

FY2018 Results Presentation

March 2019



DRIVING GROWTH

AND EXPANSION

Important Notice



This document has been prepared by China Jinjiang Environment Holding Company Limited ("Jinjiang Environment" or the "Company"), solely as presentation materials to be used by the Company's management. It may contain projections and forward-looking statements that reflect the Company's current views with respect to future events and financial performance. These views are based on current assumptions which are subject to various risks and which may change over time. No assurance can be given that future events will occur, that projections will be achieved, or that the Company's assumptions are correct.

The information is current only as of its date and shall not, under any circumstances, create any implication that the information contained therein is correct as of any time subsequent to the date thereof or that there has been no change in the financial condition or affairs of the Company since such date. Opinions expressed herein reflect the judgement of the Company as of the date of this presentation and may be subject to change. This presentation may be updated from time to time and there is no undertaking by the Company to post any such amendments or supplements on this presentation.

The Company will not be responsible for any consequences resulting from the use of this presentation as well as the reliance upon any opinion or statement contained herein or for any omission.



Contents



- 1. Company Overview
- 2. Operational Highlights
- 3. Financial Highlights
- 4. Growth Strategy





Company Overview



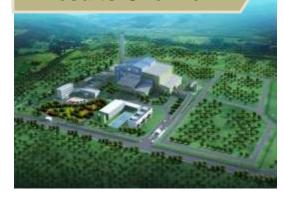
About Jinjiang Environment



Jinjiang Environment

- ✓ First mover and leader as well as the first private operator in the Waste-To-Energy (WTE) industry in the PRC
- ✓ Established PRC's first WTE plant using Circulating Fluidised Bed (CFB) incineration technology in 1998 and built a track record spanning over 20 years
- ✓ Listed on the mainboard of the Singapore Exchange on 3 August 2016
- √ As at 31 December 2018, 15 facilities out of 20 WTE facilities in operation are under BOO model

Results Overview



As at 31 December 2018

RMB million	FY2018	FY2017	Change (%)	4Q2018	4Q2017	Change (%)
Revenue	3,030.8	2,715.1	11.6	921.9	858.6	7.4
WTE Revenue	2453.2	2,324.0	5.6	699.9	659.6	6.1
Gross Profit	1,043.2	1,034.6	0.8	242.6	352.9	(31.3)
Profit Before Tax	748.3	819.2	(8.7)	190.4	264.6	(28.1)
Net Attributable Profit	541.1	601.2	(10.0)	162.3	204.7	(20.7)

Business Overview



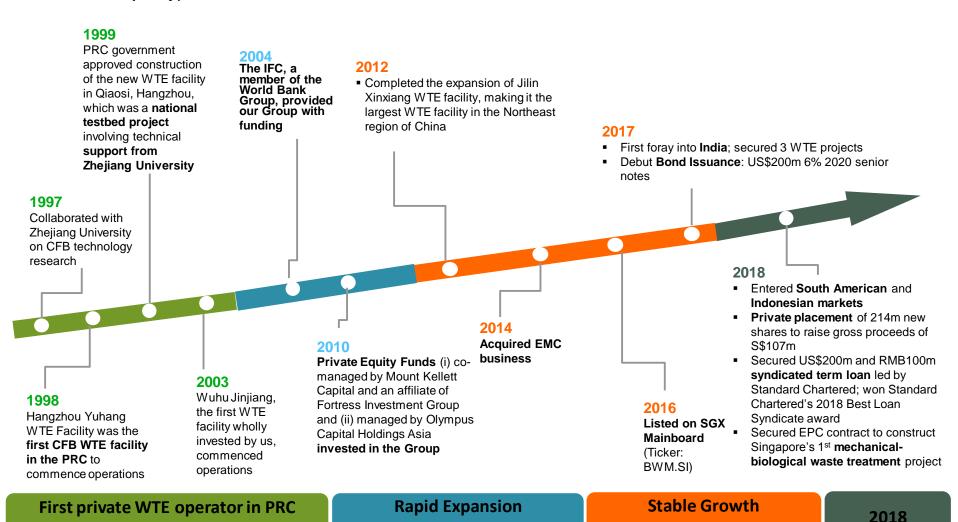
	WTE BUSINESS	EMC BUSINESS
Description	 Treatment of municipal solid waste and generation of steam and electricity with the following revenue streams: Waste treatment (contracted with local government) Electricity generation (tariffs decided by central and local governments) Steam supply (fee decided by local government or company) Majority on Build-Own-Operate (BOO) model and the rest on Build-Operate-Transfer (BOT) model 	 Provision of EMC services to Metallurgical, chemical and power generation companies since 2014 Scope of services include: Energy saving and residual heat utilisation Operational optimization and equipment selection advisory Management and operational support Technical advisory on energy saving
Scale and Capacity	 WTE facilities in operation: 20 in 12 provinces, autonomous regions and centrally-administered municipalities in the PRC WTE facilities under construction & expansion: 6 in China, 1 overseas WTE facilities in preparation stage: 18 in China, 4 overseas Presence in India, Brazil and Indonesia Current waste treatment capacity of 29,240 tons/day When fully completed and acquired (China and overseas), total capacity will increase to approximately 67,256 tons/day 	 Current portfolio of 34 EMC projects, of which 28 have produced energy-saving results and the remaining 6 are undergoing construction 42 technology consulting projects have been implemented As at 31 December 2018

Important Milestones

(1998 - 2003)



Established in 1998, Jinjiang Environment is the first private and a leading Waste-To-Energy (WTE) operator (by treatment capacity) in the PRC.



