



光大环境

EVERBRIGHT ENVIRONMENT

Stock Code: 257

Devoted to
ECOLOGY AND ENVIRONMENT
for a **BEAUTIFUL CHINA**

AUGUST 2023

China Everbright Environment Group Limited (“Everbright Environment”)

is a flagship enterprise of China Everbright Group Ltd. in the industrial sector, and is listed on the Main Board of The Stock Exchange of Hong Kong Limited (257.HK). As **China’s largest environmental enterprise, a leading player in Asia’s environmental protection industry, the world’s largest waste-to-energy investor and operator, and a world-renowned environmental group**, Everbright Environment has two listed subsidiaries, China Everbright Water Limited (U9E.SG & 1857.HK) and China Everbright Greentech Limited (1257.HK).

In 2022, Everbright Environment’s revenue exceeded HKD37 billion and the profit attributable to shareholders of the company was approx. HKD4.6 billion. As of the end of 2022, the company’s total assets surpassed HKD190 billion, with approx. 13,000 employees in total. As of now, the company has invested in over 580 projects, with a total investment of approx. RMB160 billion. Of which, the waste-to-energy projects serve approx. 120 million residents in China.

Focusing on three major areas, namely **solid waste, water-related business and clean energy**, Everbright Environment has formed three core business areas of environmental energy, environmental water and greentech, in addition to two supporting sectors of envirotech and equipment manufacturing.



*The company’s business footprint spans across 26 provinces, municipalities, autonomous regions and special administrative region in China, as well as **Germany, Poland, Vietnam** and **Mauritius**.*

GOLDEN BRAND

Operational Management

- ▶ First place in the Top 10 Influential Solid Waste Treatment Enterprises in China (for 12 consecutive years)
- ▶ A Fortune China 500 Company (for two consecutive years)
- ▶ A Constituent of MSCI China Index (for ten consecutive years)
- ▶ One of the Top 10 Firms with Highest Corporate Governance Index Scores (2020)
- ▶ Hong Kong Corporate Governance & ESG Excellence Awards (2017 & 2021)

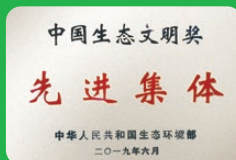


First place in **Top 50 Environmental Protection Enterprises in China** (for **four** consecutive years)

Social Responsibility



Advanced Group on **Ecological Civilization in China**



- ▶ Social Responsibility Brand of the Year (for nine consecutive years)
- ▶ Over 100 environmental education/science education bases

Sustainability

- ▶ A constituent of Hang Seng Corporate Sustainability Benchmark Index (for 12 consecutive years)
- ▶ Achievement of Net-Zero Certificate
- ▶ A Pioneering Organisation in Net-Zero Contribution
- ▶ A member of S&P Global's Sustainability Yearbook (for six years)



Member of
Dow Jones Sustainability Indices
Powered by the S&P Global CSA



A constituent of **Dow Jones Sustainability Index Series** (for **seven** consecutive years)

Brand



Top in Brand Value Ranking for China's listed environmental protection companies (with brand value exceeding RMB20 billion)

Technological Innovation



One of the **2021 China Top 100 New Technology Companies**

- ▶ State Scientific and Technological Progress Award (second prize)
- ▶ Environmental Protection Science and Technology Award (first and second prizes)
- ▶ The 200 tonnes/day quick loading small-scale furnace research and development and industrialisation project regarded a demonstration project by the National Development and Reform Commission of the People's Republic of China ("PRC")

SOLID WASTE

Everbright Environment focuses on the deployment of solid waste industry chain, to foster the integrated development of the integrated utilisation of resources and energy.



Major Business Areas

- ▶ Waste-to-energy
- ▶ Food and kitchen waste treatment
- ▶ Heat supply
- ▶ Sludge treatment and disposal
- ▶ Leachate treatment
- ▶ Waste sorting, collection, transferring and transporting
- ▶ Hazardous and solid waste treatment
- ▶ Development of environmental protection industrial parks



Designed Solid Waste Processing Capacity



Household waste
over **157,000** tonnes/day



Food and kitchen waste
over **8,500** tonnes/day



Hazardous and solid waste
over **2.4** million tonnes/year

The world's Largest Waste-to-energy Investor and Operator



Xiongan Integrated Waste Treatment Project

The world's second and China's only semi-underground integrated waste treatment project.



Hebei Zhangjiakou Waste-to-energy Project

A waste-to-energy project supporting the 2022 Beijing Olympic Games



Jiangxi Ji'an Waste-to-energy Project

A Site for Social Practise recognised by China Executive Leadership Academy, Jinggangshan, Jiangxi Province



Hainan Boao Net-Zero Demonstration Project (EPC)

A demonstration project for China's "Peaking Carbon Emissions and Achieving Carbon Neutrality" ("Dual Carbons") Strategy

Zhejiang Hangzhou Waste-to-energy Project

China's first waste-to-energy project that solved the NIMBY (Not-in-My-Backyard) effect and was established at its original construction site, and one of the company's four projects that received the Luban Prize



Jiangsu Changzhou Waste-to-energy Project

A "community-friendly plant" and "living room of the city" with public amenities but without walls, and a typical case on overcoming obstacles since the 18th National Congress recognised by the Organisation Department of the CPC Central Committee in China

Jiangsu Suzhou Waste-to-energy Project

A "garden-like factory" in the news report of China Central Television (CCTV) and one of the company's 14 waste-to-energy projects that have been granted the certificate of the National AAA-rated Household Waste Incineration Plant



Vietnam Can Tho Waste-to-energy Project

A green benchmark of the Mekong River, and was featured in the "Belt and Road" reporting series in several national media platforms such as CCTV and China National Radio website

WATER-RELATED BUSINESS

Everbright Environment focuses on the water environment management, to create value to industries through various water-related businesses.

