### FY2020 Results Corporate Presentation March 2021

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### **Important Notice**

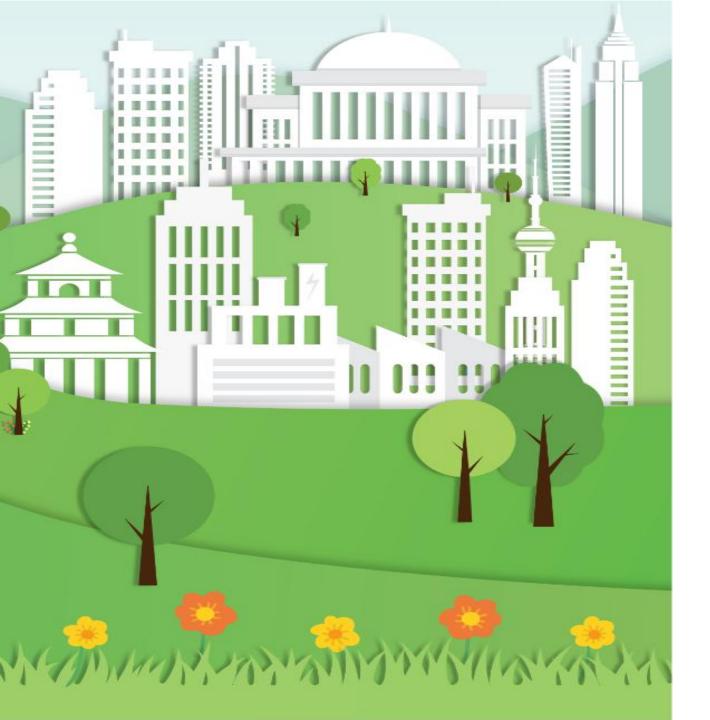
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# **Company Overview**



# **About Zheneng Jinjiang Environment**

- First mover and leader in PRC's Waste-To-Energy (WTE) industry, as well as one of the first WTE operators 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

### WTE BUSINESS

• Treatment of municipal solid waste and generation of steam and electricity

#### 3 main revenue streams:

- 1) Waste treatment fees (contracted with local government)
- 2) Sales of electricity (tariffs decided by central and local governments)
- 3) Sales of steam (fee decided by local government or company)
- Projects are ~65% Build-Own-Operate (BOO) model; ~35% Build-Operate-Transfer (BOT) model

### **EMC BUSINESS**

 Revenue from Provision of Energy Management Contracting (EMC) services to Metallurgical, chemical and power generation companies since 2014

#### Scope of services include:

- Energy saving and residual heat utilisation
- Operational optimisation and equipment selection advisory
- Management and operational support
- Technical advisory on energy saving

# **Extensive Network in China and Overseas**

### CHINA

22 WTE facilities\* & 1 Organic Waste Treatment project\* & 6 Resource Recycling projects in Operation In 13 provinces autonomous regions and centrallyadministered municipalities in the PRC

> 7 WTE facilities & 3 Resource Recycling projects Under Construction & Expansion

 15 WTE facilities & Kitchen Waste treatment projects
 1 Resource Recycling project in Preparation

> \*As at 31 December 2020, 15 of the 23 facilities operated in a BOO business model