(2004 - 2010)

(2011 - 2017)

Strong Shareholding Structure



Strong shareholder background provides firm support for company's development⁽¹⁾



China Green Energy Limited

- China Green Energy is an affiliate of the Hangzhou Jinjiang Group
- The Jinjiang Group is China's top 500 private enterprise, engaging in environmental protection & energy, non-ferrous metal and chemicals business

Harvest Environmental Investment Fund SP

A fund managed by Harvest Global Capital (Cayman) Investments Limited, a whollyowned subsidiary of Harvest Global Capital Investments Limited

AEP Investments (Mauritius) Limited

- A fund wholly owned and managed by Olympus CapitalOlympus Capital
- Olympus Capital is US-based private equity, founded in 1997

Whitel Management Company Limited

An affiliate of Hopu Investments

Other institutional investors⁽³⁾

 Company's shares are subscribed by many renowned institutional investors during IPO, including Great Eastern Life (Malaysia), Hailiang International and UOB AM

- (1) Based on 1,443,246,800 shares as of 31 December 2018
- (2) Through wholly-owned subsidiary
- (3) Based on SGX's announcement on 3 August 2016

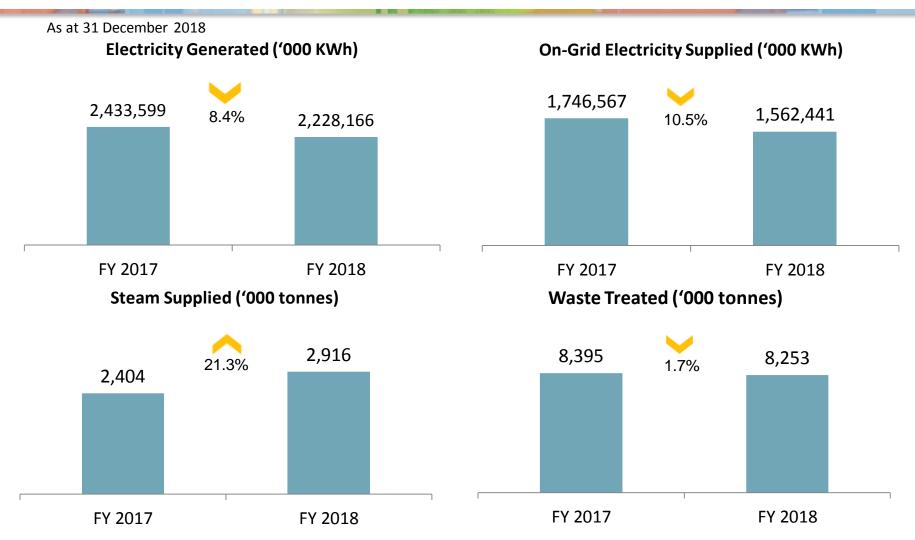


Operational Highlights



Operational Analysis





In response to the rapidly growing demand for waste disposal in the future, the Group began to upgrade 8 waste-to-energy facilities that have longer operating time and higher waste capacity, in the second half of 2017. This affected the overall supply of waste and the growth of power supply. Following the start of operations of the Zhuji Bafang WTE Facility, the amount and coverage area of heat supply increased significantly.

