We continue to try our best to conserve and recycle water resources to ensure that the recycled general industrial and domestic waste water can meet the "Reuse of Urban Recycling Water – Water Quality Standard for Industrial Uses" (GB/T19923-2005) and the "Reuse of Urban Recycling Water – Water Quality Standard for Landscape Uses" (GB/T 18921-2002) or other water reuse standards. Our site selection complies with stringent environmental impact assessment requirements, which prevent the water bodies and ecological sites nearby the project site from adverse effect.

In 2016, we used 16,996,112.40m<sup>3</sup> of treated waste water, accounting for over 73% of the total water consumption.

#### Total Water Consumed, Withdrawn and Recycled by Types of Operation in 2016 (m<sup>3</sup>)

Type of operation 運營類型	Water consumption for production (including billed water and recycled water) 用於生產的耗水量 (包括收費用水及循環水)	Water withdrawn from municipal water supplies or other water utilities 取自市政供水或其他水務設施的水量	Water withdrawn from river 取自河流的水量	Water withdrawn from groundwater 取自地下水的水量	Total volume of recycled and reused water 循環及再用水總用量	Percentage of recycled and reused water in total water consumption 循環及再用水佔總用水量的百分比 (%)
Environmental Energy 環保能源	13,165,607.00	11,690,066.00	-	-	9,888,980.00	75.11
Environmental Water 環保水務	8,017,453.62	1,957,184.19	-	-	6,060,269.43	75.59
Greentech 綠色環保	2,006,199.97	825,472.00	133,096.00	768.00	1,046,862.97	52.18

Unit: m<sup>3</sup> 單位：立方米

#### Total Production Water Discharged by Destinations in 2016

Types of operation 運營類型	Sewage pipelines 污水管網	Greening 綠化	River/Ocean 河流/海洋	Total 總計
Environmental Energy 環保能源	421,629	69,894	151,477	643,000
Greentech 綠色環保	98,383	2,160	-	100,543

Unit: m<sup>3</sup> 單位：立方米

- \* : 光大國際的核心業務的產品及服務不會對客戶造成額外的能耗
- a : 假設每噸燃油含40.19吉焦能源；每北美加侖燃油含0.144吉焦能源
- b : 假設每千立方米天然氣含39.01吉焦能源

我們持續竭力節約和循環利用水資源，並遵照「城市污水再生利用工業用水水質」(GB/T19923-2005)以及「城市污水再生利用景觀環境用水水質」(GB/T18921-2002)或其他水循環標準將一般工業及生活污水循環再用。我們的項目選址均符合嚴格的環評準則，絕對不會對項目周邊的水體和動物棲息地帶來顯著影響。

二零一六年，我們於運營中使用了16,996,112.40立方米經處理的污水，佔總用水量超過73%。

#### 二零一六年按運營類型劃分的總耗水量，取水量及循環水量（立方米）

#### 二零一六年按排放目的地劃分的生產過程的排水量



# 6.

## Our People 我們的員工

### People-Oriented

以人為本



## Our People 我們的員工

In the development process, CEIL has always adhered to and continue to deepen the “people-oriented” development strategy, which is the core factor of the Company’s rapid development since the transformation to environmental protection business. We regard our employees as the first productive force, organically integrating staff self-valuation and the development process of the Company, which gradually lead to a talent development concept with our own characteristics. Establishing appropriate talent strategies to ensure our employees thrive in a decent working environment as well as in fair and challenging opportunities is not only the Company’s top priority in the new round of development, but also strongly demonstrates the Company’s emphasis on assuming corporate responsibility.

光大國際在發展過程中始終堅持並不斷深化「以人為本」的發展策略，這是本公司自轉型環保業務以來取得長足發展的核心因素。我們將人才視作第一生產力，務求把員工的自我價值和企業的發展進程有機地結合，逐漸形成了具自身特色的人才發展理念。建立適宜的人才戰略，確保員工在良好的工作環境和公平、具挑戰性的機會中茁壯成長，不但是本公司新一輪發展的重中之重，更是本公司重視承擔企業責任的有力體現。

### Employee Statistics in 2016<sup>1</sup> 二零一六年員工數據統計<sup>1</sup>



<sup>1</sup> Referring to the employees of operating projects under our operational control during the Reporting Period, not including the contract workers for environmental monitoring, equipment maintenance, cleaning and security services.  
指我們擁有營運控制權並於報告期間運營中的項目的員工，不包括環境監測、設備維修、清潔及保安服務的外判工作人員。

## Our People 我們的員工

### Talent Recruitment and Retention

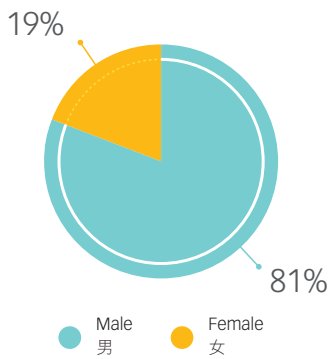
The Company has well-established recruitment strategies, which actively bring in local and foreign technical and management specialists through collaboration with professional recruitment agencies and higher education institutions, as well as other channels such as local, overseas and on-campus recruitments. We seek 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, factors such as gender, age, and race will not affect the chance of the applicants.

### 廣納賢士

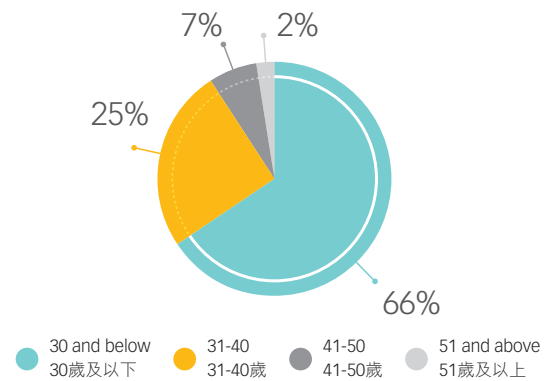
本公司設有完善的招聘策略，透過與專業的人才招聘機構、高等院校合作，以及本地招聘、海外招聘、校園招聘等方式積極引進國內外技術及管理專才。我們務求提供公開而平等的就業機會與平台，在招聘的過程中應徵者的能力和資質始終為最重要的考核要素，絕不因為性別、年齡、種族等其他因素影響應徵者的機會。

#### New Hires Statistics in 2016 二零一六年新員工數據統計

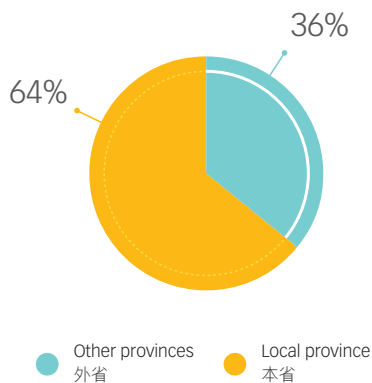
##### By gender 按性別劃分



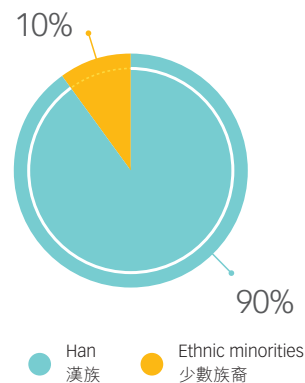
##### By age 按年齡劃分



##### By location 按地區劃分



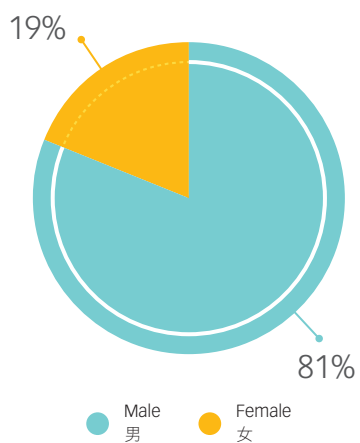
##### By ethnicity 按民族劃分



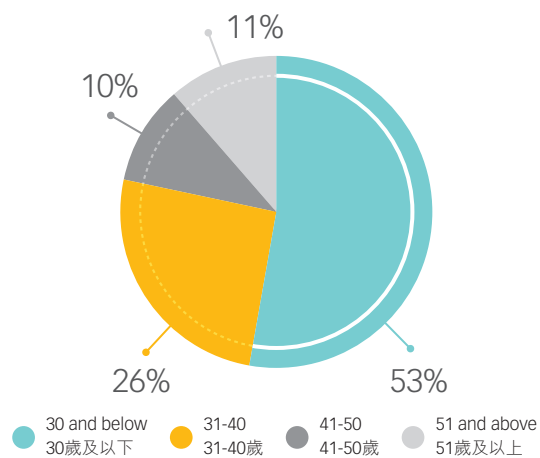
## Employee Turnover Statistics in 2016

二零一六年離職／退休員工統計

By gender  
按性別劃分



By age  
按年齡劃分



## Our People 我們的員工

Our tiered talent development strategy together with a replacement mechanism, “managerial and technical backup talent pool” system as well as the emphasis on the employee appraisal system effectively improve the employees’ quality of work and competitiveness, creating a win-win situation for both the Company and employees. In order to enhance employees’ enthusiasm and upward mobility, the Company further improved the backup talent pool during the Reporting Period, including renewing management and technical staff’s assessment mechanisms and optimizing the team structure of the talent pool, forming five sub-talent pools by profession and category. The Company offers internal competitive selection and promotion opportunities through public announcement in the talent pool, self-application and bottom-up recommendation. During the Reporting Period, there were 19 Deputy General Managers promoted to General Managers as well as 16 backup management personnel selected from the talent pool to be promoted to General Managers, Construction Supervisors or Project Preparation Team Leaders of our new projects. All employees underwent formal performance appraisals which provided constructive feedbacks and career management advice.

As a leading player in the green power generation industry, CEIL is conscious of our people’s professional knowledge. The cultivation of a senior technician can take up to seven years, thus the Company monitors the number of employees who will be eligible for retirement in the near future in order to better formulate its human resource strategies while providing appropriate career management plans for our employees, including retirement arrangements for eligible staff. In 2016, the number of staff turnover or retirement accounted for 6.7% of the total workforce.

我們梯隊式和遞補式的人才佈局和「後備管理、技術人才庫」制度，以及對員工考核制度的高度重視，均有效提升員工的工作質素和競爭力，達至企業和員工雙贏。為提升員工的積極性和向上流動性，本公司於報告期間進一步完善後備人才庫，包括更新對管理和技術幹部的考核機制以及優化人才庫隊伍結構，形成了分專業和分類別的五個子人才庫。本公司透過在人才庫中公開發佈、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。於報告期間由副總經理獲晉升為總經理的共有19人，而後備管理人員赴任新項目的總經理、總指揮或籌備組長的數目為16人。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。

作為綠色發電行業的領軍企業，光大國際對員工專業知識的要求甚為嚴謹。培養一位技術骨幹需時可長達7年之久，因而本公司每年均會統計即將合資格退休的員工數目，務求更有效地制定人力資源政策，同時為員工提供包括退休安排的妥當職業生涯管理計劃。在2016年，公司離職或退休的員工數目佔總體約6.7%。

### Percentage of Employees Who Are Eligible for Retirement in 5 and 10 Years (%)

### 5年及10年內合資格退休的員工比率(%)

Employee Category	員工職級	In 5 years 5年內	In 10 years 10年內
Senior management	高級管理人員	0.23	0.32
Middle-level management	中層管理人員	0.32	0.60
General and technical staff	一般及技術員工	2.90	4.80
Total	總計	3.45	5.72

CEIL has always focused on providing employees with diversified growth opportunities and room to give full play to their talent, in order to achieve sustainable career development. Through regular and comprehensive development training, the Company is committed to helping employees develop their potential and even become future leaders. Through the comprehensive training and development system which integrates “all-staff training and priority training, general training and professional training, as well as internal and external training”, we offer courses such as operational skills training, professional training and legal trainings according to the training needs of our employees. In addition, we also proactively provide exchange opportunities with local and foreign industry peers, with an aim to broaden and deepen employees’ professional knowledge and understanding of the industry. The Company has been maintaining close relationship with Tsinghua University and various reputable higher educational institutions, co-organizing training courses to enhance the leadership and management capabilities of our core team, expanding their interpersonal networks at the same time. In 2016, 36 senior management and technical leaders successfully completed the CEO course (5th session) in Tsinghua University.

With the formation of new and established operation regions of the Company, we adopted and implemented talent management schemes which utilize the resources of the established regions to provide support and training to the new regions, in order to maximize our overall human resources and strengthen internal personnel connection and exchange. We formulated flexible and diverse internal support and exchange policy for our talent, which facilitate the development of new regions through the support from the established ones, creating the “learning while doing, doing while learning, helping with supporting” new talent management. The exchange and connectivity not only consolidated regional human resources, but also strengthened the support to our new projects from the existing ones.

For the newly recruited staff, the Company strengthens the link between them and current employees through the annual apprenticeship program and execution trainings, which also help new recruits build a sense of belonging and understand the Company’s corporate culture. We held four execution trainings in 2016 for over 1,100 participants.

In 2016, the average training time per employee exceeded 59 hours, which increased by 7% as compared with the previous year.