### Current waste treatment capacity: 38,060 tons/day

When fully completed, total capacity to reach 63,206 tons/day

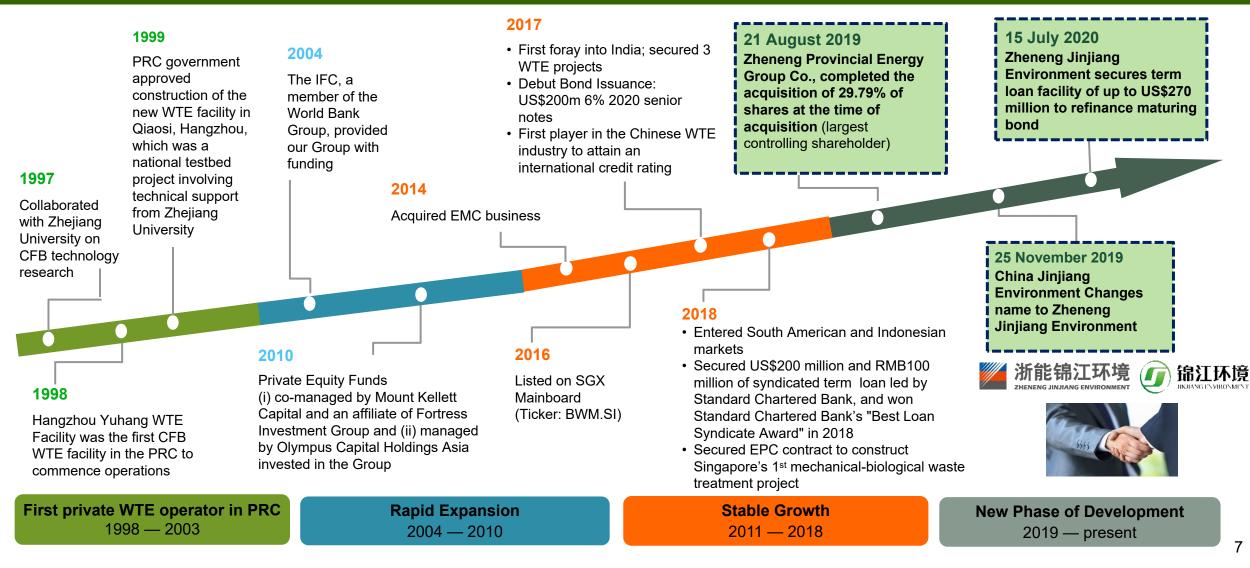
### **OVERSEAS**

Presence in India, Brazil & Indonesia

1 facility under Construction4 facilities In Preparation

### **Important Milestones**

### Established In 1998, with leading Waste-to-Energy (WTE) treatment capacity in the PRC



# About Zhejiang Provincial Energy Group Co., Ltd (Zheneng Group)

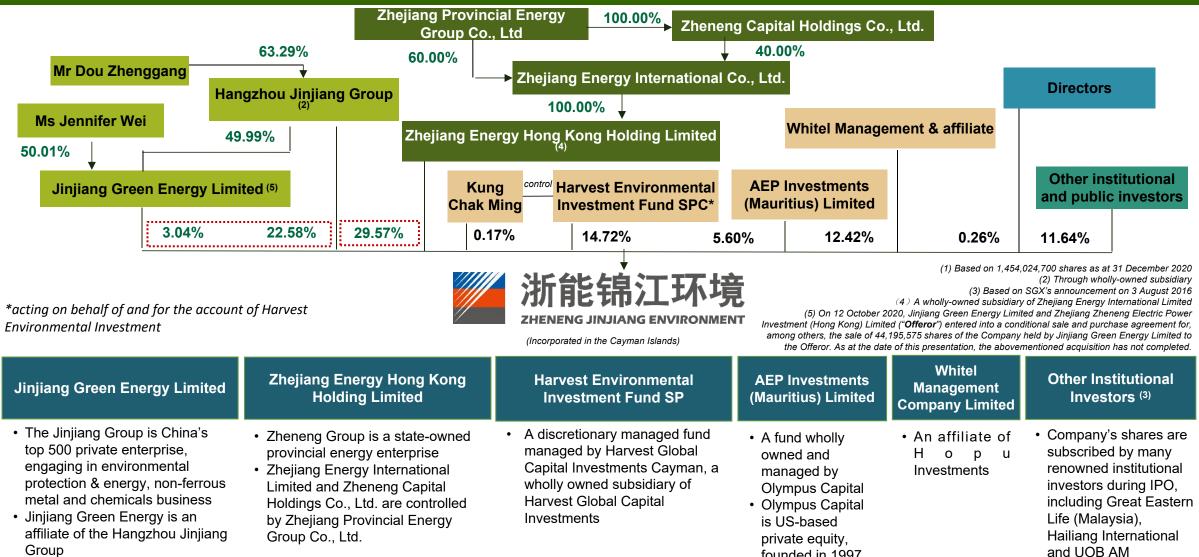




- State-owned provincial energy enterprise involved mainly in energy-related businesses
- Strong capabilities across the entire energy production value chain, with resources and strong financial expertise that will facilitate the Company's financing and future development.
- Manages more than 300 companies collectively
- In 2020, Zheneng Group supplied :
  - ~50% of the electricity power consumption
  - Nearly 40% of the total coal consumption
  - More than 75% of the total natural gas consumption in the Zhejiang Province
- In 2020, Zheneng Group achieved the following:
  - Electricity generation capacity: 136.8billion KWh
  - Coal supply: 64.06 million tons
  - Natural gas supply: 10.50 billion m<sup>3</sup> (including alternative transmission)
  - Crude oil trading volume: 7.16 million tons

# **Strong Shareholding Structure**

Strong Shareholder Background Provides Firm Support For Company's Development <sup>(1)</sup>



founded in 1997

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# **Strong Management Team**

· Responsible for environmental safety, daily operations, R&D and

Member of the Technical Committee of City and Environment

· Deputy Director, Environmental Protection Equipment and

Sanitation Standardization of the Ministry of Housing and Urban-