Extensive Portfolio in the PRC with Growing Overseas Footprint





Jinjiang Environment

Total Capacity 67,256 tons/day

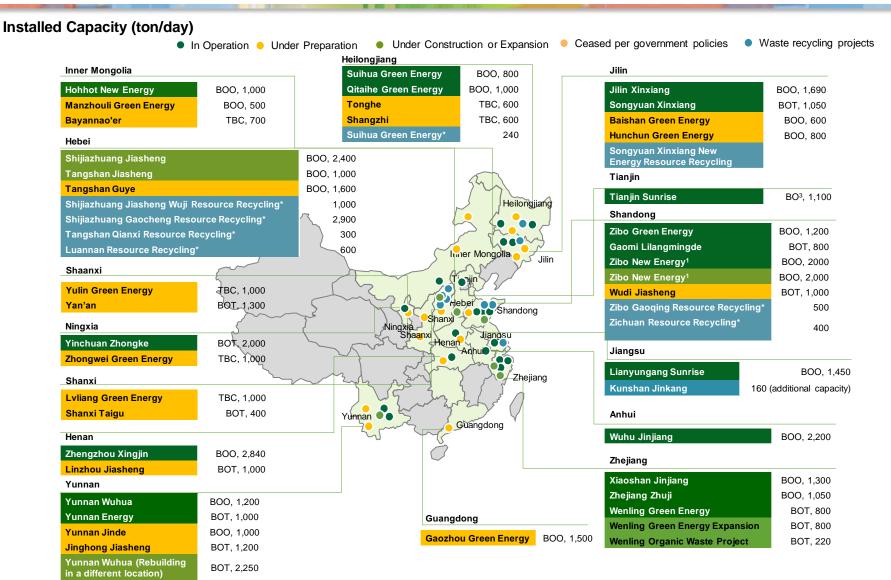
China Projects				
No. of projects	Project Category	Capacity		
24	Operational (including 4 resource recycling projects)	29,240 tons/day		
6	Construction & Expansion	8,670 tons/day		
8	Upgrading	5,000 tons/day		
18	Preparatory (existing)	16,250 tons/day		
6	Resource recycling	3,000 tons/day		
Total		62,160 tons/day		

As at 31	December 2018
AS at ST	Decelline 2010

ndia Projec		
No. of Projects	Project Category	Capacity
2	Preparatory	2,106 tons/day
1	Construction	1,165 tons/day
Total		3,271 tons/day
Brazil Proje	ct 🔷	
No. of Projects	Project Category	Capacity
1	Preparatory	825 tons/day
Total		825 tons/day
Indonesia Project		
	Project Category	Capacity
No. of Projects		
No. of Projects	Preparatory	1,000 tons/day

Our Extensive Footprint in China





Upgrading and Expansion of WTE Facilities



Large-scale technical upgrading project involving some of CJE's presently operating WTE facilities when completed will significantly expand WTE capacity, increase operational efficiency, reduce emission levels and proportion of coal used

As at 31 December 2018, 8 WTE projects undergoing upgrading. Upon completion in 2019, **total capacity increase = 5,000 tons/day**

Expand WTE Capacity Increase Operational Efficiency

Reduce Emission Levels

Reduce coal usage

- Carried out in stages to minimise disruption
- Total CAPEX = Approximately RMB 1 billion
- Waste management investment of 200,000 yuan/ton, much lower than an investment in a power plant
- As at end of December, a total of RMB530 million had been paid to contractors in relation to the upgrading and capacity expansion project

Project Progress:

- As of 4Q2018, the upgrading of the Zichuan and Wuchang WTE Facilities has been completed
- At present, some of the newly-operational units have achieved stable operations, with significant improvements in waste treatment capacity and boiler efficiency, while the negative financial impact of the upgrading project has been significantly reduced
- In 4Q2018, significant improvements were achieved in waste treated, power generated, on-grid power supply and WTE business revenue (excl. BOT construction revenue)

Added Recent Business Updates Linzhou WTE Facility



October 2018

✓ Opening ceremony held on October 28

✓ Key project of Henan Province, Anyang City and Linzhou Planning Venous Industrial Park

WTE Capacity: 1,000 tons/day (First phase 500 tons/day)

Waste Treatment Fee: RMB55/ton

Model: BOT

Implemented technology: Grate Furnace Process



- ✓ Received RMB15 million of special subsidies from central finance for ecological civilisation construction.
- ✓ Annually, it can treat 365,000 tons of urban and rural domestic waste harmlessly and generate 160 million kWh of electricity.
- ✓ Saving landfill land of nearly 100 mu, providing economical, environmental and social benefits.

Added Recent Business Updates Leting WTE Facility



November 2018

- Leting municipal solid waste comprehensive treatment
 WTE PPP facility
- ✓ Concession period of 30 years

WTE Capacity: 450 tons/day (municipal waste) + 100 tons/day (solid waste) + 60 tons/day (sewage)

Waste treatment fee (municipal waste): RMB98/ton

Model: BOO

Implemented technology: Grate Furnace Process

Hebei

- ✓ Located in the heart of the Bohai Bay and the core area of the Beijing-Tianjin-Hebei metropolitan area, and at the same time surrounded by Jintang port area and adjacent to Caofeidian port area, it is capable of handling the requirements for "two major port areas" as well as spillover load originating from the port
- ✓ The Group's 8th WTE facility in Hebei Province is a significant part of the Group's overall development strategy in Hebei

Added Recent Business Updates Wenling Organic Waste Project



4Q2018

- Construction of the Wenling Organic Waste Project started, signalling a start for the development of the ecological vein industrial park model
- ✓ A smart comprehensive waste disposal project designed with the latest best-in-class technology

Waste Treatment Capacity: 150 tons/day for kitchen waste + 20 tons/day for drainage oil + 50 tons/day for manure