光大國際向來著重為員工提供多元的成長和發揮空間，以達到事業的可持續的發展。透過定期及全面的發展培訓，本公司致力幫助員工發展潛質，甚至成為未來領袖。我們透過採用全員培訓與重點培訓相結合、綜合培訓與專業培訓相結合、外出培訓與內部培訓相結合的員工培訓與發展體系，根據員工的培訓需求提供包括運營技能培訓、專業培訓和法律培訓等多元課程，更積極為員工爭取與國內外同行交流的機會，旨在拓寬和深化員工對專業知識和對行業的了解。本公司更一直與清華大學等著名學府保持友好合作關係，聯合舉辦培訓班，提升骨幹隊伍的領導才能和管理能力，拓展人際網絡。二零一六年，共有36名高級管理人員及技術骨幹順利完成了清華大學CEO班（第五期）。

隨著本公司新老區域的形成，為發揮人力資源的整體合力，加強內部人才聯動和交流，本公司採用並實施了老區域對新區域的人才支援、培養和輸送計劃，以老帶新，以老區域帶動新區域的發展，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」的內部人才新局面，通過區域聯動集約了片區內的人力資源，加強了老項目對新項目的支持和支撐。

對新招聘的員工，本公司透過每年的「師帶徒」培訓計劃和執行力拓展培訓加強員工之間的聯系，建立新入職員工的歸屬感，並且讓他們更迅速地了解光大國際的企業文化。我們於二零一六年舉行了四次執行力拓展培訓，參加人數超過1,100人。

二零一六年，我們每名員工的平均培訓時數超過59小時，較上一年度上升7%。

## Our People

### 我們的員工

#### Employee Statistics – Training and Development in 2016 員工主要數據 – 二零一六年培訓與發展

Types of employee 員工類型		Average training hours per person (hours) 人均培訓時數 (小時)	
		2016	2015
Gender 性別	Male 男	56.80	52.79
	Female 女	68.31	61.79
Employee category 員工職級	Senior management 高級管理人員	49.57	35.87
	Middle-level management 中層管理人員	74.22	61.75
	General and technical staff 一般及技術員工	58.27	54.79

### Welfares and Safeguards

To build a sustainable and stable team, the Company places a strong emphasis on improving welfares and safeguards for our employees, as well as compliance with local labor legislations. During the Reporting Period, the Company implemented a new compensation and benefit system to further improve the competitiveness of employee remunerations. Our full time employees are entitled to life insurance, medical care, disability and invalidity coverage, maternity and paternity leaves, and bonuses are regularly awarded. To ensure the physical and mental health of employees, CEIL offers free body checks and occupational disease prevention checkups for employees on an annual basis. Furthermore, we care about the retiring life of employees, on top of the mandatory endowment insurance required by laws, we also developed a supplementary pension system for our employees as an additional retirement benefit.

### 福利及保障

為建立一個可持續和穩定的團隊，本公司對完善員工的福利與保障，以及恪守當地勞工法例尤為重視。報告期間，本公司實施了新的薪酬福利制度，進一步為員工提供具競爭力的報酬。我們的正式員工享有人壽保險、醫療保健、傷殘及疾病保障、產假及男士侍產假等福利，而且定時獲發獎勵花紅。為確保員工的身心健康，光大國際每年均為員工提供免費的身體檢查服務及職業病防範檢查。另外，我們關心員工的退休生活，除了提供法律規定的強制性養老保險之餘，更貼心製訂了員工補充養老制度作為額外的退休福利。

We hope that the Company is not only a career development platform for our employees, but also a place where lasting memories were made. In order to allow employees to enjoy life apart from working and to foster better team work, we offer different kinds of leisure and sports activities, such as sports days, basketball games, photography classes, regular birthday celebration activities and so on during the year to energize the office atmosphere. For projects located in remote areas, we build comfortable and well-equipped dormitories for our employees with multiple recreational facilities, such as badminton courts, gymnasiums, chess and bridge rooms, libraries and so on, to provide a relaxing working environment for our employees and help them achieve work-life balance.

We believe that our employees' opinions can help improve our daily operation management, and we strive to provide them with suitable communication channels and platforms. The Company welcomes our employees to communicate with the CEO directly through the "CEO Mail Box", so as to express their thoughts about the Company. Our grievance mechanisms cover different topics including labor/management relationship, human rights, workplace harassment and discrimination, etc. to provide employees with a platform to raise their grievances, and discuss and express their concerns on corporate governance. On the other hand, we regularly publish two internal publications, namely the "Everbright Environmental Protection Newsletter" and the "Everbright International Monthly Magazine", not only to allow employees to receive updated information and grasp the Company's latest development, but also to serve as a two-way communication channel between the Company and our employees.

### Equal Opportunity and Diversity

CEIL upholds the principles of equal employment opportunity, appreciates and respects diversity within the human resources policy. No discrimination case was reported during the Reporting Period. The Company provides reasonable remunerations, working hours and benefits in compliance with labor legislations. The wages of our employees are determined based on their work experience, job nature, work performance and market condition, with an aim to create fair opportunities for all of our employees. In view of the fact that the labors in energy and engineering industries is potentially male-dominated, the Company pays special attention on gender equality and equal remuneration, striving to ensure that the salary level and structure will not be affected by gender factors.

我們希望公司不但是員工成長打拚的平台，更是他們創造美好回憶的地方。為了讓員工在工作之餘能更好地享受生活，以及培養更緊密的團隊關係，我們舉辦多項文娛休閒及體育活動，例如運動同樂日、籃球友誼比賽、攝影班及定期生日慶祝活動等，為本公司氣氛注入活力。在位置比較偏遠的項目，本公司為員工建立舒適而設有完善配套的宿舍，當中的休閒設施包括羽毛球場、健身房、棋牌室及圖書館等，讓員工適時放鬆，實踐工作與生活的平衡。

我們相信員工的意見有助我們完善日常的營運管理，並致力為他們提供表達的合適渠道和平台。本公司歡迎員工透過「行政總裁電子郵箱」與行政總裁直接進行溝通，以表達對本公司的想法。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公司管治的關注。另一方面，我們定期出版「光大環保報」和「光大國際月刊」兩本內部刊物，該刊物讓員工更快更新資訊和掌握本公司動向之餘，更成為了貫通本公司與員工雙向溝通的橋樑。

### 平等機會與多元共融

光大國際擁護平等就業的理念，在人力資源政策上欣賞以及尊重多元文化，而我們於報告期間並沒有相關的歧視個案。本公司按照勞工法例為員工提供合理的工資、工時及待遇，並根據他們的工作經驗、工作性質、工作表現以及市場情況相應計算釐定薪酬，積極締造平等就業機會。有鑑於從事關於能源和工程行業的人力資源分佈傾向於側重於男性，本公司特別關注性別平等與薪酬待遇等議題，務求讓薪酬水平及結構不受性別因素影響。



## Our People

### 我們的員工

#### Employee Key Statistics 2016 – Ratio of Remuneration between Female and Male Employees by Employee Category

二零一六年員工主要數據 – 各員工職級內女員工與男員工的平均薪酬比例

Employee Category	員工職級	Ratio 比例
Senior management	高級管理人員	1.08
Middle-level management	中層管理人員	0.90
General and technical staff	一般及技術員工	0.87

The Company is committed to complying with laws and regulations on the protection of rights and interests of different genders, and safeguarding the rights of vulnerable groups. We offer sufficient maternity leave to pregnant employees as well as paternity leave to male employees. We retain job positions for employees on maternity/paternity leave in order to encourage them to return, and we ensure career development and remuneration remains unaffected by the parental leave.

公司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，鼓勵他們結束後再次投入公司，並保證其職業發展和薪酬不因此而受影響。

#### Employee Key Statistics 2016 – Maternity/Paternity Leave

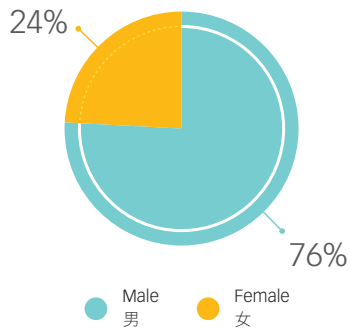
二零一六年員工主要數據 – 產假／待產假

Indicators 指標	Gender 性別	2016
Number of female and male employees who took maternity/paternity leave 放產假／待產假的男女員工數目	Male 男	147
	Female 女	65
Total number of employees who returned to work after maternity/ paternity leave ended 產假／待產假結束後重返工作崗位的員工總數	Male 男	145
	Female 女	64
Total number of employees who returned to work after maternity/paternity leave ended that were still employed 12 months after their return to work 產假／待產假結束後重返工作崗位並於12個月後仍在職的員工總數	Male 男	145
	Female 女	64
Return to work rate of employees who returned to work after maternity/paternity leave ended (%) 產假／待產假結束後重返工作崗位的員工比率(%)	Male 男	98.64
	Female 女	98.46
Retention rate of employees who returned to work after maternity/paternity leave ended (%) that were still employed 12 months after return to work 產假／待產假結束後重返工作崗位並於12個月後仍在職的員工保留率(%)	Male 男	100
	Female 女	100

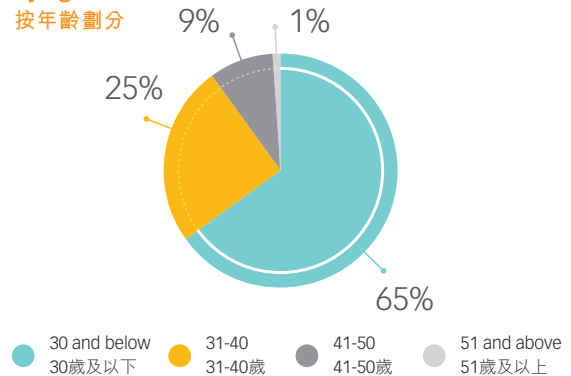
## Statistics on Diversity of Employees – Overall in 2016

二零一六年員工多元化統計－整體

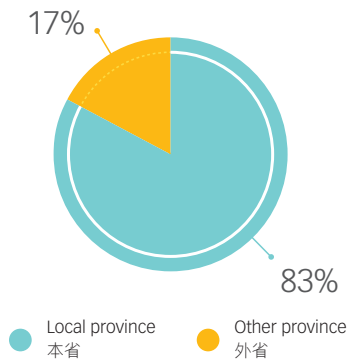
### By gender 按性別劃分



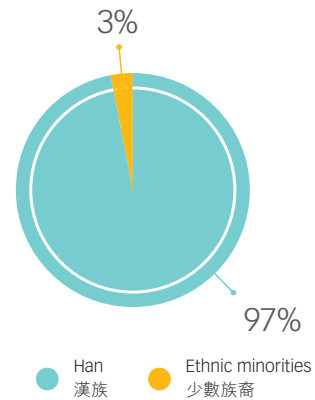
### By age 按年齡劃分



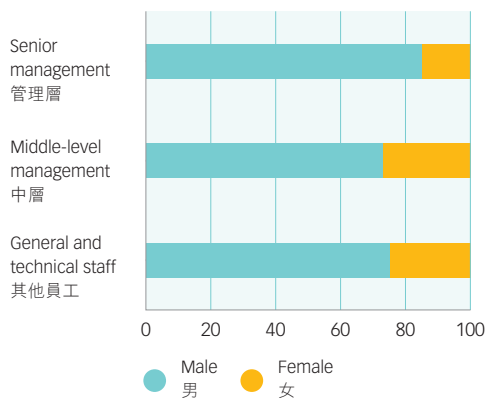
### By location 按地區劃分



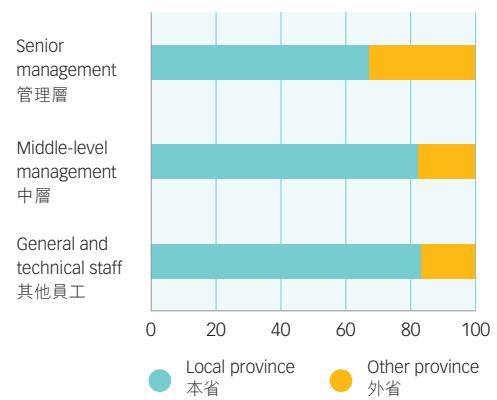
### By ethnicity 按民族劃分



### Diversity of Employees – Male to Female Ratios by Employee Category 員工多元化統計 – 各員工職級的男女比例



### Diversity of Employees – Employees Hired by Locations 員工多元化統計 – 按地區劃分的受僱員工



## Our People

### 我們的員工

CEIL enforces zero tolerance towards child labor and forced labor and strictly follows major human rights declarations and applicable labor laws during labor practices. We take a step further to establish a supplier assessment system to identify whether such inappropriate labor practice occurs in our suppliers, so the concept of fair labor is extended throughout the whole value chain. During the Reporting Period, we did not identify any issue with child labor and forced or compulsory labor within our project companies and suppliers.

## Health & Safety

CEIL upholds the principle that ensuring occupational health and safety is not only a core element of our corporate culture, but also our solemn commitment to every employee. In order to provide a no-harm-to-people and accident-free working environment, prevent occupational diseases and minimize work-related health issues, we have formally launched and implemented the ESHS Management System during 2016, where all project companies set up standardized operating procedures and checklists for on-site work, which will more effectively align and strengthen system requirements and operational practices, which is an important milestone of CEIL in promoting health and safety. Furthermore, it is also required in our safety management system to incorporate occupational health and safety considerations into suppliers' contracts, which effectively extends the safety culture and policies into our supply chain.