· Member of the Expert Committee of China Electric Power Federation

Technology Promotion Center, China Equipment Management

### Key Management Team Members Have More Than 20 Years Of Industry Experience

Wei Dongliang Executive Chairman, Executive Director, member of the Nominating Committee of the Company Date joined: 2019

- More than 20 years of corporate leadership and senior management experience in the energy industry
- Member of the Nominating Committee
- Served as the General Manager of Zheneng Capital Holdings Co., Ltd. and Zheneng Equity Investment Fund Management Co., Ltd
- Vice Chairman of Qianjiang Water Resources Development Co., a Chinese A-share listed company, and the Director of China Zheshang Bank since 2015

Wang Wuzhong Deputy GM Date joined:1992



Wang Ruihong Executive Director, Deputy GM Date ioined:1999

- Responsible for the implementation of overall business management, brand strategy and legal compliance
- More than 20 years of experience
- Zheijang Provincial Department of Finance certified accountant gualification
- · Senior Professional Manager of Environmental Protection

- - Over 20 years of experience in accounting and financial management in the energy industry
  - · Held roles in the power and petroleum divisions of Zheneng Group
  - · Accountant certification

Jin Ruizhi CFO Date joined: 2019



overall strategy

Rural Development

Association

· More than 20 years of experience

· Professor-level senior engineer

infrastructure management in the power industry Formerly Deputy general manager of Cixi Zhongke Zhongmao

More than 20 years' experience in production, technology and

Environmental Protection and Thermal Power Co., Ltd. and Deputy Director and Director of Engineering Department of Zhejiang Zhenhai Power Generation Co., Ltd

