

中國光大國際有限公司 China Everbright International Limited

(股份編號 Stock code: 257)





20 February 2012

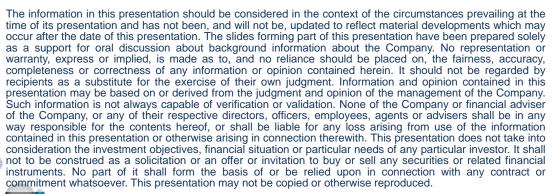




中國光大國際有限公司 China Everbright International Limited (股份編號 Stock code: 257)

Forward-looking statements











Agenda

- Results Highlights
- Financial Review
- Energy Conservation & Emission Reduction
- Business Review
 - Business Overview
 - Corporate Positioning
- Q & A







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Results Highlights



Results Highlights (1) I



Continuous development of environmental protection and alternative energy businesses with the following record achievements in 2011:



- Largest number of projects completed construction and has started operation (13 projects)
- ▶ 8 new projects commenced construction
- Secured 11 new projects
- Obtained 4 significant R&D results



5



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Results Highlights (1) II



- China's largest waste-to-energy investor and operator with a total of 13 projects capable of processing household waste exceeding 12,000 tonnes per day.
- China's largest rooftop solar PV energy investor and operator with a total completed installation area of 273,000 m² and an installed capacity of 20 MW
- China's largest leachate treatment investor and operator with a daily
 treatment capacity of 3,350 tonnes
 - China's largest waste water source heat pump investor and operator with a heating and cooling capability serving 250,000 m²



Results Highlights (2)



- Attained new height in business results
 - Maintained growth in scale and efficiency in tandem with efficiency growing faster than scale
 - Profit before taxation exceeded HK\$1 billion for the first time
 - Growth in both gross margin and returns to shareholders
 - Increase in cash on hand and reasonable gearing level





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Results Highlights (3)



- Operating projects maintained a stable operation with continuous improvement in quality
 - ▶ 42 projects completed construction and in operation with a total investment of HK\$9.58 billion
 - ▶ The highest waste-to-energy emission standard (The gas emission of all operating plants are in compliance with EU 2000)
 - Integrated utilization of water resources continued to expand in scope
 - Tariff hikes obtained successfully for several projects, such as Zibo, Jinan, Jiangyin, Changzhou and Zhenjiang





Results Highlights (4) I



- Continuous business innovation with various breakthroughs
 - The first waste-to-energy plant of the Group equipped with selfdeveloped grate furnaces and automatic control system completed construction and has commenced operation in Zhenjiang
 - ► The first overseas photovoltaic energy project of the Group started operation in Germany
 - ► The first batch of reusable water projects for integrated utilisation of water resources was completed and has commenced operation
 - The first waste water source heat pump project of the Group was completed and has commenced operation

9



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Results Highlights (4) II



- Continuous business innovation with various breakthroughs
 - The first biomass power generation demonstration project was completed and has started operation
 - The first charitable school has started enrolment and commenced the initial school term
 - The first CDM project of the Group was registered with the United Nations
 - The Group obtained the approval of its first-ever projectspecific subsidy by the Central Government
 - The Group has been selected as a constituent member of the Hang Seng Corporate Sustainability Benchmark Index





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Results Highlights (5)

- 4 promises amidst global economic volatility
 - no layoffs, no pay cuts
 - increase investment in R&D and training
 - create more job opportunities
 - share successes with our shareholders



11



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Financial Review



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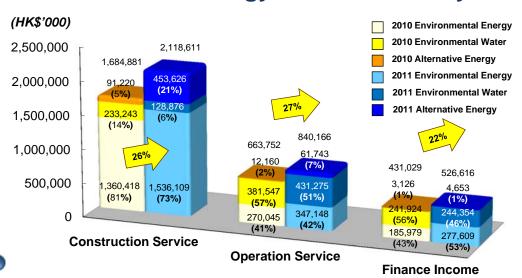
Financial Review

(HK\$'000)	For the year ended 31 December		Change
	2011	2010	
Turnover	3,663,563	2,929,415	25%
Gross profit	1,575,127	1,145,764	37%
EBITDA on recurring basis	1,439,571	1,059,858	36%
Profit attributable to equity shareholders	801,441	616,433	30%
Basic EPS	HK21.86 cents	HK16.92 cents	29%
Dividends per share	HK4.5 cents	HK2.50 cents	80%
1			