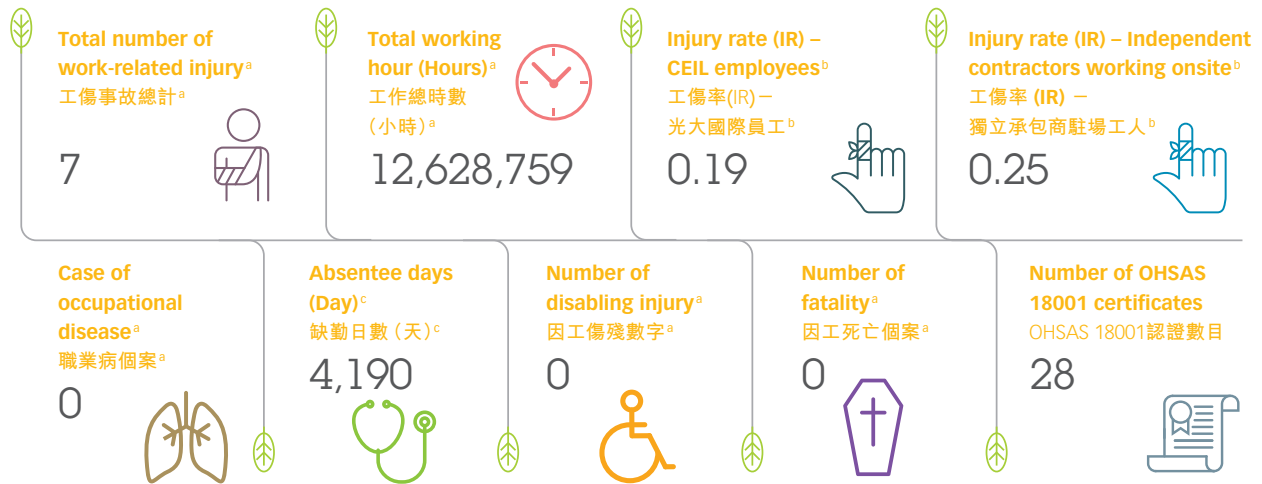
光大國際對於童工及強迫勞動採取零容忍的態度，同時嚴格按照主要人權宣言及勞動法規的要求用工。我們更走多一步通過供應商評估系統識別其是否存在相關之用工不當行為，把公平的勞工理念延伸至整條供應鏈。報告期間，我們並未發現任何項目公司和供應商存在使用童工或強迫或強制勞動事件之風險。

## 健康與安全

確保職業健康與安全不僅是我們企業文化的核心之一，亦是我們對每位員工的莊嚴承諾。為了給員工提供無傷害及無事故的工作環境、防治職業病及關注與工作有關的健康問題，我們在二零一六年正式開展和實施了ESHS管理體系，各項目公司均建立了標準操作流程和現場工作檢查表，以此完善制度要求和運營實踐的有效結合，是光大國際促進健康與安全的重要里程碑。此外，我們的安全管理體系要求把職業健康和 safety 考慮納入供應商合約中，有效地將安全文化和政策延伸到我們的供應鏈中。

## Key Health and Safety Statistics in 2016

## 二零一六年主要職業健康與安全數據統計



a Including CEIL employees and independent contractors working onsite, such as cleaning workers and security guards.

b Injury rate (IR) = Total number of work-related injury/Total working hour x 200,000

c CEIL employees only

a 包括光大國際員工和獨立承包商的項目駐場工人，如清潔、保安等工作人員

b 工傷率(IR)=工傷事故總計／工作總時數×200,000

c 僅包括光大國際員工

Specialized contingency plans are established for all project companies of our business segments, with different coverage on potential risks of the respective areas of the plant, safeguarding the safety management of company premises and nearby communities. Besides, safety management committees are formed for all construction projects, while operating projects comprise safety management teams chaired by the respective general managers and executed by the safety and environmental commissioner, with the aim of supervising and managing all health and safety issues arising from different stages of the projects. The team is also responsible for arranging emergency drills and exercises to raise the employees' awareness on safety issues and to enhance their ability to deal with crisis situations. Revisions and improvements are regularly made for the emergency response plans based on actual needs according to the review mechanism. We also actively promote the internationally recognized OHSAS 18001 (GB/T28001-2011) Occupational Health and Safety Management System at our operating project companies to ensure operational safety.

本公司各個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，為本公司和鄰近社區的安全管理把關。此外，所有建設項目設安全委員會；運營項目設由總經理牽頭、環衛專員執行安全管理團隊，旨在監督和管理項目各個階段的健康和安全管理事宜。該團隊更負責籌劃應急演習和演練，務求提高員工對安全問題的日常意識，及應對危機時的處理技巧。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。我們更積極於運營項目公司推行獲國際認證的OHSAS 18001 (GB/T28001-2011) 職業健康和安全管理體系，保障運營安全。

## Our People

### 我們的員工



#### CASE STORY

#### 個案分享

#### Emergency Response for Boiler Tube Exploding Accident at Suzhou Waste-to-energy Project Phase III

#### 蘇州垃圾發電項目三期爐爆管事件應急處理

On 6 September 2016, a boiler tube explosion accident happened at Suzhou Waste-to-energy Project Phase III. The staff on duty remained calm, and the leader on duty called the management for instructions following the contingency procedure. The department head arrived immediately, and provided clear instructions after understanding the situation. All staff completed the contingency measures in an orderly manner under the instruction by the leader on duty such that the accident was prevented from worsening. The systematic emergency response also created favorable conditions for the upcoming leakage inspection performed by the technical specialist and the maintenance department, as well as furnace repair.

2016年9月6日，蘇州垃圾發電項目三期發生爐爆管事件，值班的員工們並沒有方寸大亂。按著應急事故處理程序，值長邊打電話通知相關管理層邊指揮操作。隨後部門負責人迅速趕到，了解情況後作出了指示，全體當班員工在值長指揮下有條不紊完成了各項事故應急處理措施，防止了事故的擴大，並為接下來技術部專工以及檢修部門檢查漏點，恢復鍋爐狀態創造了有利條件。



**CASE  
STORY**  
個案分享

**Fasten the "Safety Belt", Strengthen the Safety Awareness –  
Employee Health and Safety Training cum Fire Safety Sports Day**  
繃緊「安全弦」，強化安全責任心 – 職工安全生產培訓暨消防安全運動會

On 10 November 2016, our Equipment Manufacturing Company organized the 2016 Employee Health and Safety Training cum Fire Safety Sports Day. The purpose of the event was to ensure our safety management value was well delivered to our employees, to improve corporate fire safety, to enhance our employees' awareness on fire safety, which adheres to the principle of fire prevention complemented by fire control measures.

The contents of the event included fire safety seminars, demonstrations and a "Fire Safety Sports Day" activity. Through interactive training and live demonstrations, the employees had deepened their understanding and raised their awareness on fire safety, grasped the techniques and procedures on fire emergency response, and improved their ability to respond to emergency incidents, which ensured safe production and zero incident.

在2016年11月10日，技術裝備公司開展了2016年度公司全體員工安全生產培訓暨消防安全運動會。是次運動會的目的是希望保證公司安全管理理念的貫徹到位，切實加強企業消防安全工作，強化公司員工的消防安全意識，體現「預防為主，消防結合」的消防方針。

此次活動內容包括消防安全知識講座、現場示範、以及一場較量智力與體力的《消防安全運動會》。透過生動有趣的培訓方式，再以現場教學的方式使員工對消防應急常識有了更深入了解和認識，切實樹立起安全意識，掌握了火災事故現場應急疏散、救護及撲救的基本方法，提高了應急事故時自救、互救與抗擊突發事件的應變能力，確保「安全生產零事故」。

We actively promote our safety-first culture through training and special events, for example, new employees are required to participate in the three-level safety training (corporate level, department level and class level) before their commencement of work, and to attend various safety trainings as well as examinations throughout the first year. For other employees, we regularly invite external experts to conduct health and safety training, and organize special seminars, lectures and quiz competitions during the "Safe Production Month" every year to make safety education more engaging. The Company also provides clear instructions for safe operation, offers appropriate tools and personal protective equipment, and conducts regular safety checks.

我們積極透過培訓和特別活動促進光大國際以安全為先的良好文化，例如規定新入職的員工在開始工作前必需接受三級安全教育（公司一級、部門一級、員工所在班一級），並在工作首年持續接受安全培訓和參加考核。對於其他員工，我們定期邀請外部專家舉行健康與安全培訓，並透過在每年的「安全生產月」安排特別的研討會、講座和答問大賽等活動增加員工對安全學習的投入與參與。本公司並制定清晰的安全作業指示，提供適當的工具和個人保護裝備，以及進行定期的安全檢查。

## 7.

## Our Community 我們的社區

## Creating Beautiful Environment and **Giving Back to the Public**

創造美好環境 回饋社會大眾



## Our Community 我們的社區



Caring for our community and taking social responsibility are important part of CEIL's business development, thus we actively plan and sponsor various charitable events in order to give back to our society and grow alongside with them. Through organizing various academic activities in collaboration with environmental protection and technology associations, we provide communication platforms for our stakeholders which not only enhance the Company's transparency, but also allows stakeholders to understand the practice of sustainable development ideas in green energy, emission reduction, waste water treatment and other environmental protection projects. During the Reporting Period, CEIL was awarded with the 2015/16 "Caring Company" logo by the Hong Kong Council of Social Service to recognize our caring for the community, staff and environment, which is an assurance to our long-term commitment in caring for the community development.

### Charitable Events

#### Everbright International Environmental Charitable Foundation

Everbright International Environmental Charitable Foundation Company Limited was established in Hong Kong in August, 2013, and is mainly responsible for the management and coordination of the Everbright International Environmental Charitable Foundation and all sponsored charitable activities, in the areas of environmental protection education, energy saving, ecological conservation, community caring and so forth, aiming to promote and support various charitable events, in order to achieve our important mission of giving back to the society.

關心社區和承擔社會責任是光大國際業務發展的重要一環，故此我們積極籌劃及贊助各項公益活動，務求回饋社會，並與社區共同成長。透過與多個環保和科技協會合作舉辦不同類型的學術活動，我們提供了讓持份者交流的平台，不僅進一步提升本公司的透明度，更讓持份者見證可持續發展理念在綠色能源、減排及污水處理等環保項目的實踐。於報告期間，光大國際獲香港社會服務聯會頒發2015/16「商界展關懷」標誌，以表揚光大國際對社區、員工及環境關懷的責任承擔，是對我們長期在關懷社區發展工作的一份肯定。

### 公益活動

#### 光大國際環保公益基金

光大國際環保公益基金會有限公司於二零一三年八月在香港成立，主要負責管理和協調光大國際環保公益基金及其資助的所有慈善公益活動，範疇涵蓋環保教育、節省能源、生態保育和社區關懷等，旨在促進和支持各項公益活動，達至回饋社會的重要使命。



## Our Community

### 我們的社區

Everbright International Environmental Charitable Foundation fully supported the “Earth Hour” organized by the World Wide Fund for Nature Hong Kong as the lead sponsor in Hong Kong for the third consecutive year in 2016. The theme of the “Earth Hour” 2016 is “lights out for a sustainable future”, which calls for avoiding unnecessary consumption through change of daily habits, so as to save the Earth. The campaign encourages government agencies, companies, organizations, schools, and individuals to turn off unnecessary lighting from 8:30 pm to 9:30 pm on 19 March 2016, symbolizing the determination to protect the Planet. By supporting various community events, we hope to educate the public about the concept of integrating energy conservation and recycling into people's daily life, as well as ways to reduce carbon footprints and tackling climate change.

During the Reporting Period, Everbright International Environmental Charitable Foundation also supported the launch of the Heifer International Hong Kong Branch's “Read to Feed” fundraising program (2016-2017). We hope that the program will encourage Hong Kong children to develop their reading habits, so as to deepen their understanding in poverty and environmental protection issues, expand their horizons, cultivate empathy and concern the Earth's sustainable development as they read more. On the other hand, through donations, we hope to help farmers in rural area in China get rid of poverty and improve quality of life.

### Everbright Environmental Protection Charitable Foundation

In Mainland China, our Everbright Environmental Protection Charitable Foundation helps Suzhou sanitation workers and their families who need financial and psychological support. Since its establishment in 2013, the foundation has donated RMB1.5 million every year to the fund. During the Reporting Period, the donation events of CEIL have step up to a new horizon, engaging surrounding communities from various channels to contribute to the community, demonstrating our responsibility as an environmental protection enterprise. We distributed the sixth and seventh batches of “Everbright Environmental Protection Charitable Fund” to sanitation workers in difficulties, delivering the care and support from the industry and society to those frontline workers. As of the end of 2016, the foundation has supported 688 beneficiaries, with a total of approximately RMB3 million delivered as relief funds and financial aids.

二零一六年是光大國際環保公益基金連續第三年作為香港首席贊助機構全力支持由世界自然基金會香港分會主辦的「地球一小時」活動。二零一六年「地球一小時」的主題是「熄出力量燃續生態未來」，呼籲人們改變生活方式以避免不必要的消費，拯救地球環境。該活動鼓勵政府機構、公司、組織、學校和個人在二零一六年三月十九日晚上八時三十分至九時三十分關掉不必要的照明，象徵對保護地球的決心。通過支持不同的社區活動，我們希望向公眾灌輸將環保節能與循環再用融入日常生活的概念，並教育公眾減低碳足印和應對氣候變化的方法。

光大國際環保公益基金亦於報告期間支持國際小母牛香港分會舉辦的「開卷助人」閱讀籌款計劃（2016-2017年度）。我們希望藉著該計劃，一方面鼓勵香港學童養成閱讀習慣，在閱讀過程中，加深對貧困、環保等問題的了解，拓展視野，培養同理心，關注地球的可持續發展；另一方面通過資金捐助的形式幫助國內山區農戶擺脫貧窮，改善生活質素。

### 光大環保愛心基金

在中國內地，我們的光大環保愛心基金用於幫助需要經濟及心理支援的蘇州環衛工人及其家庭。該基金自二零一三年成立以來，每年向基金會捐贈人民幣150萬元。報告期間，光大愛心捐助活動更走向新常態，從更多方面深入周邊群體，務求為社會做出貢獻，做好環保企業的模範帶頭作用。我們已將第六、第七批「光大環保愛心基金」發放至困難環衛工人手中，令環衛一線的工作者感受到來自行業及社會的關愛和支持。截至二零一六年底，光大環保愛心基金已累計產生688位受益人，共計發放慰問金及救助金約人民幣300萬元。

During the Reporting Period, the Company was again awarded with the Best Social Responsibility Brand in the China Charity Festival, which demonstrates the wide and long-term recognition of our charitable efforts and environmental protection initiatives by the general public.

### Science, Technology, and Environmental Protection Education

In order to strengthen the connection with the community and promote the development of environmental protection technologies, the Company actively co-organized a variety of technical exchange seminars. During the Reporting Period, we co-organized with the Chinese Society for Environmental Sciences the annual meeting themed “Innovating Environmental Science and Technology to Improve the Quality of the Eco-environment”, which attracted more than 1,500 professionals from environmental protection enterprises, research institutes, and higher education institutes from Mainland China. This annual meeting hosted 16 specialized sub-seminars, covering topics in water pollution prevention and ecological protection, cross-strait air quality management and air pollution control technology, and environmental monitoring and informatization, focusing on the technological advance of the corresponding areas. During the Reporting Period, one of our subsidiaries – Everbright Water, supported the IAS Summit Hong Kong – “Inventing Today Imagining Tomorrow for Water Pollution Control”, organized by Hong Kong University of Science and Technology Jockey Club Institute for Advanced Study, which attracted industrial experts around the world to discuss and share ideas in depth on water industry topics such as water pollution prevention and control.