Qi Liang Chief Engineer Date joined: 2019

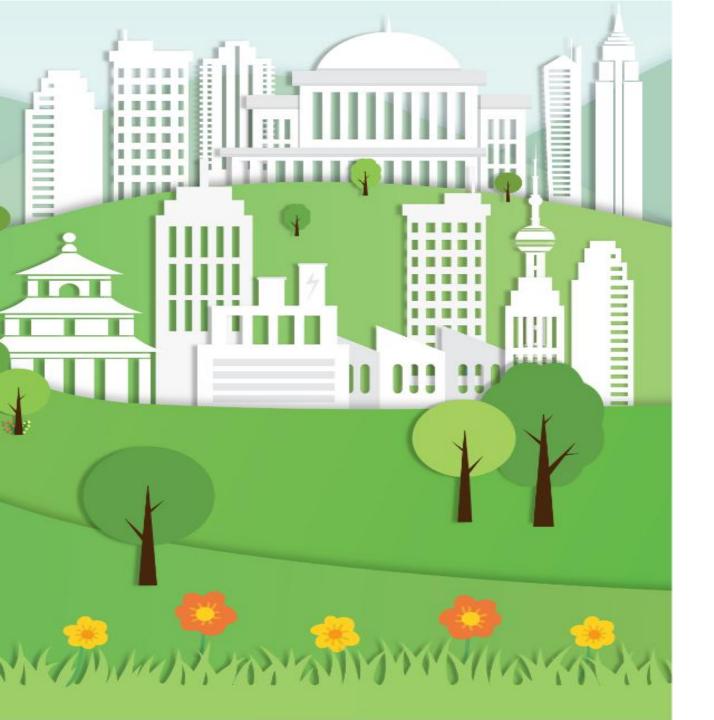


E Hongbiao

Deputy GM

Date joined:1992

- · Responsible for supervising the construction and development of the project and assisting in the operation and management of sewage and waste
- More than 20 years of experience
- Senior Economist, First-class Construction Engineer
- Hangzhou Human Resources and Social Security Bureau Economist Certification



# FY2020 Financial Overview



# **FY2020 Key Financial Overview**

FY2020 revenue decreased 20.4% year-on-year to approximately RMB 3,084.7 million



Key recurring income from core revenue contributor Waste-to-Energy Business recorded 10.6% growth to RMB2,443.1 million

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FY2020 gross profit fell 6.0% to RMB892.5 million, but gross profit margin rose 4.4% to 28.9%

PATMI increased 113.2% to RMB326.9 million

### **Results Overview**

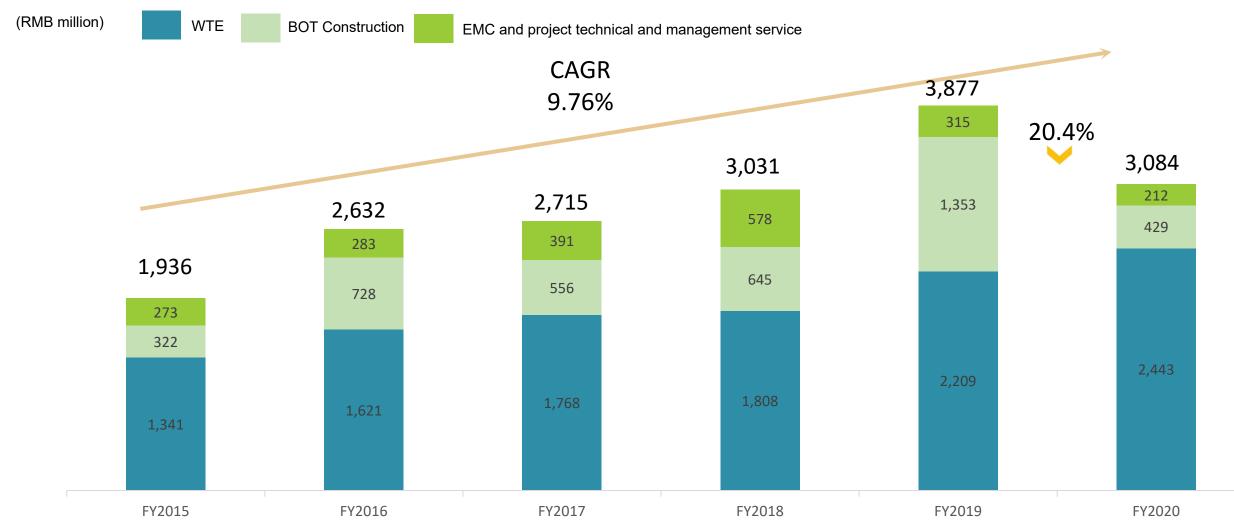
RMB million	FY2020	FY2019	Change (%)
Revenue	3,084.7	3,877.5	(20.4)
Including: WTE Business Revenue	2,443.1	2,209.2	10.6
Gross Profit	892.5	949.8	(6.0)
Profit Before Tax	477.7	306.2	56.0
Profit after tax attributable to owners of the Company	326.9	153.3	113.2