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Turnover Analysis of Environmental Protection and Alternative Energy Businesses - By Activity



Turnover of Environmental Protection and Alternative Energy Businesses:

2011: HK\$3,485,393,000 (up 25%)

2010: HK\$2,779,662,000



Profit Attributable to Shareholders

Profit attributable to shareholders for 2011 increased by 30% to HK\$801,441,000 as compared with HK\$616,433,000 for 2010

- EBITDA contribution of environmental protection and alternative energy businesses increased by 40% to HK\$1,359,579,000
- EBITDA contribution of infrastructure business increased by 18% to HK\$149,164,000

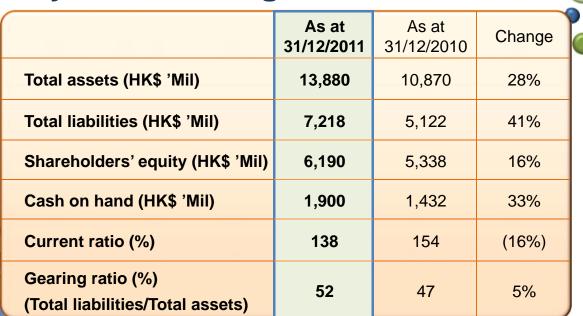


15



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Key Financial Figures





Strong Financial Strength



- At the end of 2011, the Group had cash on hand of approximately HK\$1.9 billion and available banking facilities of approximately HK\$1 billion. This together with the B Loan facility of Asian Development Bank of approximately HK\$780 million amounted to available financial resources of approximately HK\$3.7 billion
- Reasonable gearing level and sound financial position
 - With good reputation and credibility, the Group has laid a solid foundation for the robust growth of its business

17



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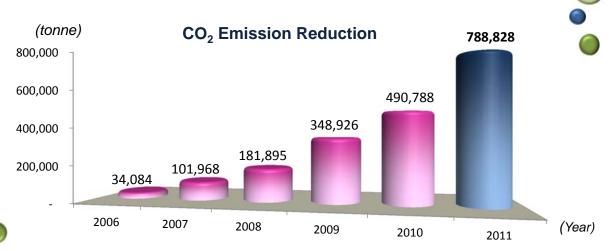


Energy
Conservation
and
Emission
Reduction



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Energy Conservation & Emission Reduction (

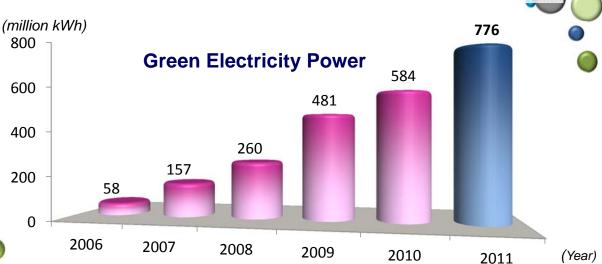


In 2011, green electricity generated by waste-to-energy and methane-to-energy projects was 776 million kWh, equivalent to coal saving of 311,000 tonnes and hence reduced 789,000 tonnes of CO₂ emission. The accumulated green electricity supply reached 2,318 million kWh, equivalent to coal saving of 927,000 tonnes and reduction of approximately 1.946 million tonnes of CO₂ emission. (From 2011 onwards, the calculation methods have been adjusted, as a result of which all the figures in emission reduction exclude project production emissions.)



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Energy Conservation & Emission Reduction (

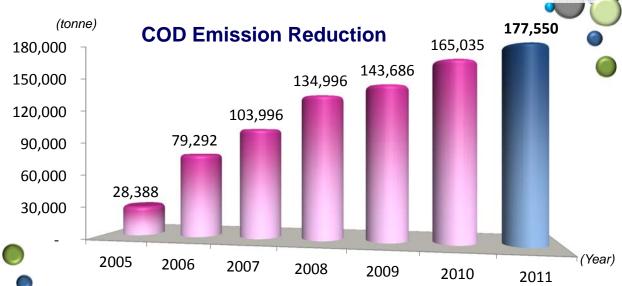


In 2011, green electricity generated by waste-to-energy and methane-to-energy projects was 776 million kWh which fulfilled demand of approximately 647,000 households. The accumulated green electricity supply reached 2,318 million kWh which fulfilled demand of approximately 1,931,000 households.