Model: BOT

- ✓ Promotes sharing of resources and the development of the industrial ecological chain through harmless waste treatment and the transformation of waste into resources with WTE facilities as the operational core
- ✓ Brings into effect synergies to create a more economical and environmentally-friendly recycling ecological vein industrial park
- ✓ Attainment of zero emissions for the industrial park



Building a presence in India



Gurgaon project (In Construction)

Gurgaon integrated waste management project		
Location	Gurgaon, Haryana	
Area	27.83 acres	
Capacity	1,165 tons/day	9
Business Model	BOT model (22-year concession period)	
Waste Subsidies	WTE Facility before operation: 1000INR/ton (approx 100 RMB/ton*) WTE Facility in operation: 333INR/ton (approx 33RMB/ton*)	Lucknow project (In Preparatory stage)
On-grid electricity price	10.91INR/kWh (approx 1.091 RMB/kWh*) (fixed electricity price: 7.05INR/kWh & government subsidy: 3.86INR/kWh	
Collection Coverage ¹	60%	

Project Scope:

- Collection and transportation of MSW from households and businesses
- Pre-treatment and mechanical separation of MSW
- Treatment of biodegradable waste by composting
- Recycling and sale of waste materials
- Production and sale of Refuse Derived Fuel
- Power generation from combustion of Refuse Derived Fuel
- Operation and maintenance of a landfill for residual inert waste components

	Lucknow integrated	waste management project
	Location	Lucknow City, the capital city of Uttar Pradesh
	Area	104 acres
	Capacity	1500 tons/day
1	Business Model	BOT model (30-year concession period)
	Waste Subsidies	1,604 INR/ton (approx 160 RMB/ton*)
i dire	On-grid electricity price	7.5 INR/kWh
f	Collection Coverage ¹	45%

Gwalior project (In **Preparatory** stage)

5	Gwalior integrated waste management project		
J	Location	Gwalior, Madhya Pradesh	
nego	Area	63.75 acres	
1	Capacity	606 tons/day	
)	Business Model	BOT model (21-year concession period)	
	Waste Subsidies*	1,701 INR/ton (approx 170 RMB/ton*)	
	On-grid electricity price*	6.39 INR/kWh (average price) (approx 0.64 RMB/ton*)	
	Collection Coverage ¹	53%	

Foray into Latin America 📀





- High market potential for waste treatment
- Rising waste production levels and collection rates
- Current waste disposal method is landfill; no waste incineration and power generation facilities

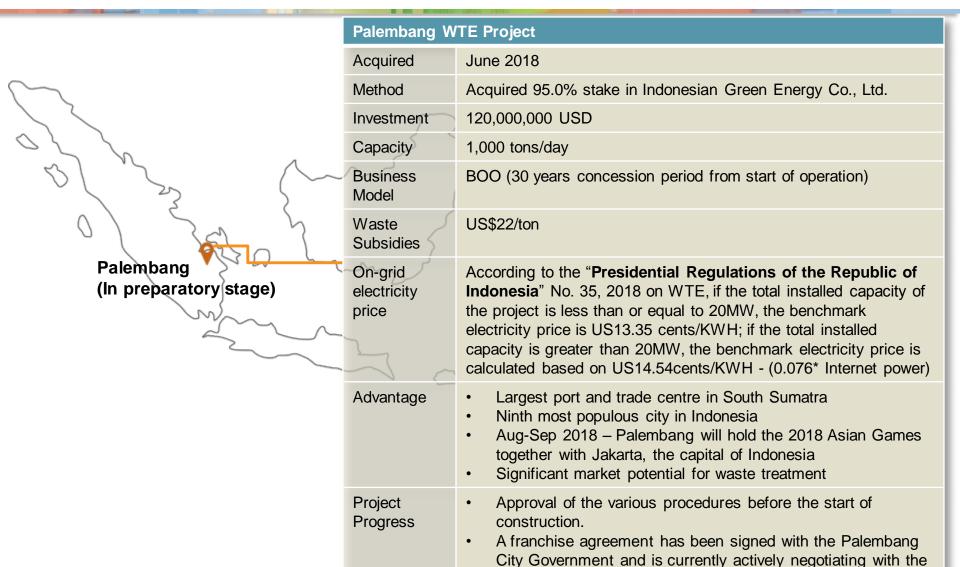
	, ,	۲_	
n	of	S	

Sao Paulo
(In preparation)
construction)

l	Barueri WTE Proj	arueri WTE Project		
۱	Location	Sao Paulo, most populated city in Brazil		
	Acquired	20 April 2018		
	Capacity	825 tons/day		
The second second	Business Model	BOT (commissioned in December 2020, 30-year PPP concession period, 15-year electricity trading concession period		
004	Waste subsidies	300 tons: about 117.7 real / ton (approx RMB196/ton*), the other 525 tons about 90 real / ton (approx RMB150/ton*), according to the annual inflation index price adjustment		
	On-grid electricity price	Electricity price in May 2018: R\$0.290/KW (approx RMB0.48/KW*), and annual price adjustment according to the price index of the five major power companies (PPA agreement purchase amount 11.5MW, 15 years)		
	Total Investment	360 million real (approx RMB600 million*)		
	Project Progress	 April 2018 - an investment agreement was signed with a local partner, affirming the relationship between the two parties. August 2018 - the establishment of the Brazilian investment platform company was completed. Loan application made to local banks 		

Latest Debut in Indonesia





Indonesian State Power Corporation to sign the PPA.