報告期間，本公司再度榮獲中國公益節最佳責任品牌獎，顯示社會大眾對我們的公益活動和環保工作的廣泛和長期認可。

### 科技及環保教育

為加強與社會的聯繫和促進環保科技發展，本公司積極協辦各種技術交流會議。我們於報告期間與中國環境科學學會合辦了主題為「環境科技創新改善生態環境質量」的學術年會，匯集約1,500餘名來自國內環保企業、科研院所、高等院校等單位的相關專業人士。應屆年會設有十六個分會場專題研討會，圍繞水體污染防治與生態保護、兩岸空氣質量管理與大氣污染防治技術、環境監測與信息化等，集中介紹了相應領域的技術進展。報告期間，本公司旗下光大水務全力支持香港科技大學賽馬會高等研究院舉辦的主題為「為水污染控制創造今天及想像明天」的水污染控制高峰會，匯集全球行業專家，就水污染防治等行業話題進行深入探討和交流。



## Our Community 我們的社區

Waste-to-energy technology is an important achievement of the Company and we consistently organize or participate in various technical meetings and seminars to introduce this environmental protection technology to the society. “2016 Waste Incineration Power Generation Business Leaders Symposium” was held in April, inviting various waste incineration power generation business leaders and experts to visit the Nanjing Waste-to-energy Project, and understand the entire waste-to-energy process from the garbage cranes control room, central control room, boiler workshop, flue gas purification workshop, to the steam turbine workshop and other working sites. In addition, The “Waste-to-energy Project Environmental Management Symposium” was held in Hangzhou which invited representatives from the Environmental Engineering Assessment Center and Environmental Impact Assessment Department under the Environmental Protection Bureau to study and understand the construction of the Hangzhou Waste-to-energy Project. The event emphasized CEIL’s mission of environmental and social responsibility, and actively explored creating harmony among environmental protection enterprises and the public, community, and government. The project demonstrated good practice of waste-to-energy implementation, which was highly recognized by industry leaders and relevant news media.

As for biomass power generation projects, we held the “Symposium on Prohibition of Straw Incineration and Integrated Utilization of Straw”, with the hope that the industry will continue to guide and cultivate a “professional, mechanized, and collectivized” straw collection, storage and transportation team, so as to better manage the banning of straw incineration and its integrated utilization through scientific methods, advanced equipment, and professional team, and collaborating to find out the best way of straw utilization, enabling farmers to enjoy the benefits of straw integrated utilization while protecting the environment at the same time. This reflects CEIL’s emphasis on technological innovation and local community development.

As a green industry pioneer, CEIL strives to not only build more environmentally-friendly green projects, but also nurture green lifestyle among the general public. In June, we collaborated with the China Ecological Civilization Research and Promotion Association, the National Mother River Protection Action Leading Group Office, and Beijing Forestry University to jointly organize the “June · Fifth” World Environment Day event, practicing and promoting the concept of ecological conservation through a series of activities, including establishment of the “National June · Fifth World Environment Day Green Action Alliance”, the “Green Dream Collaboration Program” targeting the college students in China, the “Green Youth Poverty Alleviation” green summer camp in 2016, and the first ever cross-provincial youth environmental entrepreneurship competition training course, etc., attracting more than 300 student representatives and youth entrepreneurs from over 20 colleges in Beijing, Tianjin, Hebei, Shanxi and Inner Mongolia.

垃圾發電技術是公司的重要成就，我們亦致力籌劃或參與不同的技術座談會和研討會，向社會各界介紹這項環保科技。在四月舉行的「二零一六垃圾焚燒發電企業負責人座談會」邀請一眾垃圾發電企業的領導和專家參觀考察南京垃圾發電項目，從而了解從垃圾吊控制室、中央控制室、鍋爐車間、煙氣淨化車間及至汽輪機車間等的整個生產現場。此外，在杭州組織召開的「垃圾發電項目環境管理座談會」讓環境保護部環境工程評估中心、環境影響評價司等代表研究和了解杭州垃圾發電項目工程。活動展現出光大國際「左手環保、右手責任」的企業使命，並在環保企業與民眾和諧、社區和諧、政府和諧方面作出了積極探索，同時該項目成功創造了經典案例，受到行業領導及相關新聞媒體的高度認可。

生物質發電項目方面，我們召開了「秸稈禁燒與綜合利用研討會」，盼望行業繼續大力引導培育「專業化、機械化、集團化」的秸稈收儲運隊伍，用科學的方法、先進的設備、專業的隊伍來管理秸稈禁燒與綜合利用工作，集中智慧以尋求破解秸稈利用的最佳方法，讓農民在保護生態的同時分享秸稈綜合利用的紅利，體現了光大國際對科技創新和社區發展的重視。

作為綠色行業領軍企業，光大國際不僅要為社會建設更多更環保的綠色項目，更要為推動生活方式綠色化創造條件，因此我們在六月與中國生態文明研究與促進會、全國保護母親河行動領導小組辦公室和北京林業大學聯合主辦「六·五」世界環境日主題活動，以具體活動踐行和推動生態文明理念的落地，包含成立「全國六·五世界環境日綠色行動聯盟」、實施全國大學生「綠色夢想共創計劃」、開展「綠色扶貧青年行」二零一六大學生暑期綠色長征實踐活動、舉辦首屆京津冀晉蒙青年環保公益創業大賽培訓班等，吸引20多所高校的大學生代表、京津冀晉蒙五省份青年創業團隊代表等300餘人與會。

## Major Science, Technology and Environmental Education Activities in 2016

## 二零一六年主要科技及環保教育活動

Partnering Organization 綠色夥伴	Activity 活動
Chinese Society for Environmental Sciences 中國環境科學學會	Annual Academic Conference of Chinese Society for Environmental Sciences 中國環境科學學會學術年會 Anglo-Chinese Environmental Industry Summit Forum 2016 中英環保產業交流高峰論壇 “New Life for Environmental Protection” The National Environmental Science Creativity Contest 「心環保·新生活」全國環保科普創意大賽活動
China Association of Urban Environmental Sanitation 中國城市環境衛生協會	Professional Committee Development Conference 專業委員會發展大會
China Association of Circular Economy (Electricity Generation Branch) 中國循環經濟協會發電分會	Seminar for Waste Incineration Power Generation Industry 垃圾焚燒行業企業負責人座談會
China Electric Power Promotion Council (Renewable Energy Branch) 中國電力發展促進會可再生能源發電分會	Safety trainings for waste-to-energy projects 垃圾發電項目安全培訓
All-China Environmental Federation 中華環保聯合會	The 12th Environment and Development Forum 第十二屆環境與發展論壇
Chinese Ecological Civilization Research and Promotion Association 中國生態文明研究與促進會	Published “Management Approach on Ecological Civilization for Municipal Solid Waste Industry (Trial)” 發佈《生活垃圾焚燒行業生態文明示範企業管理辦法(試行)》
HKUST Jockey Club Institute for Advanced Study 香港科技大學賽馬會高等研究院	IAS Summit Hong Kong Inventing Today Imagining Tomorrow for Water Pollution Control 香港高等研究院高峰會 – 為水污染控制創造今天及想像明天

## Community Caring and Engagement

## 社區關懷及融合

By participating in charitable events across different areas, CEIL is committed to building an altruistic culture and extend it to our communities. We actively invest resources in education, poverty alleviation, caring for the disadvantaged and community greenery, while encouraging employees to do their share and fulfill social responsibilities.

透過參與不同範疇的慈善活動，光大國際致力於企業內部建立樂善好施的氣氛，並延展至社區。不論在教育、扶貧、關懷弱勢群體以及社區綠化方面，我們均積極投放資源，並鼓勵員工身體力行，履行社會責任。

## Site Visit

It is very important to extend the spirit of environmental protection industry to the community, as well as promoting the concept of ecological conservation in the society, so we actively utilize existing resources for environmental protection promotion and education, regularly inviting different organizations to visit our environmental protection projects every year. The Company also sets the first weekend of each month as Open Day of its operating waste-to-energy projects, joining hands with the public to create environmental and ecological conservation. In 2016, we received over 69,500 people from home and abroad.

## “Daily Donation for Care” Activity

Our employees’ initiative and commitment to charity events affirms CEIL’s achievements in community caring. This is the twelfth year of Ji’nan Waste Water Treatment Project’s “Daily Donation for Care” activity. All the staff gathered at the project company’s main building to put one day of their income into the donation box. In less than 20 minutes, the amount of donations has reached RMB13,750, fully demonstrating the caring spirit of our staff.

## 參觀活動

讓環保行業的意義延展至社區，以及在社會上推動生態文明理念甚為重要，因此我們積極利用現有資源進行環保宣傳教育，每年定期邀請不同單位參觀旗下的環保項目。本公司更將每月第一個週末設為運營垃圾發電項目的公眾開放日，敞開大門，與公眾攜手共創環境生態文明，二零一六年共接待國內外參觀考察者超過69,500人。

## 「慈心一日捐」活動

員工對慈善活動的主動和投入印證了光大國際在社區關懷方面的成果。今年是濟南污水處理項目踏入支持「慈心一日捐」活動的第十二個年頭，全體員工匯集項目公司綜合樓捐獻愛心，在捐款箱裡投入自己一日收入。在短短十多分鐘內，善款數目已達13,750元，充分表現出員工的為善精神。

CASE  
STORY  
個案分享Everbright International True Love School  
光大國際愛心學校

“Everbright International True Love School” provide education opportunities for 1,500 students who live in remote areas at Dangshan, and we organize staff volunteer teacher programme every year to deliver our care. In 2016, we continued to send outstanding staff to Dangshan to support the students and provide art and physical education. Our staff successfully completed the teaching tasks and forged a deep friendship with the teachers and students. We also offer the Everbright International Caring Scholarship during the Reporting Period to support hardworking and outstanding students whose families are in difficult circumstances. As of the end of 2016, the caring scholarship has supported more than 200 students with outstanding academic performance. In addition, we organized the “Everbright International True Love School Summer Camp”, where we invited student and teacher representatives to visit our waste-to-energy project in Nanjing, Jiangsu Province, so that they could understand the main process of waste-to-energy techniques and the importance of environmental protection.

我們在位於礪山的「光大國際愛心學校」為1,500名偏遠學生提供教育機會，並於每年組織員工支教活動，將愛心持續傳遞。二零一六年，我們繼續選派優秀員工赴礪山擔任愛心支教，提供美術和體育教學工作，並圓滿完成了教學任務，與學校師生結下深厚情誼。我們亦於報告期間發放光大國際愛心助學基金，以支持家庭條件艱苦、但努力學習並成績優秀的學生，為他們的求學之路提供支持。截至二零一六年年底，愛心助學基金已資助了超過200位學習成績優秀的貧困學生。此外，我們亦於報告期間組織了「光大國際愛心學校暑期夏令營」活動，邀請學校學生及老師代表參觀了我們於江蘇南京的垃圾發電項目，令他們直觀了解垃圾發電的主要生產工藝，認識環保的重要性。

### “Hand in Hand Caring Action” Activity

We also responded positively to the “Hand in Hand Caring Action” initiative launched by Ji’nan City’s Caring for Future Generations Working Committee, Ji’nan Charity Federation, and Ji’nan City Volunteers Association. Employees initiated the donation to provide materials for middle school and primary school students who suffer from poverty in Zhangqiu City. The local employees also inquired their family situations to understand specific difficulties in order to develop a more effective poverty alleviation program. This enables us to deliver practical help and achieve the Company’s dedication in caring for the public, while contributing back to our community.

### 2016 Annual Voluntary Tree Planting Activity

Creating a green community is an important goal for CEIL as an environmental protection enterprise, thus the Company took part in the voluntary tree planting activity during the Reporting Period, to build a better work, life, and study environment for the citizens. This voluntary tree planting activity promoted the environmental protection concept of “Devoting the Power of Youth to Create Green Home”, and it further promotes hands-on practice for everyone to protect the environment, and reflects the contemporary youth culture and green scientific development philosophy, allowing everyone to take part in the advocacy of green concept.

### Other Community highlights in 2016

- ☘ Responded positively to voluntary blood donation campaign as encouraged by the government
- ☘ Participated in the “Improve Environmental Quality, Promote Green Development – Environmental Thousand-people Green Walk” activity organized by the Suzhou Environmental Protection Industry Association
- ☘ Organized a “Green Environmental Protection Tour” at the Suzhou Blind and Deaf School, which enhanced the environmental protection awareness of the students and relationship between the company and the surrounding communities
- ☘ Organized “Dream Came True” donation event to support outstanding students suffering from family difficulties to complete their university courses
- ☘ Supported “Hope from Heart” scholarship

### 「牽手關愛行動」活動

我們亦積極響應由濟南市關心下一代工作委員會、濟南慈善總會和濟南市志願者協會共同發起的「牽手關愛行動」。員工自發組織捐款，獻出一片愛心，為章丘市中小學的貧困留守兒童準備了愛心慰問物資。為制定更加詳實有效的幫扶方案，當地員工詳細詢問同學們的家庭情況及了解具體生活困難，務求努力為幫扶對象做實事、辦好事、解難事，大力傳承公司關愛希望、服務群眾、奉獻社會的企業精神。

### 2016年度義務植樹活動

締造綠色社區是光大國際作為環保企業的重要目標，故此本公司於報告期間參加了義務植樹活動，為市民建設優美的工作、生活及學習環境。此次植樹活動宣揚了「揮灑青春力量，營造綠色家園」的環保理念，同時也鍛煉了大家保護環境的實踐能力，更體現了當代青年人文和綠色的科學發展觀思想，為倡導綠色理念貢獻出一份力量。

### 二零一六年其他社區活動亮點

- ☘ 積極響應政府號召，參加無償獻血活動
- ☘ 參加了蘇州市環保產業協會主辦的大型「改善環境質量，推動綠色發展—環保綠色健步千人行」活動
- ☘ 舉辦蘇州市盲聾學校組織「綠色環保之旅」，進一步增強同學們的環保意識，同時增進與周邊社區的聯繫
- ☘ 組織「愛心圓夢」捐助活動，資助家庭困難的優秀學生圓大學夢想
- ☘ 支持「心希望」助學基金

## 8.

## Our Way Forward 展望將來

At present, the Company is in a critical period of stepping up to become a world-class enterprise. With our accelerating globalization progress, we are going to face direct competition in resources, talents, management, technology, products and services worldwide, as well as the challenges and opportunities in the optimization of global resource allocation through the national and international markets. The risks and challenges faced by the Company under these competition and opportunities will become more and more complicated, especially during the overseas competition and cooperation, which imposed higher requirements for our corporate social responsibility and risk control practices. In addition, with the expansion of our business areas and increase of projects, the Company needs to constantly adjust its management structure and establish professional management system, in order to deal with the upcoming upgrades in quality and quantity.