Energy Conservation & Emission Reduction (3)



In 2011, the Group treated 501,000,000 m³ of waste water (including leachate from waste-to-energy projects) which reduced COD emission of approximately 178,000 tonnes. The accumulated COD emission reduction was approximately 833,000 tonnes.

21



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Business Overview

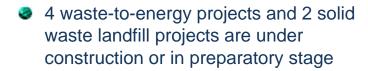
- Environmental Energy
- Environmental Water
- Alternative Energy
- Environmental Protection
 Equipment Manufacturing
- Environmental Protection Industrial Park





Environmental Energy (1)





Commanding a total investment of RMB6.405 billion



23



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Environmental Energy (2)

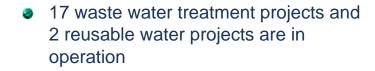
Designed capacity :

- annual household waste processing capacity of approximately 4.58 million tonnes
- annual on-grid electricity generation capacity of approximately 1.292 billion kWh
- other solid waste landfill capacity of approximately 1.148 million m³





Environmental Water (1)



2 waste water treatment projects, 1 reusable water project and 1 surface water project are under construction or in preparatory stage

Commanding a total investment of RMB3.587 billion







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Environmental Water (2)

Designed capacity:

- Annual waste water treatment capacity of 657 million m³
- Annual reusable water supply of 22.33 million m³
- Annual surface water supply of 36.5 million m³





25



Alternative Energy (1)



6 methane-to-energy projects, 8 photovoltaic energy projects, 1 biomass power generation project and 1 waste water source heat pump project are in operation



1 methane-to-energy project,
 5 biomass power generation projects and
 1 waste water source heat pump project are under construction or in preparatory
 stage

19 individual projects commanding a total investment of RMB2.863 billion

27



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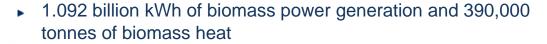
Alternative Energy (2)

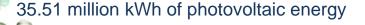


Designed capacity – annual agricultural waste treatment capacity of 1.75 million tonnes and annual electricity generation of 1.172 billion kWh, of which



- 27 million kWh of landfill methane-to-energy
- 10.5 million kWh of leachate methane-to-energy
- 7.3 million kWh of sludge methane-to-energy











Environmental Equipment Manufacturing (1)



- Entering into a new business sector
- Enhancing the industry chain



29



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Environmental Equipment Manufacturing (2)

- Entering a new business sector
 - Focusing on international high-end technology in order to tackle with the bottleneck caused by existing equipment constraints
 - Obtained approval for a subsidy of RMB9.7 million earmarked from the 2012 Strategic Emerging Industries Fund (Energy Saving and Environmental Protection) by the National Development and Reform Commission (NDRC)
 - ▶ Suitable for use in the PRC environmental protection market
 - Enhancing the industry chain by expanding from downstream to midstream







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Environmental Equipment Manufacturing (3)





- R&D on the biomass water-cooling reciprocal grate furnace and automatic control system is underway
- Sludge "dehydration incineration" system
- Leachate treatment system
- Emission purification system

31



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Environmental Protection Industrial Park

 7 Environmental Protection Industrial Parks



Commanding a total investment of approximately HK\$15 billion





EnvironmentalProtection Engineering

- National High Tech Enterprise
- Possess the "Main Contractor for Municipal Public Works" Licence
- Obtained numerous national and provincial
 Golden or Silver awards for quality
- 18 projects are under construction or in the preparatory stage, commanding a total investment of approximately RMB5.16 billion







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Environmental Protection Technology

- National High Tech Enterprise
- Obtained numerous invention and application patents
- Possess numerous significant R&D results



10 Major R&D Topics





Infrastructure Investment

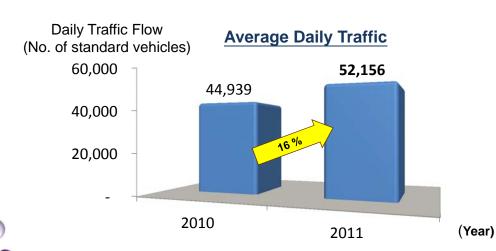
The Fuzhou Qingzhou Bridge is 1,193m in length, with the major part accounting for 605m. It is the only bridge over Minjiang serving the Shenhai Expressway, a coastal trunk road.