Latest Debut in Singapore Personal





Singapore MBT F	Project	
Contract	Contracted to provide EPC services and management of operations and maintenance to Singapore's 1 st MBT plant (5th in Asia)	
Owner of plant	MBT plant is owned by JE Synergy Pte Ltd (Joint Venture between Jinjiang Group and Eastern Green Power	
Project Duration	Until 31 March 2020	
Concession Period	20 years	
Capacity	500 tons/day	
Contract Sum	S\$66,563,000	



- ✓ A cornerstone of the Group's future overseas collaborations, supporting its plans to expand overseas and become a global leader in the WTE industry
- Ability to apply its capabilities and know-how honed from long track record of EPC projects
- Being the 1st MBT project in Singapore, it is a high-profile demonstration of JE Synergy Engineering's engineering and construction capabilities
- Builds credentials to secure similar EPC projects in future

Strong Management Team



Key management team members have more than 20 years of industry experience



Wang Yuanluo Non-Executive, Non-Independent Chairman Date joined: 1995

- > 20 years industry experience
- Executive President, China Environment Service Industry Association
- Vice President, China Association of Circular Economy
- President, Zhejiang Provincial Renewable Energy and Clean Production Industries Association



Zhang Chao Executive Director, CEO Date joined: 2017

- Responsible for overseeing day-to-day operations
- Deputy GM & general counsel to China Energy Conservation & Environmental Protection; executive director to China Energy Law Research Association; Vice President to China Industrial Energy Conservation & Clean Production Association
- Extensive industry experience of more than 15 years coupled with rich management expertise



Wang Wuzhong Deputy GM Date joined:1992

- Scope: environmental protection, safety, daily operation and R&D
- > 20 yrs industry exp
- Senior certified engineer
- Expert in China Asson of Comprehensive Resource Utilisation
- Member, Zhejiang Environmental Supervisory Association



Wang Ruihong Executive Director, Deputy GM Date joined:1999

- Scope: General admin management, market branding and legal compliance
- > 20 yrs accounting & corporate finance exp
- Registered Accountant
- Senior professional mgr for environmental protection



Xu Yongqiang CFO Date joined:1999

- 45 years accounting and financial management experience
- Rich experience with publicly listed companies
- Accountant accredited by the Hangzhou Intermediate Accountants Professional Committee



E Hongbiao Deputy GM Date joined:1992

- Responsible for supervising the construction and development projects and assisting in the operation and management of sewage and waste disposal
- More than 20 years of experience
- Hangzhou Human Resources and Social Security Bureau Economist Certification



Choo Beng Lor Financial Controller & Joint Company Secretary Date joined:2016

- Over 20 years of accounting experience
- Chartered Accountant, Singapore Institute of Chartered Accountants