Looking forward, the Company will adhere to the development strategy of "Leading by Talent and Technology, Promoting from a High Starting Point the Expansion from Coastal to Inland Cities, from Cities to Rural Areas, and from Domestic to Overseas Markets", and uphold the social responsibility through the full implementation of the newly established ESHS Management System and Risk Management System. Internally, the two sets of systems will become the foundation of self-enhancement and stable operation, while externally they will be the driving force of the industry's standardization and wholesome development. We will also strictly implement the target accountability system as well as the appraisal and assessment mechanism, strengthening employee training and hence proactively enhance their awareness, so as to build a sustainable corporate culture.

### 2017 Targets

Setting forward-looking goals can build a solid foundation for the sustainable development of the Company, and lead CEIL forward continuously. Based on our achievement of the targets set in the "2015 Sustainability Report", our main objectives for sustainable development in 2017, in view of the Company's significant economic, environmental, and social impacts as well as the concerned issues of our stakeholders, are as follows:

目前，公司正處於向世界一流企業行列躍進的關鍵時期，隨著公司國際化步伐的逐步加快，我們將直接面對全球範圍內的資源、人才、管理、技術、產品和服務的市場競爭，也面臨著利用國內外兩個市場，在全球範圍內優化配置資源的挑戰和機遇。面對競爭和機遇，本公司面臨的風險和挑戰將越來越複雜，特別是「走出去」參與境外競爭與合作，對我們的企業社會責任、風險管控工作提出了更高要求。另外，隨著業務領域的擴展，項目數量的增加，本公司需要通過不斷調整管理架構，建立專業管理體系來順應隨之而來的各類質和量的升級。

展望將來，本公司將堅守「以人才、科技為引領、高起點推進從沿海向內地、從城市向農村、從國內向國外」的發展戰略，透過全面落實新建立的ESHS和風險管理體系，在企業發展壯大的同時切實承擔社會責任。我們將視兩套體系的實施為內部自我學習提升和穩健運營的基礎、外部引領整個行業的規範和健康發展的動力，嚴格實行目標責任制和考核評價機制，抓好培訓並積極提升員工意識，構築企業可持續文化。

### 二零一七年目標

設定具前瞻性的目標能夠為本公司的可持續發展建立穩健的基礎，並引領光大國際繼續前進。在基本達成《二零一五年可持續發展報告》所訂立的年度目標的前提下，根據本公司在經濟、環境和社會方面的重大影響以及持份者的關注事項，我們在二零一七年有關可持續發展的主要目標如下：

#### Sustainable

#### Development Scope Targets in 2017

#### 可持續發展範疇 二零一七年主要目標

Environment  
環境

To maintain the recycling rate of incineration residue of waste-to-energy projects at 100%  
將垃圾發電項目的焚燒殘渣回收率保持在100%

To maintain the sludge recycling rate of waste water treatment projects at a rate not less than the previous year  
將污水處理項目的污泥再利用率保持在不少於去年的數值

## Our Way Forward

## 展望將來

## Sustainable

## Development Scope

## 可持續發展範疇

## Targets in 2017

## 二零一七年主要目標

	<p>To maintain the water recycling rate during the production process at a rate not less than the previous year 將生產過程中的循環用水率保持在不少於去年的水平</p> <p>To expand the disclosure of Scope 3 (other indirect) GHG emissions 擴大範疇3(其他間接)溫室氣體排放數據披露範圍</p> <p>To conduct pilot study to estimate the emission of fine particulate matter (PM2.5) in Environmental Energy projects 進行試點研究,以估計環保能源項目的細顆粒物(PM2.5)排放量</p> <p>To disclose online the hourly average gas emission levels of the operating Environmental Energy projects 按小時均值披露運營中的環保能源項目煙氣在線監測指標值</p> <p>To publish the hourly average gas emissions level of the operating Greentech projects 公佈運營中的綠色環保項目平均每小時的排放水平</p> <p>To assess the sustainability risk of major suppliers 評估主要供應商的可持續性風險</p> <p>To strive to achieve zero non-planned shutdown 爭取實現零非計劃停機事故</p>
Operation 運營	<p>To strive for each project company to obtain the ISO 9001, ISO 14001, and OHSAS 18001 certifications within one year after the completion of construction and commence of operation 爭取每個項目公司在建成投運的報告期間取得ISO9001、ISO14001及OHSAS18001認證</p> <p>To cover all environmental protection projects within the Company in the sustainability report 在可持續發展報告中保持涵蓋公司轄下經營的所有環保項目</p> <p>To strive to solve all valid public complaints 致力解決公眾所有有效投訴</p>
Society 社會	<p>To adopt the "near-missing" reporting system to reduce unsafe practices or behaviors that could lead to accidents 採用「跡近錯失」報告系統,以減少可能導致事故的不安全做法或行為</p> <p>To establish customer satisfaction survey and customer relationship management system 設立客戶滿意度調查和客戶關係管理系統</p> <p>To increase the average number of training hours for each employee by 5% annually 每位員工的平均培訓時數繼續按年增加5%</p> <p>To maintain the injury rate in each plant at a level less than the average rate during the last three years 每間廠房的工傷率維持在低於過去三年的平均水平</p>



## 9.

## Key Awards and Recognition 獎項與殊榮

- ④ Asian Corporate Director Recognition Award – Corporate Governance Asia  
「亞洲最佳董事」－《亞洲企業管治》
- ④ Continued to be a constituent stock for the MSCI China Index, the Hang Seng China-Affiliated Corporations Index and the Hang Seng (Hong Kong-listed) 100 Index  
繼續為MSCI明晟中國指數成份股、恆生香港中資企業指數成份股、恆生中國（香港上市）100指數成份股
- ④ Outstanding Enterprise Award – Capital Weekly  
「傑出上市企業大獎2016」－《資本一週》
- ④ Hong Kong Outstanding Enterprise – Economic Digest  
「香港傑出企業」－《經濟一週》
- ④ First Place in 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」
- ④ China Waste-to-energy PPP Projects – Honourable Investor  
中國垃圾焚燒發電PPP項目優秀投資商
- ④ China Waste-to-energy PPP Projects – Top 10 Investors  
中國垃圾焚燒發電PPP項目十大投資商
- ④ China Waste-to-energy PPP Projects – Best Science Popularization Base  
中國垃圾焚燒發電PPP項目最佳科普教育基地
- ④ Role Model Enterprise of Urban Vein Industrial Park in China  
中國城市靜脈產業園建設典範企業
- ④ Top 10 Green Companies in China  
中國十佳綠色責任企業

MEMBER OF

## Dow Jones Sustainability Indices

In Collaboration with RobecoSAM

- ④ Constituent Member of the Dow Jones Sustainability World Index  
道瓊斯可持續發展全球指數成份股
- ④ Constituent Member of the Dow Jones Sustainability Emerging Markets Index  
道瓊斯可持續發展新興國家指數成份股

- ④ Asia's Outstanding Company on Corporate Governance – Corporate Governance Asia  
「企業管治傑出公司」－《亞洲企業管治》



- ④ China Management Science Society – Overall Award for Management Science (Practice Category)  
中國管理科學學會 – 管理科學實踐類綜合大獎



- ④ WWF – Hong Kong – Corporate Member  
世界自然基金會 – 香港分會 – 企業會員

- ④ Constituent stock of the Hang Seng Corporate Sustainability Benchmark Index for the sixth consecutive year  
連續第六年獲納入恆生可持續發展企業基準指數成份股

- ④ Constituent stock of the Hang Seng Corporate Sustainability Index for the third consecutive year  
連續第三年獲納入恆生可持續發展企業指數成份股



- ④ Asia's Best CEO – Corporate Governance Asia  
「亞洲最佳行政總裁」－《亞洲企業管治》



## 10.

## Verification Statement 核實聲明



香港品質保證局

## VERIFICATION STATEMENT

**Scope of Verification**

Hong Kong Quality Assurance Agency (HKQAA) has been engaged by China Everbright International Limited (CEIL) to undertake an independent verification for its Sustainability Report 2016 (Refer to as "The Report"). The scope of HKQAA's verification covers the data and information associating to CEIL's sustainability performance for the period 1<sup>st</sup> January 2016 to 31<sup>st</sup> December 2016. This is the 5<sup>th</sup> Report that CEIL published to communicate its commitments, efforts and progress of performance towards sustainability.

**Level of Assurance and Methodology**

The process applied in this verification was based on the International Standard on Assurance Engagement 3000 (Revised) – "Assurance Engagement Other Than Audits or Reviews of Historical Financial Information" issued by the International Auditing and Assurance Standards Board (ISAE 3000). Our evidence gathering process was designed to obtain a reasonable level of assurance as set out in ISAE 3000 for the purpose of devising the verification conclusion and the extent of this verification process undertaken was provided for the "Comprehensive Option" of the Global Reporting Initiative's Sustainability Reporting Standards ("GRI Standards"), the Electric Utilities Sector Disclosures, as well as the Environmental, Social and Governance (ESG) Reporting Guide of The Stock Exchange of Hong Kong Limited (SEHK) and ISO 26000 – Guidance on Social Responsibility.

In order to understand the process that CEIL adopted to ascertain the key sustainability issues and impacts, the Report compilation process was discussed including stakeholder engagement and materiality assessment processes. Also, system and process for collecting, collating and reporting sustainability performance data were verified. Our verification procedure performed covered reviewing of relevant documentation, interviewing responsible personnel with accountability for preparing the reporting contents and verifying the 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**

CEIL is responsible for the collection and presentation of the information presented. HKQAA does not involve in calculating, compiling, or in the development of the Report. Our verification activities are independent from CEIL.

**Limitations**

Our scope of work did not include providing conclusions in relation to:

- The materiality, completeness or accuracy of data sets or information relating to areas other than the selected samples, and any site-specific information;
- The appropriateness of definitions for internally developed criteria.

**Conclusion**

On the basis of our verification results and in accordance with the verification procedures undertaken, it is the opinion of the HKQAA's verification team that:

- The Report illustrates CEIL's sustainability performance on the significant aspects in a balance, comparable, clear and timely manner;
- The data and information states in the Report are generally reliable and complete;
- Having cross-checked the information and found a few data with query but CEIL has made immediate clarification. CEIL is suggested to reinforce the data reporting channel and further enhance the effectiveness of the mechanism.

CEIL has been engaging with its stakeholders continuously and being very responsive to the feedbacks gathered from the stakeholder engagement process by improving its disclosure regarding the material issues that are of importance to the company and high level of interest by stakeholders. The Report reflects appropriately CEIL's sustainability context and materiality.

**Signed on behalf of Hong Kong Quality Assurance Agency**

Bryan Peng  
Assistant Director,  
Manufacturing & Service Business Division  
May 2017

## Verification Statement

### 核實聲明



香港品質保證局

#### 核實聲明

##### 核實範圍

香港品質保證局已對中國光大國際有限公司(以下簡稱「光大國際」)的2016可持續發展報告(以下簡稱「報告」)的全部內容進行獨立驗證。核實範圍包括對光大國際在報告期內,即2016年1月1日至12月31日,發表有關可持續發展表現的數據和資料進行核對。這是光大國際第五本可持續發展報告並陳述了2016年經濟、生態環境和社會方面等可持續發展表現。

##### 保證程度和核實方法

核實方法是參照國際審計與鑑證準則理事會所發佈之國際鑑證業務準則 ISAE 3000 (修訂) - 除歷史財務信息審核或複核之外的鑑證業務執行。有關收集核實證據的幅度是參考 ISAE 3000 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,核實的內容是按照全球報告倡議組織(GRI)的《可持續發展報告標準》的「全面方案」及《電力行業披露》和香港聯合交易所有限公司(以下簡稱「聯交所」)的《環境、社會及管治報告指引》編制,同時參考國際標準化組織的社會責任指南 ISO 26000。

核實的程序包括審閱相關之文件、與負責編製報告的代表面談及選取報告內具有代表性的數據和資料進行查核。所選樣本的根本數據及證據已進行審查。

##### 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的數據或參與編撰此報告。香港品質保證局的核實過程是絕對獨立於光大國際。

##### 局限性

驗證範圍不包括提供以下結論:

- 數據的重要性、完整性或準確性或與所選樣本以外的其他有關的信息,以及任何特定於場地的信息;
- 內部標準定義的合適性。

##### 結論

香港品質保證局基於核實的結果總結:

- 報告實質地,具回應性,不偏不倚和平衡地將光大國際的可持續發展表現闡述;
- 報告內的數據和資料可靠和完整;
- 在核實過程中發現有個別數據未能確認,光大國際已迅速處理,建議光大國際加強數據管理和通報機制並確保其有效性。

光大國際不斷積極地與其持份者溝通並採納意見,加強報告的透明度讓持份者清晰了解光大國際在重要可持續發展事宜的情況。此報告能實質地反映光大國際的具體可持續發展範疇和其重要性。

香港品質保證局

彭文俊

製造及服務科助理總監

2017年5月

## 11.

## Key Statistics 主要數據

Economic Performance<sup>a</sup> 經濟表現<sup>a</sup>

		2016	2015	2014
<b>Economic Value Generated</b>	所產生的經濟價值			
Revenue	收益	<b>13,971,204</b>	8,528,393	6,355,120
<b>Economic Value Distributed</b>	所分配的經濟價值			
Operating costs	運營成本	<b>8,661,638</b>	4,459,857	3,270,315
Staff expense	員工開支	<b>893,032</b>	748,202	538,965
Finance costs	融資成本	<b>639,584</b>	451,759	380,775
Dividends	股息	<b>918,957</b>	829,486	493,209
income tax	所得稅	<b>1,062,150</b>	783,275	533,990
Donations	捐款	<b>4,014</b>	2,153	1,470
Economic value retained	所保留的經濟價值	<b>1,791,829</b>	1,259,799	1,136,396