35



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Infrastructure Investment



In 2011, daily traffic flow increased by 16% to 52,156 vehicles

EBITDA increased by 18% to HK\$149,164,000.







37



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Awards & Honors



In 2011, Everbright International:

was selected as a constituent member of the Hang Seng Corporate Sustainability Benchmark Index in Hong Kong



- was named The Most Investment Potential Company by Capital Magazine and Capital Weekly
- garnered five prizes in the "Green China 2011 Environmental Achievement Award" co-organised by the United Nations Environmental Protection Programme and a total of five environmental protection associations in Mainland China, Hong Kong and Macau
- was ranked No. 1 in the "2011 Most Influential Solid Waste Enterprises" by solidwaste.com.cn
 - captured the "Hong Kong Outstanding Enterprises Award" organised by Hong Kong Economic Digest for the fifth consecutive time



Corporate Positioning



- High Starting Point
- Wider Horizon
- Stronger Cohesiveness
- Powerful Forces
- Steady Development
- Advanced Technology
- Excellent Quality
- Better Returns

39



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- To become a business conglomerate which has integrated technology development, construction and operation management
- To become the leading player in the green environmental protection and alternative energy industries



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Q&A

41



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Appendix

43



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Environmental Energy (1)

Operating Projects:





Environmental Energy (2)

Projects under construction or in preparatory stage:



Project Name	Daily processing capacity (tonne)	Total Investment (RMB'mil)
Suzhou Waste-to-energy Project Phase III	1,500	750
Yixing Waste-to-energy Project Phase II	300	151
Huidong Waste-to-energy Project	600	334
Nanjing Waste-to-energy Project (2012 new project)	2,000	1,030
Zhenjiang Industrial Solid Waste Landfill Project	296,000 m ³	100
Suqian Hazardous Waste Landfill Project	340,000 m³	99
Sub-total	4,400 tonnes 636,000 m ³	2,464
Total for Environmental Energy	12,550 tonnes 1,148,000 m ³	6,405

光大國際

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Environmental Protection Industrial Park



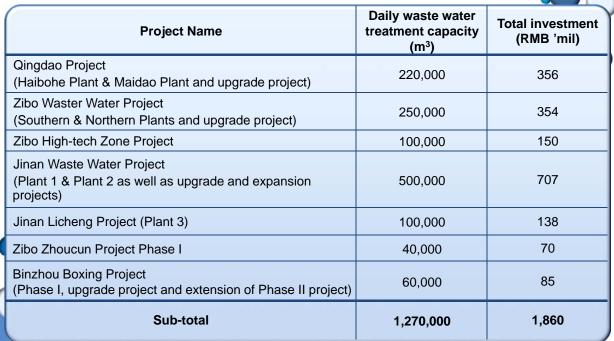
Industrial Park	Investment (RMB)	Expected no. of projects
Suzhou Everbright National Demonstrative Veinous Industrial Park	3.3 billion	>10
Zhenjiang Environmental Protection Industrial Park	1.5 billion	6 – 8
Suqian Environmental Protection Industrial Park	1.6 billion	6 – 8
Changzhou Environmental Protection Industrial Park	1 billion	9
Yantai Environmental Protection Industrial Park	HK\$3-5 billion	>10
Yixing Environmental Protection industrial Park	2-3 billion	>10
Nanjing Everbright National Demonstrative Veinous Industrial Park	4.2 billion	>10



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Environmental Water (1)

Operating Projects:

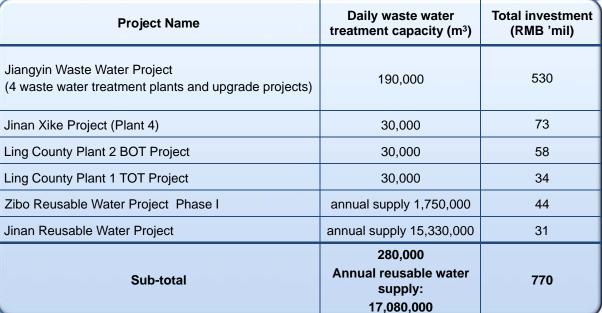




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Environmental Water (2)

Operating Projects:



47



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(股份編號 Stock code: 257)

Environmental Water (3)



Transferred Project:

Project Name	Daily waste water treatment capacity (m³)	Total investment (RMB 'mil)
Xinyi BT Project Phase I	10,000	62
Sub-total	10,000	62







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Environmental Water (4)

Projects in preparatory stage:





Alternative Energy (1)



Operating Projects:

Project Name	Average annual electricity generation capacity (kWh)	Total investment (RMB 'mil)
Suzhou Landfill Methane-to-energy Project Phase I	18,000,000	28
Suzhou Landfill Methane-to-energy Project Phase II	9,000,000	13
Qingdao Sludge Methane-to-energy Project	7,300,000	included in investment of Qingdao Project
Yixing Leachate Methane-to-energy Project	630,000	included in investment of Yixing Project
Changzhou Leachate Methane-to-energy Project	2,730,000	included in investment of Changzhou Project
Jiangyin Leachate Methane-to-energy Project	1,890,000	Included in investment of Jiangyin Project Phase II
Sub-total	39,550,000	41



Operating Projects:

Phase I

Sub-total

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Alternative Energy (2)

Average annual electricity

219,517,000 kWh

Service area: 125,000 m²



Total investment

1,100

Project Name	generation capacity (kWh)	(RMB 'mil)
Shenzhen Rooftop Photovoltaic Energy Project	1,480,000	28
Zhenjiang Ground Photovoltaic Energy Project	4,059,000	73
Suqian Rooftop Photovoltaic Energy Project	2,205,000	53
Huaining Ground Photovoltaic Energy Project	2,170,000	51
German Ground Photovoltaic Energy Project	3,612,000	68
Suqian Rooftop Photovoltaic Energy Project Phase II	6,198,000	142
Changzhou Rooftop Photovoltaic Energy Project	4,113,000	79
Zhenjiang Rooftop Photovoltaic Energy Project	11,680,000	236
Dangshan Biomass Power Generation Project	184,000,000	312
Zibo Waste Water Source Heat Pump Project	Service area: 125,000 m ²	58



Alternative Energy (3)

Projects in preparatory stage:

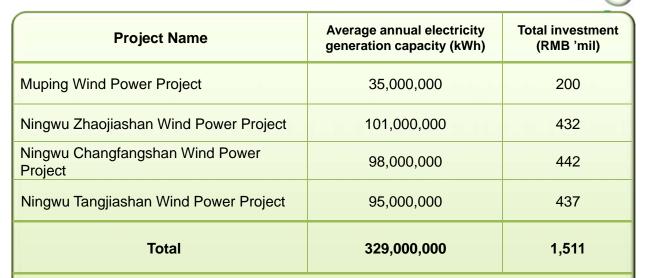
Project Name	Average annual electricity generation capacity (kWh)	Total investment (RMB 'mil)
Suzhou Leachate Methane-to-energy Project	5,250,000	8
Zibo Ceramic Park Heat Pump Project	Service area: 187,000 m ²	93
Xinyi Biomass Power Generation Project	184,000,000	321
Shuyang Biomass Cogeneration Project	Electricity: 172,250,000 Heat: 390,000 tonnes	340
Linyi Biomass Power Generation Project	184,000,000	320
Laiyang Biomass Power Generation Project	184,000,000	320
Hanshan Biomass Power Generation Project	184,000,000	320
Sub-total	Electricity: 913,500,000 Service area: 187,000 m ² Heat: 390,000 tonnes	1,722
Total for Alternative Energy	Electricity: 1,172,567,000 kWh Service area: 312,000 m ² Heat: 390,000 tonnes	2,863



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Alternative Energy (4)

Wind Power Projects in preparatory stage:



Note: No investment has been made in any of these wind power projects.

54