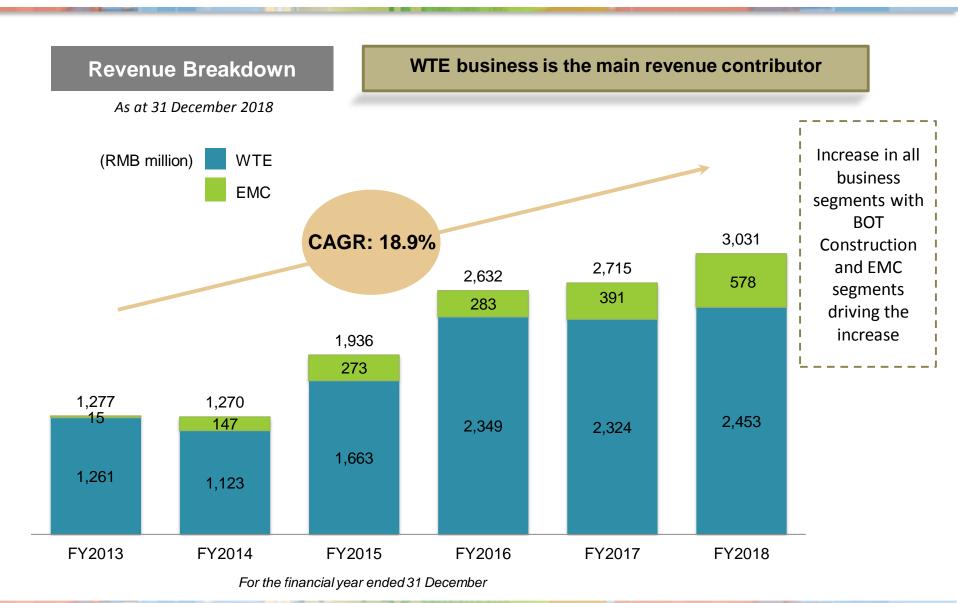


Financial Highlights



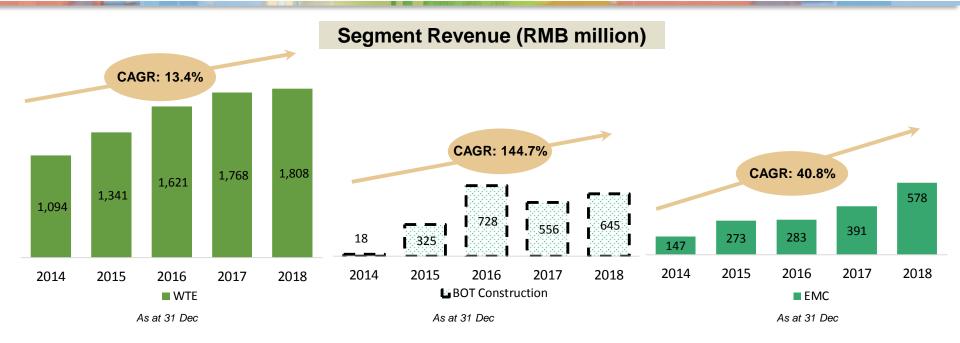
Achieving Strong Revenue Growth





Achieving Strong Revenue Growth





Slight growth in WTE revenue to:

- Commencement of waste collection and transportation operations in India
- ➤ Increase in steam supplied from Zhuji Bafang WTE Facility increased steam sales revenue
- Expansion and upgrading of eight power plants reduced revenue due to lower amount of waste treated and electricity generated

Strong BOT Construction Services performance due to:

- Addition of BOT construction projects including Wenling, Suihua, Kunming Wuhua and projects in India
- ➤ Financial income under the concession service increased by 29.8% year-on-year to RMB 37.76 million

Stellar EMC business performance due to:

- Project technical and management services income rose in tandem with an increase in contractual agreements
- Existing contracts of Hangzhou
 Zhenghui taken over in connection with its acquisition by the Group

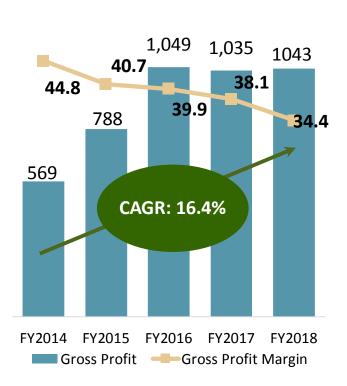
Stable Profitability

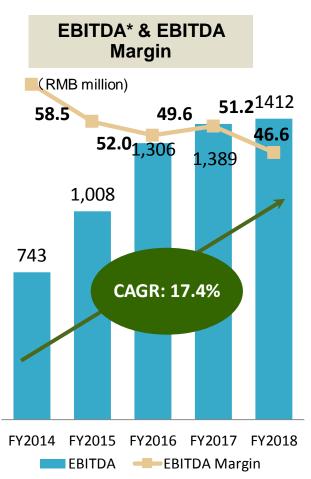


For the financial year ended 31 December



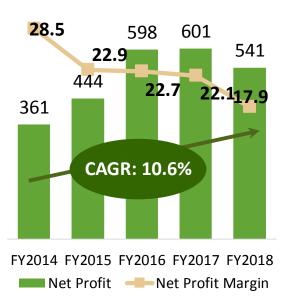
(RMB million)