Unit: HK\$ ('000) 單位: 千港元

Operation Performance<sup>b</sup> 運營表現<sup>b</sup>

		2016	2015	2014
<b>Processing/Storage Capacity</b>	處理/儲存規模			
Waste-to-energy (tonne per day)	垃圾發電 (噸/日)	<b>22,300</b>	18,550	14,550
Biomass power generation (tonne per year)	生物質發電 (噸/年)	<b>1,600,000</b>	600,000	600,000
Industrial waste landfill (m <sup>3</sup> )	工業固廢填埋量 (立方米)	<b>470,000</b>	470,000	512,000
Hazardous waste landfill (m <sup>3</sup> ) <sup>c</sup>	危廢填埋 (立方米) <sup>c</sup>	<b>1,244,000</b>	1,244,000	1,240,000
Solar energy (kWh per year)	光伏發電 (千瓦時/年)	<b>35,516,000</b>	35,516,000	35,516,000
Wind power (kWh per year)	風力發電 (千瓦時/年)	<b>230,000,000</b>	230,000,000	N/A
Waste water treatment capacity (m <sup>3</sup> per day)	污水處理規模 (立方米/日)	<b>3,745,000</b>	2,535,000	1,755,000
Reusable water (m <sup>3</sup> per day)	中水 (立方米/日)	<b>61,600</b>	61,600	56,389
<b>Performance</b>	表現			
Electricity generation (GWh)	發電量 (百萬千瓦時)	<b>3,654.25</b>	2,738.30	1,982.53
Waste water treatment volume (m <sup>3</sup> )	污水處理量 (立方米)	<b>1,148,279,000</b>	866,829,000	584,790,000
COD reduction (tonne)	COD減排 (噸)	<b>293,000</b>	292,300	211,000
<b>Average plant availability (%)</b>	平均廠房利用率(%)			
Waste-to-energy projects	垃圾發電項目	<b>94.84</b>	95.42	87.35
Biomass power generation projects	生物質發電項目	<b>95.29</b>	92.67	90.37
Industrial and hazardous solid waste projects	工業固廢及危廢項目	<b>82.74</b>	91.98	N/A
Solar energy projects	光伏發電項目	<b>99.89</b>	99.63	99.88
<b>Certification Accreditation</b>	認證			
Number of ISO 9001 certificates	ISO 9001認證數目	<b>28</b>	22	18

Health & Safety<sup>b</sup> 健康與安全<sup>b</sup>

		2016	2015	2014
Number of fatalities	因工死亡數字	<b>0</b>	0	1
Number of disability injuries	因工傷殘數字	<b>0</b>	0	0
Injury rate (IR) – CEIL employees	工傷率(IR) – 光大國際員工	<b>0.19</b>	0.39	N/A
Injury rate (IR) – independent contractors working onsite	工傷率(IR) – 獨立承包商駐場工人	<b>0.25</b>	0.06	N/A
<b>Certificate Accreditation</b>	認證			
Number of OHSAS 18001 (GB/T28001-2011) certificates	OHSAS 18001(GB/T28001-2011) 認證數目	<b>28</b>	22	18
Energy consumed (GJ)	耗用能源 (吉焦)			

## Key Statistics

## 主要數據

Environment – Overall<sup>b</sup> 環境 – 整體情況<sup>b</sup>

		2016	2015	2014
<b>Energy consumed (GJ)</b> 耗用能源 (吉焦)				
Fuel oil/Natural gas	燃油/天然氣	131,083.00	61,273.76	26,140.88
Electricity (Non-renewable)	電力 (不可再生能源)	1,290,061.28	858,292.28	560,423.29
Electricity (Renewable)	電力 (再生能源)	1,440,182.62	1,371,130.77	914,291.91
Total energy consumed	總耗用能源	2,861,326.90	2,290,696.81	1,500,856.63
Energy Intensity (KJ/kWh) <sup>d</sup>	能源強度 (千焦耳/千瓦時) <sup>d</sup>	867.69	994.73	N/A
<b>Key Air Emissions (Tonne)</b> 主要氣體排放 (噸)				
CO <sub>2</sub> e (Scope 1)	二氧化碳當量 (範疇一)	4,951,653.70	3,772,409.77	As the calculation of GHG emissions adopted CDM methodology for the first time in 2015, only 2015 and 2016 data are provided here. 由於二零一五年度的溫室氣體排放首次採用CDM之計算方法，僅在此提供二零一五及二零一六年的二氧化碳當量數據。
CO <sub>2</sub> e (Scope 2)	二氧化碳當量 (範疇二)	363,387.69	182,922.58	
CO <sub>2</sub> e (Scope 3)	二氧化碳當量 (範疇三)	12,959.39	1,579.64	
GHG Intensity (kg/kWh) <sup>e</sup>	溫室氣體強度 (公斤/千瓦時) <sup>e</sup>	1.62	1.72	
<b>Certificate Accreditation</b> 認證				
Number of ISO 14001 certificates	ISO 14001認證數目	28	22	18

Environment – Environmental Energy and Greentech<sup>b</sup> 環境 – 環保能源與綠色環保<sup>b</sup>

		2016	2015	2014
<b>Key Material used (Tonne)</b> 所用主要物料 (噸)				
Household waste treated	處理生活垃圾	7,345,976.68	6,928,000.00	5,364,583.00
Biomass treated	處理生物質	728,000.00	519,393.00	344,923.04
Quicklime/calcium hydroxide	生石灰/熟石灰	90,039.09	67,513.06	58,161.91
Activated carbon	活性炭	2,838.28	2,034.55	1,613.13
Acid	酸	362.40	291.24	450.92
Ammonia water	氨水	23,537.56	15,321.58	10,559.29
Fuel oil	燃油	704.53	1,010.33	508.57
Demineralized water	除鹽水	678,200.25	407,519.99	369,461.10
Cement	水泥	10,037.18	15,489.63	13,159.77
<b>Key Air Emissions (Tonne)</b> 主要氣體排放 (噸)				
SO <sub>2</sub>	二氧化硫	587.36	408	394.88
NOX	氮氧化物	3,577.46	2,722.22	2,528.64
Particulate Matter	顆粒物	128.13	129.97	111.96
<b>Fly ash/Bottom ash (Tonne)</b> 飛灰/爐渣 (噸)				
Fly ash produced	所產生飛灰	276,072.61	211,784.53	152,590
Bottom ash produced	所產生爐渣	1,826,449.60	1,477,381.62	1,056,643

## Environment – Environmental Water<sup>b</sup> 環境 – 環保水務<sup>b</sup>

		2016	2015	2014
<b>Key Material used (Tonne)</b>	<b>所用主要物料 (噸)</b>			
Flocculants	絮凝劑	<b>38,278.60</b>	27,664.44	17,076.00
PFC	聚合氯化鐵	<b>3,682.38</b>	10,082.80	5,052.81
Hypochlorous acid	次氯酸鈉	<b>7,720.94</b>	3,042.75	2,787.93
Ferric Chloride	三氯化鐵	<b>21,783.77</b>	11,044.87	9,975.41
Lime	石灰	<b>4,354.53</b>	3,145.11	2,354.57
PAC	聚合氧化鋁	<b>5,531.88</b>	–	–
Polyferric Sulfate	聚合硫酸鐵	<b>6,848.59</b>	–	–
Calcium Hypochlorite	次氯酸鈣	<b>1,048.28</b>	–	–
PAFC	聚合氯化鋁鐵	<b>2,333.358</b>	–	–
<b>Sludge Treated (Tonne)</b>	<b>處理的污泥 (噸)</b>			
Sludge treated in total	污泥處理總量	<b>657,929.18</b>	518,685.60	298,808.00
Sludge recycled (%)	循環再用污泥百分比 (%)	<b>70.10</b>	67.43	70.83

- a: The selected financial data reflect the financial performance of CEIL and its subsidiaries from 1 January 2016 to 31 December 2016, data come from audited financial statements.  
所選財務數據反映光大國際連同其附屬公司於2016年1月1日至2016年12月31日內的財務表現。數據來自經審核的財務報表。
- b: For operating projects only.  
僅含已投運項目。
- c: Including all operating hazardous waste and industrial waste landfill projects.  
包括所有已投運的危廢填埋及工業固廢填埋項目。
- d: The calculation method of energy intensity was revised to comply with GRI standards, the current calculation method is: Energy Consumption (KJ)/Per unit electricity sold (kWh).  
計算能源強度的方法按照GRI標準作出修改。現時的計算方法為：能源消耗（千焦耳）／每一度售電量（千瓦時）。
- e: The calculation method of GHG Intensity was revised to comply with GRI standards, the current calculation method is: CO<sub>2</sub>e (kg)/Per unit electricity sold (kWh).  
計算能源強度的方法按照GRI標準作出修改。現時的計算方法為：二氧化碳當量（公斤）／每一度售電量（千瓦時）。

## 12.

## GRI Content Index / GRI 內容索引



Disclosure Number 披露編號	Disclosure 披露	Relevant chapter(s) in Sustainability Report 2016 or other references/explanation 可持續發展報告2016內的有關章節或其他說明	Page number of this Report 本報告頁數	External Assurance 外部核實
<b>GRI 102: General Disclosures 2016 一般披露</b>				
<b>Organizational Profile 機構概況</b>				
102-1	Name of the organization 機構名稱	About this Report 關於本報告	3	✓
102-2	Activities, brands, products, and services 主要品牌、產品和服務	About this Report 關於本報告	3	✓
102-3	Location of headquarters 機構總部的位址	About this Report 關於本報告	3	✓
102-4	Location of operations 機構營運所在地	Our Sustainable Business 我們的環保業務	13	✓
102-5	Ownership and legal form 所有權的性質及法律形式	Our Sustainable Business 我們的環保業務	13	✓
102-6	Markets served 所服務的市場	Our Sustainable Business – Business Segments Overview 我們的環保業務 – 業務板塊概覽	22-37	✓
102-7	Scale of the organization 機構規模	Our Sustainable Business; Annual Report 2016 – Financial Highlights 我們的環保業務; 2016年報 – 財務概況	13	✓
	Information on employees and other workers 僱員概況	Our Sustainable Business 我們的環保業務		
102-8		Projects in operation: 3,478 Projects in preparatory: 254 Projects in construction: 1,213 Headquarters and others: 1,104 運營項目: 3,478人 籌建項目: 254人 在建項目: 1,213人 總部及其他: 1,104人	13	✓
102-9	Supply chain 供應鏈	Our Sustainable Business – Our Supply Chain 我們的環保業務 – 我們的供應鏈	21-22	✓
102-10	Significant changes to the organization and its supply chain 機構或供應鏈發生的重要變化	Our Sustainable Business; Annual Report 2016 – Financial Highlights 我們的環保業務; 2016年報 – 財務概況	19-22	✓
102-11	Precautionary Principle or approach 預警方針及原則	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-12	External initiatives 外界所發起的倡議	Message from CEO; Environmental Management – Air Emissions Management and Climate Change Mitigation 行政總裁致辭: 環境管理 – 管理氣體排放及應對氣候變化	4-7; 51-55	✓
102-13	Membership of associations 機構加入的協會(如行業協會)和國家或國際性倡議組織	Our Community – Science, Technology, and Environmental Protection Education 我們的社區 – 科技及環保教育	81	✓
<b>Electric Utilities Sector Disclosures 電力行業披露</b>				
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	Our Sustainable Business – Business Segments Overview 我們的環保業務 – 業務板塊概覽	23	✓
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	Our Sustainable Business – Business Segments Overview 我們的環保業務 – 業務板塊概覽	23	✓
EU3	Number of residential, industrial, institutional and commercial customer accounts 機構及商業客戶賬戶數目	Our Sustainable Business – Business Segments Overview 我們的環保業務 – 業務板塊概覽	23	✓
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	Our Sustainable Business – Business Segments Overview 我們的環保業務 – 業務板塊概覽	23	✓
EU5	Allocation CO <sub>2</sub> 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. 我們於報告期間沒有參與任何碳排放交易計劃。	–	✓

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<b>Strategy 策略</b>				
102-14	Statement from senior decision-maker 機構最高決策者的聲明	Message from CEO 行政總裁致辭	4-7	✓
102-15	Key impacts, risks, and opportunities 主要影響、風險及機遇	Message from CEO; Our Way Forward 行政總裁致辭：展望將來	4-7, 84-85	✓
<b>Ethics and Integrity 倫理與誠信</b>				
102-16	Values, principles, standards, and norms of behavior 價值觀、原則、標準和行為規範	Our Sustainable Business 我們的環保業務	13-14	✓
102-17	Mechanisms for advice and concerns about ethics 就道德有關的事務尋求建議的機制	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
<b>Governance 管治</b>				
102-18	Governance structure 機構的治理架構	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-19	Delegating authority 授權	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-20	Executive-level responsibility for economic, environmental, and social topics 行政層級的高管對經濟、環境和社會議題的責任	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-21	Consulting stakeholders on economic, environmental, and social topics 與持份者就經濟、環境和社會議題磋商的過程	Stakeholder Engagement 持份者的參與	40-43	✓
102-22	Composition of the highest governance body and its committees 最高治理機構及其委員會的組成	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-23	Chair of the highest governance body 最高治理機構的主席	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-17	✓
102-24	Nominating and selecting the highest governance body 最高治理機構及其委員會的提名和甄選	Annual Report 2016 – Corporate Governance Report 2016年報 – 企業管治報告	-	✓
102-25	Conflicts of interest 利益衝突	Annual Report 2016 – Corporate Governance Report – The Board of Directors 2016年報 – 企業管治報告 – 董事會	-	✓
		Any conflicts of interest will be disclosed in the Board meeting. 任何利益衝突會於董事會會議中披露。		
102-26	Role of highest governance body in setting purpose, values, and strategy 最高治理機構在制定宗旨、價值觀或使命、戰略、政策與目標方面的角色	Our Sustainable Business – Our Corporate Governance; Annual Report 2016 – Corporate Governance Report 我們的環保業務 – 我們的企業管治： 2016年報 – 企業管治報告	16-20	✓
102-27	Collective knowledge of highest governance body 最高治理機構的集體認識	Our Sustainable Business – Our Corporate Governance; Annual Report 2016 – Corporate Governance Report 我們的環保業務 – 我們的企業管治： 2016年報 – 企業管治報告	16-20	✓
102-28	Evaluating the highest governance body's performance 評估最高治理機構的績效	Our Sustainable Business – Our Corporate Governance; Annual Report 2016 – Corporate Governance Report 我們的環保業務 – 我們的企業管治： 2016年報 – 企業管治報告	16-20	✓
102-29	Identifying and managing economic, environmental, and social impacts 識別和管理經濟、環境和社會的影響	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-30	Effectiveness of risk management processes 風險管理流程的效果	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	19-20	✓
102-31	Review of economic, environmental, and social topics 評估經濟、環境和社會的議題	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	16-20	✓
102-32	Highest governance body's role in sustainability reporting 最高治理機構在可持續發展報告的角色	About this Report 關於本報告	3	✓
102-33	Communicating critical concerns 重要關切問題的溝通	Our People – Welfares and Safeguards 我們的員工 – 福利及保障	68-69	✓