Major Business Areas

- ▶ Municipal waste water treatment
- ▶ Industrial waste water treatment
- ▶ Reusable water
- ▶ River-basin ecological restoration
- ▶ Water supply
- ▶ Raw water protection

Designed water treatment capacity:



Municipal and industrial
waste water
over **6.2 million** m³/day



Reusable water supply
over **300,000** m³/day



Water supply
850,000 m³/day

China's First-Class Water Environment Management Service Provider

Shandong Ji'nan Waste Water Treatment Project

The only Chinese project in the 12 successful PPP (Public-Private-Partnership) cases in the world at the "2016 UNECE* International PPP Forum"



Jiangsu Zhenjiang Sponge City Construction PPP Project

One of the fiscal supported pilot projects for sponge city construction and one of the Top 5 projects in the Building Back Better Infrastructure Award of UNECE*

Shandong Zibo Zhangdian Industrial Waste Water Treatment Project

A benchmark project in terms of market-oriented industrial park environment management



* UNECE: United Nations Economic Commission for Europe

CLEAN ENERGY

Everbright Environment focuses on the deployment of clean energy business to foster the development of “carbon-zero” industrial parks.



Major Business Areas

- ▶ Integrated biomass utilisation
- ▶ Solar Power
- ▶ Wind power
- ▶ Environmental remediation



Designed treatment capacity



Biomass materials
over **8.1 million** tonnes/year



Installed capacity
over **170** MW

*A Leading Intelligent Energy Supplier
Dedicated To “Carbon Neutrality”*

Jiangsu Feng County County-wide Solar Power Project

A county-wide distributed rooftop solar energy project, with a total power generation capacity of 200 million kWh, thereby reducing carbon dioxide (CO₂) emissions by 180,000 tonnes per annum



Anhui Lingbi Integrated Biomass and Waste-to-energy Projects

China's first urban-rural integration project that was built at one time.

Jiangsu Suzhou Wujiang Municipal Household Waste Landfill Remediation Project

A project that adopts multiple energy-saving, efficient remediation technologies that could avoid secondary pollution



TECHNOLOGY

Everbright Environment considers technological innovation as the core engine for its development, with a focus on environment-related scientific research and advanced manufacturing.



Key research areas

- ▶ High-value utilisation of household waste
- ▶ Utilisation of agricultural and forestry biomass resources
- ▶ Harmless disposal of general industrial solid waste
- ▶ Water environment treatment
- ▶ Treatment of waste water with high concentration of organic pollutants
- ▶ Big data and intelligent control



Total number of patents granted
over **1,800**

*Breaking the **Monopolies of Foreign Technologies** and
Becoming a **World-leading Player in the Field***

*A National **"Little Giant"** enterprise that uses special and sophisticated technologies to produce novel and unique products and services and A National Service-Oriented Manufacturing Demonstration Enterprise in China*



Self-developed Environmental Protection Equipment



● Core equipment for waste incineration and treatment

- 300 tonnes/day-1,000 tonnes/day grate furnace series
- Small-scale household waste grate furnace
- Flue gas purification system
- Leachate treatment system



- Food and kitchen waste treatment equipment
- DTRO membrane treatment equipment

RESPONSIBILITY

Pollution Reduction

Everbright Environment offers high-quality environmental protection services to continuously improve the living and ecological environment.

- ▶ It accumulatively processed approx. 217 million tonnes of household waste, over 1.77 million tonnes of hazardous and solid waste and over 34 million tonnes of agricultural and forestry waste, which aggregately provided more than 100 billion kWh green electricity, equivalent of saving more than 42 million tonnes of standard coal.
- ▶ The company also aggregately treated more than 14.7 billion m³ of waste water and more than 47 million m³ of leachate, which reduced chemical oxygen demand (COD) of more than 5.7 million tonnes.

Carbon Reduction

The company leverages on its business characteristics and advantages to proactively implement China's "Dual Carbons" strategy.



In 2022, greenhouse gas emissions (GHG) reduction of nearly **7 million tonnes**

- ▶ Participation in the draft of the national standards relating to carbon accounting
- ▶ Completion of the pilot project on the on-site monitoring of GHG emissions, as assigned by the Ministry of Ecology and Environment of the PRC
- ▶ Continued efforts to launch various low-carbon pilot programs to develop low-carbon benchmark projects.

Community Engagement

The company strives to fulfill its corporate social responsibility, to enhance shared interests among government authorities, businesses and residents.

- ▶ Over 150 projects of the company have opened up for public visits
- ▶ Over 700,000 visitors from all social circles visited the company's projects
- ▶ The company closely works with local government authorities and residents to plan, organise and participate in activities of various types, such as science popularisation, education, training and exchange, relating to ecological conservation, sustainability and other similar themes, in a bid to enhance the mutual understanding and support.



WORD CLOUD (MEDIA COVERAGE)





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