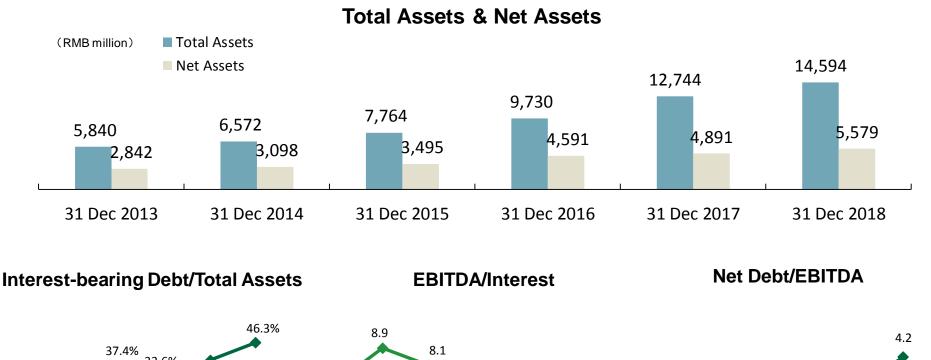
Net Attributable Profit & Profit Margin

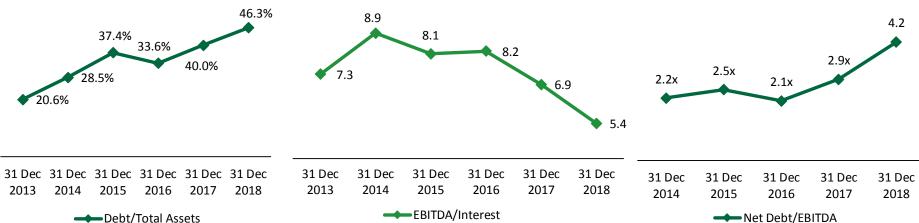
(RMB million)



Healthy Capital Structure

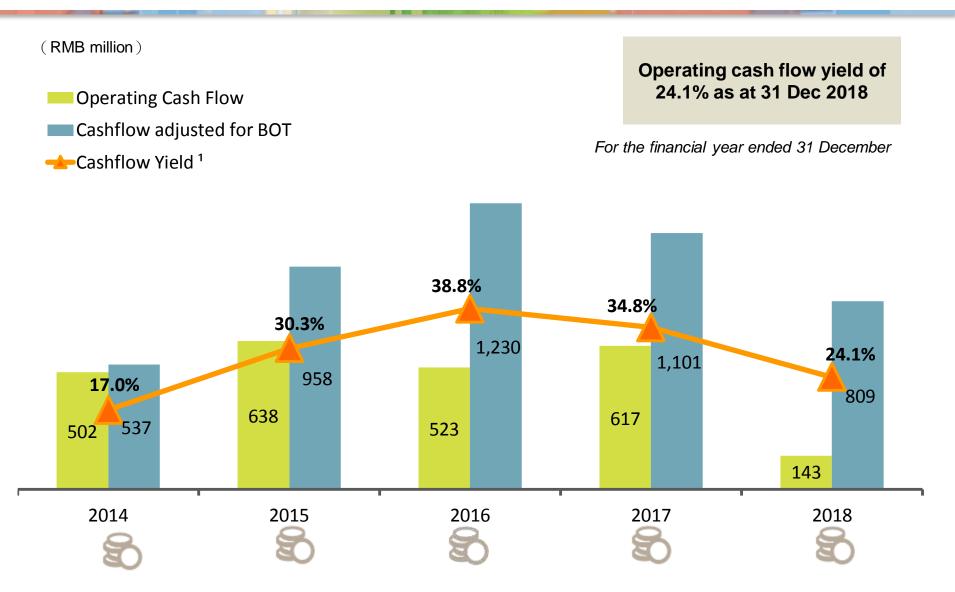






Healthy Operating Cash Flow







Growth Strategy



In the future, we will ...



1. Maintain leading market position

- Expanding waste treatment capacity of existing facilities
- Through organic and inorganic growth opportunities

4. Expand internationally

- Seeking project opportunities from the "Belt and Road Initiative"
- Specific focus on Southeast Asia and other developing countries
- Enhancing our brand image and international recognition

2. Continuously improve technical capabilities

- Adopting advanced pre-treatment technologies from Europe, in synergy with our own
- Enhancing operating efficiency and reduce emissions at our WTE facilities



3. Diversifying in the WTE value chain

- Expanding our WTE business to related areas such as sludge treatment
- Growing our EMC and third party project management businesses

1. Maintain Leading Market Position



3 main strategy pillars for capacity expansion and growth

Increase the capacity of waste treatment in existing facilities, and pursue organic growth



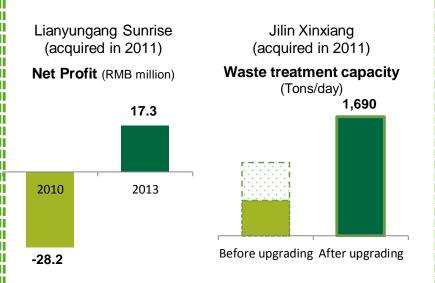
To achieve leaps and bounds when total installed WTE capacity reaches 67,256 t/d upon completion of all domestic and overseas expansion and upgrading projects

Enter underpenetrated regions and introduce CFB

- CFB technology suitable for newer, less developed markets where municipal solid waste has low calorific value and high moisture content
- Enhance brand recognition by local governments in new markets