## GRI Content Index

## GRI 內容索引

Disclosure Number 披露編號	Disclosure 披露	Relevant chapter(s) in Sustainability Report 2016 or other references/explanation 可持續發展報告2016內的有關章節或其他說明	Page number of this Report 本報告頁數	External Assurance 外部核實
102-34	Nature and total number of critical concerns 重要關切問題的性質和總數	Our People – Welfares and Safeguards; Annual Report 2016 – Corporate Governance Report – Risk Management and Internal Controls 我們的員工 – 福利及保障： 2016年報 – 企業管治報告 – 風險管理及內部監控	68-69	✓
102-35	Remuneration policies 薪酬政策	Annual Report 2016 – Corporate Governance Report – The Board of Directors 2016年報 – 企業管治報告 – 董事會	–	✓
102-36	Process for determining remuneration 決定薪酬的過程	Annual Report 2016 – Corporate Governance Report – The Board of Directors 2016年報 – 企業管治報告 – 董事會	–	✓
102-37	Stakeholders' involvement in remuneration 持份者在決定薪酬中的參與	Annual Report 2016 – Corporate Governance Report – The Board of Directors 2016年報 – 企業管治報告 – 董事會	–	✓
102-38	Annual total compensation ratio 年度總薪酬比率	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	18	✓
102-39	Percentage increase in annual total compensation ratio 年度總薪酬比率增幅的比率	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	18	✓
<b>Stakeholder Engagement 持份者的參與</b>				
102-40	List of stakeholder groups 機構的持份者列表	Stakeholder Engagement 持份者的參與	39	✓
102-41	Collective bargaining agreements 集體談判協議	Collective bargaining agreements are not required by law in Hong Kong 香港沒有集體談判協議的相關法例	–	✓
102-42	Identifying and selecting stakeholders 持份者的識別和選擇	Stakeholder Engagement 持份者的參與	39	✓
102-43	Approach to stakeholder engagement 持份者參與的方法，包括按不同的持份者類型及組別的參與頻率，並指明是否有任何參與是專為編制報告而進行	Stakeholder Engagement – Voices of Stakeholders 持份者的參與 – 持份者心聲	42-43	✓
102-44	Key topics and concerns raised 持份者提出的關鍵議題與關注事項	Stakeholder Engagement – Voices of Stakeholders 持份者的參與 – 持份者心聲	42-43	✓
<b>Reporting Practice 報告實踐</b>				
102-45	Entities included in the consolidated financial statements 機構的合併財務報表或同等文件中包括的所有實體	About this Report; Annual Report 2016 – Notes to the Financial Statements (Page 258-269) 關於本報告；2016年報 – 財務報表附注（第258-269頁）	3	✓
102-46	Defining report content and topic Boundaries 界定報告內容和議題邊界	Stakeholder Engagement – Materiality Assessment 持份者的參與 – 實質性評估	47	✓
102-47	List of material topics 列出在重大議題	Stakeholder Engagement – Materiality Assessment 持份者的參與 – 實質性評估	47	✓
102-48	Restatements of information 重整舊報告所載資訊	The financial statement of 2015 has been restated, please refer to Annual Report 2016 – Financial Highlights (Page 4) 二零一五年的財務報表已重報，請參閱2016年報財務概況（第四頁）	–	✓
102-49	Changes in reporting 所匯報議題及議題邊界的改變	Our Stakeholder Engagement – Materiality Assessment 持份者的參與 – 實質性評估	47	✓
102-50	Reporting period 報告期	About this Report 關於本報告	3	✓
102-51	Date of most recent report 上一份報告的日期	About this Report 關於本報告	3	✓
102-52	Reporting cycle 報告週期	About this Report 關於本報告	3	✓
102-53	Contact point for questions regarding the report 提供可回答報告或內容相關問題的聯絡人	About this Report 關於本報告	3	✓
102-54	Claims of reporting in accordance with the GRI Standards 機構所選擇在全球報告倡議組織的可持續發展報告標準中的「符合」方案	About this Report 關於本報告	3	✓
102-55	GRI content index GRI內容索引	GRI Content Index GRI內容索引	94-101	✓
102-56	External assurance 外部核實報告	About this Report; Verification Statement 關於本報告；核實聲明	3, 87-88	✓

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<b>Material Topics 重大議題</b>				
<b>GRI 200: Economic 經濟</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Annual Report 2016 – Chief Executive Officer’s Report 持份者的參與－實質性評估：2016年報－行政總裁報告	44-47	✓
103-2	The management approach and its components 管理方法及其部分	Our Sustainable Business; Annual Report 2016 – Chief Executive Officer’s Report 我們的環保業務：2016年報－行政總裁報告	14-20	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our Sustainable Business; Annual Report 2016 – Chief Executive Officer’s Report 我們的環保業務：2016年報－行政總裁報告	14-20	✓
<b>GRI 201: Economic 2016 經濟</b>				
201-1	Direct economic value generated and distributed 產生及分配的直接經濟價值	Our Sustainable Business 我們的環保業務	15	✓
201-2	Financial implications and other risks and opportunities due to climate change 由氣候變化導致的財務影響、風險和機遇	Environmental Management – Air Emissions Management and Climate Change Mitigation; Annual Report 2016 – Chief Executive Officer’s Report – Principal Risks and Uncertainties 環境管理－管理氣體排放及應對氣候變化：2016年報－行政總裁報告－主要風險及不確定性	51-55	✓
201-3	Defined benefit plan obligations and other retirement plans 固定福利計劃及其他退休計劃	Our People – Welfares and Safeguards; Annual Report 2016 – Report of the Directors 我們的員工－福利及保障：2016年報－董事會報告	68-69	✓
201-4	Financial assistance received from government 從政府收到的財務補貼的總貨幣價值	Our Sustainable Business; Annual Report 2016 – Notes to Financial Statements 6 我們的環保業務：2016年報－財務報表附註6	14	✓
<b>Market Presence 市場表現</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Annual Report 2016 – Chief Executive Officer’s Report 持份者的參與－實質性評估：2016年報－行政總裁報告	44-47	✓
103-2	The management approach and its components 管理方法及其部分	Our People – Talent Recruitment and Retention; Annual Report 2016 – Chief Executive Officer’s Report 我們的員工－廣納賢士：2016年報－行政總裁報告	64-68	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People – Talent Recruitment and Retention 我們的員工－廣納賢士	64-68	✓
<b>GRI 202: Market Presence 2016 勞工市場表現</b>				
202-1	Ratios of standard entry level wage by gender compared to local minimum wage 在重要營運據點，不同性別的基層人員標準薪資與當地最低薪資的比例	The compensation of majority of our employees is higher than the minimum wage rules. 我們大部份員工的薪酬高於最低工資規則。	-	✓
202-2	Proportion of senior management hired from the local community 在重要營運據點僱用當地居民為高階管理階層的比例	Our People – Equal Opportunity and Diversity 我們的員工－平等機會與多元共融	71	✓
<b>Indirect Economic Impacts 間接經濟影響</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our Sustainable Business 持份者的參與－實質性評估：我們的環保業務	15, 44-47	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management – Materials and Resources Usage; Our People – Talent Recruitment and Retention; Our Community 環境管理－物料及資源利用：我們的員工－廣納賢士：我們的社區	59-61, 64-68, 77-83	✓

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103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management – Materials and Resources Usage; Our People – Talent Recruitment and Retention; Our Community 環境管理 – 物料及資源利用；我們的員工 – 廣納賢士；我們的社區	59-61, 64-68, 77-83	✓
<b>GRI 203: Indirect Economic Impacts 2016 間接經濟影響</b>				
203-1	Infrastructure investments and services supported 基礎設施投資與服務的支持	Our Sustainable Business 我們的環保業務	37	✓
203-2	Significant indirect economic impacts 重大的間接經濟影響	Our Sustainable Business; Environmental Management – Air Emissions Management and Climate Change Mitigation 我們的環保業務；環境管理 – 管理氣體排放及應對氣候變化	15, 51-55	✓
<b>Research and Development 技術研究與開發</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment 持份者的參與 – 實質性評估	44-47	✓
103-2	The management approach and its components 管理方法及其部分	Our Sustainable Business 我們的環保業務	37	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our Sustainable Business 我們的環保業務	37	✓
<b>System Efficiency 系統效能</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Annual Report 2016 – Chief Executive Officer's Report 持份者的參與 – 實質性評估；2016年報 – 行政總裁報告	44-47	✓
103-2	The management approach and its components 管理方法及其部分	Our Sustainable Business; Annual Report 2016 – Chief Executive Officer's Report 我們的環保業務；2016年報 – 行政總裁報告	19-20	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our Sustainable Business; Annual Report 2016 – Chief Executive Officer's Report 我們的環保業務；2016年報 – 行政總裁報告	19-20	✓
<b>Electric Utilities Sector Disclosures 電力行業披露</b>				
EU11	Average generation efficiency of thermal plants by energy source and by regulatory regime 火電廠的平均發電效能	Our Sustainable Business 我們的環保業務	23	✓
EU12	Transmission and distribution losses as a percentage of total energy 輸配電虧損	Due to immediate proximity between our thermal plants and government substations, insignificant transmission loss is expected. 由於我們的發電廠非常接近政府的配電站，輸電所做成的損耗非常輕微。	-	✓
<b>GRI 300: Environmental 環境</b>				
<b>Materials 物料</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Environmental Management 持份者的參與 – 實質性評估；環境管理	44-47, 49-50	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	59-61	✓
103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	59-61	✓

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<b>GRI 301: Materials 2016 物料</b>				
301-1	Materials used by weight or volume 使用物料的總重量或體積	Environmental Management – Materials and Resources Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
301-2	Recycled input materials used 循環再造物料的使用	Environmental Management – Materials and Resources Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
301-3	Reclaimed products and their packaging materials 產品回收與包裝物料	Packaging materials and product recall are not applicable for CEIL's products. 包裝材料及產品回收不適用於光大國際的產品。	-	✓
<b>Energy 能源</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Environmental Management 持份者的參與 – 實質性評估：環境管理	44-47, 49-54	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management – Materials and Resource Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management – Materials and Resource Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
<b>GRI 302: Energy 2016 能源</b>				
302-1	Energy consumption within the organization 機構內部的能源消耗	Environmental Management – Materials and Resource Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
302-2	Energy consumption outside of the organization 機構外部的能源消耗	Environmental Management – Materials and Resource Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
302-3	Energy intensity 能源強度	Key Statistics 主要數據	90	✓
302-4	Reduction of energy consumption 能源消耗的減少	Environmental Management – Materials and Resource Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
302-5	Reductions in energy requirements of products and services 售出的產品和服務所需能源的減少	Environmental Management – Materials and Resource Usage; Key Statistics 環境管理 – 物料及資源利用：主要數據	59-61, 89-91	✓
<b>Water 水</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Environmental Management – Waste Water and Waste Management 持份者的參與 – 實質性評估： 環境管理 – 污水及廢物處理	44-47, 55-56	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management 環境管理	55-61	✓
103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management 環境管理	55-61	✓
<b>GRI 303: Water 2016 水</b>				
303-1	Water withdrawal by source 水資源獲取總量	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	61	✓
303-2	Water sources significantly affected by withdrawal of water 因取水而受到重大影響的水源總數	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	61	✓
303-3	Water recycled and reused 循環及再利用水的總量	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	61	✓

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<b>Emissions 排放</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Environmental Management – Air Emissions Management and Climate Change Mitigation 持份者的參與 – 實質性評估: 環境管理 – 管理氣體排放及應對氣候變化	44-47, 51-55	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	51-55	✓
103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	51-55	✓
<b>GRI 305: Emissions 2016 排放</b>				
				
305-1	Direct (Scope 1) GHG emissions 直接(範疇一)溫室氣體排放總量	Environmental Management – Air Emissions Management and Climate Change Mitigation; Key Statistics 環境管理 – 管理氣體排放及應對氣候變化: 主要數據	54, 90	✓
305-2	Energy indirect (Scope 2) GHG emissions 間接(範疇二)溫室氣體排放總量	Environmental Management – Air Emissions Management and Climate Change Mitigation; Key Statistics 環境管理 – 管理氣體排放及應對氣候變化: 主要數據	54, 90	✓
305-3	Other indirect (Scope 3) GHG emissions 間接(範疇三)溫室氣體排放總量	Environmental Management – Air Emissions Management and Climate Change Mitigation; Key Statistics 環境管理 – 管理氣體排放及應對氣候變化: 主要數據	54, 90	✓
305-4	GHG emissions intensity 溫室氣體排放強度比率	Key Statistics 主要數據	90	✓
305-5	Reduction of GHG emissions 減少的溫室氣體排放量	Environmental Management – Air Emissions Management and Climate Change Mitigation; 環境管理 – 管理氣體排放及應對氣候變化	53	✓
305-6	Emissions of ozone-depleting substances (ODS) 臭氧層破壞物質(ODS)的排放量	We do not produce ozone-depleting substances (ODS) in our operation. 我們沒有於營運中產生臭氧層破壞物質(ODS)。	–	✓
305-7	Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions 氮氧化物、硫氧化物各主要氣體的排放量	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	55	✓
<b>Effluents and Waste 污水和廢物</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Environmental Management – Waste Water and Waste Management 持份者的參與 – 實質性評估: 環境管理 – 污水及廢物處理	44-47, 55-61	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	55-61	✓
103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	55-61	✓
<b>GRI 306: Effluents and Waste 2016 污水和廢物</b>				
				
306-1	Water discharge by quality and destination 排水的水質及目的地	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	61	✓
306-2	Waste by type and disposal method 按類別及處置方法劃分的廢棄物總重量	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	57-58	✓
306-3	Significant spills 嚴重洩露	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	57	✓