Acquire underperforming facility with growth potential

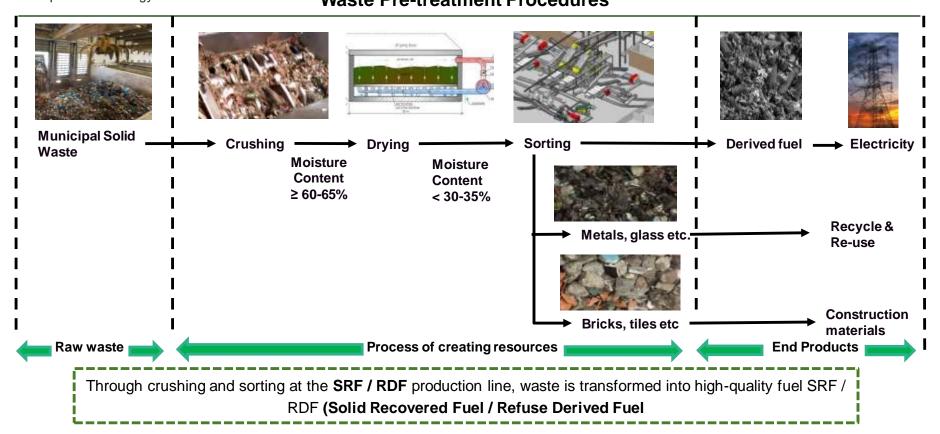
- Management restructuring
- Operational system improvement
- Technical upgrading



2. Continuously Improve Technical Capabilities



- > Introduce advanced pre-treatment technology from Europe, coupled with our own R&D
- > In January 2018, the company established a wholly-owned subsidiary, Waste Tec GmbH, in Solms, Germany, to combine waste drying and sorting technology with CFB technology, laying a strong foundation in the European Market
- > Raise operating efficiency and reduce emissions at our WTE facilities
- Improve operational efficiency through Moving Grade Technology and its related technology including overseas projects, 6 projects in preparation will adopt this technology
 Waste Pre-treatment Procedures



3. Diversifying in the WTE Value Chain



WTE

- > Expand the scope of WTE business to the relevant areas
- > Further develop EMC and third-party project management business

Potential diversification areas for WTE

1. Turning waste into resources

- Currently, there are 10 waste recycling projects
- Benefits from waste recycling projects
 - Taps opportunities in rising waste amount in various markets
 - Enhances quality of waste sent for WTE conversion
 - Adds to CJE's total waste treatment capacity



2. Sludge Treatment

Currently there are 5 municipal sludge treatment projects (Anhui Wuhu, Zhejiang Wenling, Heilongjiang Qitahe, Hebei Shijiazhuang, Shaanxi Yan'an); total capacity of 1,320 tons / day



3. Animal Carcass Treatment

➤ Invested in Wenling City's animal carcass treatment project in 2014; planned treatment capacity of 5 tons of treated carcass per day (1500 tons/year)



3. Kitchen Waste

➤ In 2018, the company invested in the construction of a comprehensive organic waste disposal project in Wenling City, with construction scale of 150 tons of kitchen waste. At the same time, it can coprocess 20 tons/day of drainage oil and 50 tons/day of manure



3. Develop EMC



EMC

- EMC complements the WTE business and can bring:
 - Business and operational synergies
 - Enhance management experience and expertise in the energy industry

≻ EMC

- High profitability
- Helps in business diversification from investment and operations to services

6 Under Construction





> As of 31 December 2018

34 EMC projects have been implemented

- 28 have achieved energy savings
- 6 projects are under construction and are expected to realise energy savings in 2019

42 Project Technical and Management Services have been implemented

4 newly signed EMC contracts

Added in 2018

- 8 EMC projects
- 18 Project Technical and Management Services

4. Expand Internationally



- ✓ Seeking project opportunities from the 'Belt and Road Initiative'
- ✓ Improve brand image and international reputation to be a world-class WTE management company
 - ➤ Riding on the "Belt and Road Initiative", to strive to internationalise its WTE business and establish demonstration projects in its investment countries.
 - > Prioritise its expansion in Asian countries (such as Indonesia, Vietnam, Malaysia and Singapore) and other developing countries.
 - Asian countries and other developing countries have waste characteristics similar to China (low calorific value) giving our differential-density CFB technology an advantage.
 - > We have developed relevant capabilities and have proven that we can make our technology adaptable for the processing and management of other types of waste.
 - > Created an overseas business division, with a focus on overseas expansion plans.

✓ Focusing on Asia and other developing countries

Jinjiang's plans in India's WTE market

- Acquired Ecogreen Energy to actively bid for WTE projects in India
- ➤ Secured 3 projects in 2017
- Promote our CFB technology and establish the first WTE plant using this technology
- Boost performance of our domestic engineering business through the WTE EPC contract
- Active explore more WTE contract opportunities

Foray into Latin America

- ➤ Invested a 51% stake in a Brazilian WTE company in April 2018
- Planned WTE capacity of 825 t/day
- First WTE and first Public-Private-Partnership WTE project in Brazil

Debut in Indonesia

- ➤ Secured a concession to construct and operate a WTE facility with a capacity of 1,000 tons/day in Palembang
- ➤ Significant market potential for waste treatment being the 9th most populous city in Indonesia



Thank You