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306-4	Transport of hazardous waste 危險廢物的運輸	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	58	✓
306-5	Water bodies affected by water discharges and/or runoff 受污水排放嚴重影響的水體	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	61	✓
<b>Environmental Compliance 環境合規</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Environmental Management 持份者的參與 – 實質性評估：環境管理	44-47, 51-55	✓
103-2	The management approach and its components 管理方法及其部分	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	51-55	✓
103-3	Evaluation of the management approach 管理方法的檢討	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	51-55	✓
<b>GRI 307: Environmental Compliance 2016 環境合規</b>				
307-1	Non-compliance with environmental laws and regulations 違反環境法律和法規	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	56	✓
		In 2017, there was one case which one of Everbright Water's associates commenced legal proceedings to challenge the decisions of environmental fines issued in 2016 光大水務之一家聯營公司於二零一七年有一宗有關二零一六年收到的環保處罰決定的案件進入司法程序。		
<b>GRI 400: Social 社會</b>				
<b>Employment 僱傭</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our People 持份者的參與 – 實質性評估：我們的員工	44-47, 63-68	✓
103-2	The management approach and its components 管理方法及其部分	Our People 我們的員工	63-68	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People 我們的員工	63-68	✓
<b>GRI 401: Employment 2016 僱傭</b>				
401-1	New employee hires and employee turnover 新進員工總數及比例	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	64	✓
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees 不提供給臨時或兼職員工，只提供給全職員工的標準福利	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	68	✓
401-3	Parental leave 產假/陪產假	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	70	✓
<b>Electric Utilities Sector Disclosures 電力行業披露</b>				
EU15	Percentage of employees eligible to retire in the next 5 and 10 years broken down 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	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	66	✓

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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	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	73	✓
EU18	Percentage of contractor and subcontractor employees that have undergone relevant health and safety training 接受相關健康與安全培訓的承包商及分包商僱員的比例	Our People – Welfares and Safeguards 我們的員工 – 福利及保障	72-73	✓
<b>Labor/Management Relations 勞資關係</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our People 持份者的參與 – 實質性評估：我們的員工	44-47, 63-72	✓
103-2	The management approach and its components 管理方法及其部分	Our People – Welfares and Safeguards 我們的員工 – 福利及保障	68-69	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People – Welfares and Safeguards 我們的員工 – 福利及保障	68-69	✓
<b>GRI 402: Labor/Management Relations 2016 勞資關係</b>				
402-1	Minimum notice periods regarding operational changes 運營變化的通知期	Our People – Welfares and Safeguards 我們的員工 – 福利及保障	68-69	✓
<b>Occupational Health and Safety 職業健康與安全</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our People – Health & Safety 持份者的參與 – 實質性評估： 我們的員工 – 健康與安全	44-47, 72-74	✓
103-2	The management approach and its components 管理方法及其部分	Our People – Health & Safety 我們的員工 – 健康與安全	72-74	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People – Health & Safety 我們的員工 – 健康與安全	72-74	✓
<b>GRI 403: Occupational Health and Safety 2016 職業健康與安全</b>				
403-1	Workers representation in formal joint management – worker health and safety committees 正式勞資健康與安全委員會的勞工代表	Our People – Health & Safety 我們的員工 – 健康與安全	72-73	✓
403-2	Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities 工傷類別、工傷頻率、職業病、損失日數比例及缺勤率，以及因公死亡事故總數	Our People – Health & Safety 我們的員工 – 健康與安全	72-73	✓
403-3	Workers with high incidence or high risk of diseases related to their occupation 從事某些具有職業病高發風險或高職業病風險的職業活動的工人	Our employees are not exposed to jobs with high risks of occupational diseases. 我們的員工不涉及高職業病風險的工作。	-	✓
403-4	Health and safety topics covered in formal agreements with trade unions 與工會達成的正式協議（當地或全球性的）中的健康與安全條款	Our People – Health & Safety 我們的員工 – 健康與安全	72-73	✓

Disclosure Number 披露編號	Disclosure 披露	Relevant chapter(s) in Sustainability Report 2016 or other references/explanation 可持續發展報告2016內的有關章節或其他說明	Page number of this Report 本報告頁數	External Assurance 外部核實
<b>Training and Education 培訓與教育</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our People – Talent Recruitment and Retention 持份者的參與 – 實質性評估；我們的員工 – 廣納賢士	44-47, 64-68	✓
103-2	The management approach and its components 管理方法及其部分	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	64-68	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	64-68	✓
<b>GRI 404: Training and Education 2016 培訓與教育</b>				
404-1	Average hours of training per year per employee 員工每年接受訓練的平均時數	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	64-68	✓
404-2	Programs for upgrading employee skills and transition assistance programs 為提高員工技能而實施的計劃和提供之協助	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	64-68	✓
404-3	Percentage of employees receiving regular performance and career development reviews 接受定期績效及職業發展考評的員工的百分比	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	64-68	✓
<b>Diversity and Equal Opportunity 多元化與機會平等</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our People – Equal Opportunity and Diversity 持份者的參與 – 實質性評估； 我們的員工 – 平等機會與多元共融	44-47, 69-72	✓
103-2	The management approach and its components 管理方法及其部分	Our People – Equal Opportunity and Diversity 我們的員工 – 平等機會與多元共融	69-72	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People – Equal Opportunity and Diversity 我們的員工 – 平等機會與多元共融	69-72	✓
<b>GRI 405: Diversity and Equal Opportunity 2016 多元化與機會平等</b>				
405-1	Diversity of governance bodies and employees 公司治理組織和員工的多元化指標	Our People – Equal Opportunity and Diversity 我們的員工 – 平等機會與多元共融	69-72	✓
405-2	Ratio of basic salary and remuneration of women to men 按員工類別劃分，男女基本薪金和報酬比率	Our People – Equal Opportunity and Diversity 我們的員工 – 平等機會與多元共融	70	✓
<b>Disaster/Emergency Planning and Response 災難及應急預案規劃</b>				
<b>GRI 103: Management Approach 2016 管理方法</b>				
103-1	Explanation of the material topic and its Boundary 重大議題的描述和界限	Stakeholder Engagement – Materiality Assessment; Our People – Health & Safety 持份者的參與 – 實質性評估； 我們的員工 – 健康與安全	44-47, 72-74	✓
103-2	The management approach and its components 管理方法及其部分	Sector Specific: Contingency planning measures, disaster/emergency management plan and training programs, and recovery/restoration plans 行業專屬：應急計劃措施、災難/應急管理計劃和培訓方案，以及恢復/重建計劃  Our People – Health & Safety 我們的員工 – 健康與安全	72-74	✓
103-3	Evaluation of the management approach 管理方法的檢討	Our People – Health & Safety 我們的員工 – 健康與安全	72-74	✓



## 13.

## SEHK ESG Guide Content Index 環境、社會及管治報告索引

Topics, 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) in Sustainability Report 2016 or other references/ Explanation 可持續發展報告2016內的有關章節或其他說明	External Assurance 外部核實
<b>Environmental 環境範疇</b>			
<b>Topic A1: Emissions 層面 A1: 排放物</b>			
<b>General Disclosure 一般披露</b>	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste. 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無害廢棄物的產生等的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料	Environmental Management – Air Emissions Management and Climate Change Mitigation; Waste Water and Waste Management; Materials and Resources Usage 環境管理 – 管理氣體排放及應對氣候變化：污水及廢物處理：物料及資源利用	✓
<b>KPI A1.1</b>	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	✓
<b>KPI A1.2</b>	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 Management – Air Emissions Management and Climate Change Mitigation; Key Statistics 環境管理 – 管理氣體排放及應對氣候變化：主要數據	✓
<b>KPI A1.3</b>	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）	Fly Ash: 276,072.61 Tonnes 飛灰：276,072.61 噸 Intensity (tonne/tonnes of MSW treated): 0.0376 強度（噸/噸垃圾處理量）：0.0376	✓
<b>KPI A1.4</b>	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）	Bottom Ash: 1,826,449.60 Tonnes 爐渣：1,826,449.60 噸 Intensity (tonne/tonnes of MSW treated): 0.2486 強度（噸/噸垃圾處理量）：0.2486	✓
<b>KPI A1.5</b>	Description of measures to mitigate emissions and results achieved. 描述減低排放量的措施及所得成果	Environmental Management – Air Emissions Management and Climate Change Mitigation 環境管理 – 管理氣體排放及應對氣候變化	✓
<b>KPI A1.6</b>	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved. 描述處理有害及無害廢棄物的方法、減低產生量的措施及所得成果	Environmental Management – Waste Water and Waste Management 環境管理 – 污水及廢物處理	✓
<b>Topic A2: Use of Resources 層面 A2: 資源使用</b>			
<b>General Disclosure 一般披露</b>	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源（包括能源、水及其他原材料）的政策	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	✓
<b>KPI A2.1</b>	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 Management – Materials and Resources Usage 環境管理 – 物料及資源利用	✓
<b>KPI A2.2</b>	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）	Water Consumption: 23,189,260.59 tonnes 總耗水量23,189,260.59 噸 Intensity: (tonne/tonnes of MSW treated): 3.157 強度：（噸/噸垃圾處理量）：3.157	✓
<b>KPI A2.3</b>	Description of energy use efficiency initiatives and results achieved. 描述能源使用效益計劃及所得成果	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	✓
<b>KPI A2.4</b>	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 Management – Materials and Resources Usage 環境管理 – 物料及資源利用	✓
<b>KPI A2.5</b>	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	Our core products are green electricity and treated waste water, which do not involve the usage of packaging materials. 我們的主要產出物為清潔能源和經處理的污水，並不使用包裝物料。	✓
<b>Topic A3: The Environment and Natural Resources 層面 A3: 環境及天然資源</b>			
<b>General Disclosure 一般披露</b>	Policies on minimising the issuer's significant impact on the environment and natural resources. 減低發行人對環境及天然資源造成重大影響的政策	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	✓
<b>KPI A3.1</b>	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them. 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動	Environmental Management – Materials and Resources Usage 環境管理 – 物料及資源利用	✓

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<b>Social 社會範疇</b>			
<b>Employment and Labour Practices 僱傭及勞工常規</b>			
<b>Topic B1: Employment 層面 B1: 僱傭</b>			
<b>General Disclosure 一般披露</b>	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	Our People 我們的員工	√
<b>KPI B1.1</b>	Total workforce by gender, employment type, age group and geographical region. 按性別、僱傭類型、年齡組別及地區劃分的僱員總數	Our People 我們的員工	√
<b>KPI B1.2</b>	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	Our People – Equal Opportunity and Diversity 我們的員工 – 平等機會與多元共融	√
<b>Topic B2: Health and Safety 層面 B2: 健康與安全</b>			
<b>General Disclosure 一般披露</b>	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	Our People – Health & Safety 我們的員工 – 健康與安全	√
<b>KPI B2.1</b>	Number and rate of work-related fatalities. 因工作關係而死亡的人數及比率	Our People – Health & Safety 我們的員工 – 健康與安全	√
<b>KPI B2.2</b>	Lost days due to work injury. 因工傷損失工作日數	Our People – Health & Safety 我們的員工 – 健康與安全	√
<b>KPI B2.3</b>	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	Our People – Health & Safety 我們的員工 – 健康與安全	√
<b>Topic B3: Development and Training 層面 B3: 發展及培訓</b>			
<b>General Disclosure 一般披露</b>	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	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	√
<b>KPI B3.1</b>	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	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	√
<b>KPI B3.2</b>	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	Our People – Talent Recruitment and Retention 我們的員工 – 廣納賢士	√
<b>Topic B4: Labour Standards 層面 B4: 勞工準則</b>			
<b>General Disclosure 一般披露</b>	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	Our People – Equality Opportunity and Diversity 我們的員工 – 平等機會與多元共融	√
<b>KPI B4.1</b>	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	Our People – Equality Opportunity and Diversity 我們的員工 – 平等機會與多元共融	√
<b>KPI B4.2</b>	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	Our People – Equality Opportunity and Diversity 我們的員工 – 平等機會與多元共融	√

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<b>Operating Practices 營運慣例</b>			
<b>Topic B5: Supply Chain Management 層面 B5: 供應鏈管理</b>			
<b>General Disclosure 一般披露</b>	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	Our Sustainable Business – Our Supply Chain 我們的環保業務 – 我們的供應鏈	✓
<b>KPI B5.1</b>	Number of suppliers by geographical region. 按地區劃分的供應商數目	Our Sustainable Business – Our Supply Chain 我們的環保業務 – 我們的供應鏈	✓
<b>KPI B5.2</b>	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	Our Sustainable Business – Our Supply Chain 我們的環保業務 – 我們的供應鏈	✓
<b>Topic B6: Product Responsibility 層面 B6: 產品責任</b>			
<b>General Disclosure 一般披露</b>	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	Our Community – Science, Technology, and Environmental Protection Education 我們的社區 – 科技及環保教育	✓
<b>KPI B6.1</b>	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	Recall is not applicable as our major products are green electricity and treated waste water. 我們主要的產出物為清潔能源和經處理的污水，因此不適用於回收措施。	✓
<b>KPI B6.2</b>	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	Our Community – Community Caring and Engagement 我們的社區 – 社區關懷及融合	✓
<b>KPI B6.3</b>	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	Our Sustainable Business 我們的環保業務	✓
<b>KPI B6.4</b>	Description of quality assurance process and recall procedures. 描述質量檢定過程及產品回收程序	Message from CEO; Our Sustainable Business – Our Corporate Governance 行政總裁致辭：我們的環保業務 – 我們的企業管治	✓
<b>KPI B6.</b>	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	Not identified as material topic 不被定義為重大議題	✓
<b>Topic B7: Anti-corruption 層面 B7: 反貪污</b>			
<b>General Disclosure 一般披露</b>	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	我們的環保業務 – 我們的企業管治 Our Sustainable Business – Our Corporate Governance	✓
<b>KPI B7.1</b>	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	Our Sustainable Business – Our Corporate Governance 我們的環保業務 – 我們的企業管治	✓
<b>KPI B7.2</b>	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	Our Sustainable Business – Our Corporate Governance; Annual Report 2016 – Corporate Governance Report 我們的環保業務 – 我們的企業管治：2016年報 – 企業管治報告	✓
<b>Community 社區</b>			
<b>Topic B8: Community Investment 層面 B8: 社區投資</b>			
<b>General Disclosure 一般披露</b>	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests. 有關以社區參與來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。	Our Community – Community Caring and Engagement 我們的社區 – 社區關懷及融合	✓
<b>KPI B8.1</b>	Focus areas 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）	Our Community 我們的社區	✓
<b>KPI B8.2</b>	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）	Our Community 我們的社區	✓

# 2016

SUSTAINABILITY  
REPORT

可持續發展報告

CHINA EVERBRIGHT INTERNATIONAL LIMITED  
中國光大國際有限公司

Stock Code 股份編號 : 257



本報告以環保紙張印製  
This report is printed on environmentally friendly paper