#### Changes in profit attributable to owners of the Company mainly attributable to:

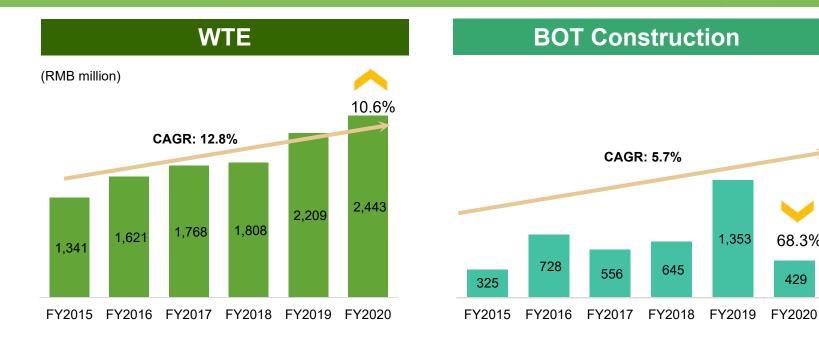
- FY2020 revenue decreased due to a decrease in revenue from construction services provided under BOT concession agreements and revenue from project technical and management services and EMC business, offset by an increase in revenue from the WTE business (excluding revenue from construction services provided under BOT concession agreements).
- Other income and other losses improved to RMB192.5 million in FY2020, mainly due to (1) an increase in the government grants and tax refund, (2) a decrease in write-off of property, plant and equipment, (3) decrease in government compensation for the closure of WTE Facilities, (4) increase in credit impairment losses of other receivables and prepayments, and (5) foreign exchange gains as a result of a strengthened RMB against USD

### **Revenue Overview**

### WTE Business Is The Main Revenue Contributor



### **Revenue Breakdown by Business Segment**



#### Steady growth in WTE revenue due to:

- · The Tangshan Jiasheng WTE Facility and the New Kunming Wuhua WTE Facility, which markedly increased the waste treatment capacity and boiler operation efficiency.
- Increase in revenue by the Group's other WTE facilities, including the upgrading and expansion of the Jilin Xinxiang WTE Facility and Wenling Green Energy WTE Facility, and the optimisation of power plant equipment management and some technological improvements.
- · The increase was offset by the decrease in revenue from the Zhuji Bafang WTE Facility due to decrease in demand in steam and decrease in revenue from the Group's Indian operation due to COVID-19.

#### BOT business revenue decreased due to:

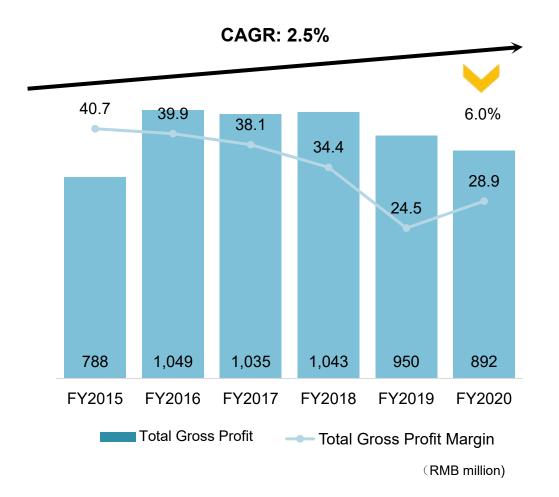
• Decrease in revenue from the provision of construction services under BOT concession agreements in FY2020

68.3%

429

 Substantial portion of the construction of the New Kunming Wuhua WTE Facility (which was put into operation in the first half of FY2020) having been carried out in FY2019. Therefore, the investment in the New Kunming Wuhua WTE Facility and Linzhou Jiasheng WTE Facility decreased in FY2020 as compared to FY2019

# **Gross Profit & Gross Profit Margin**



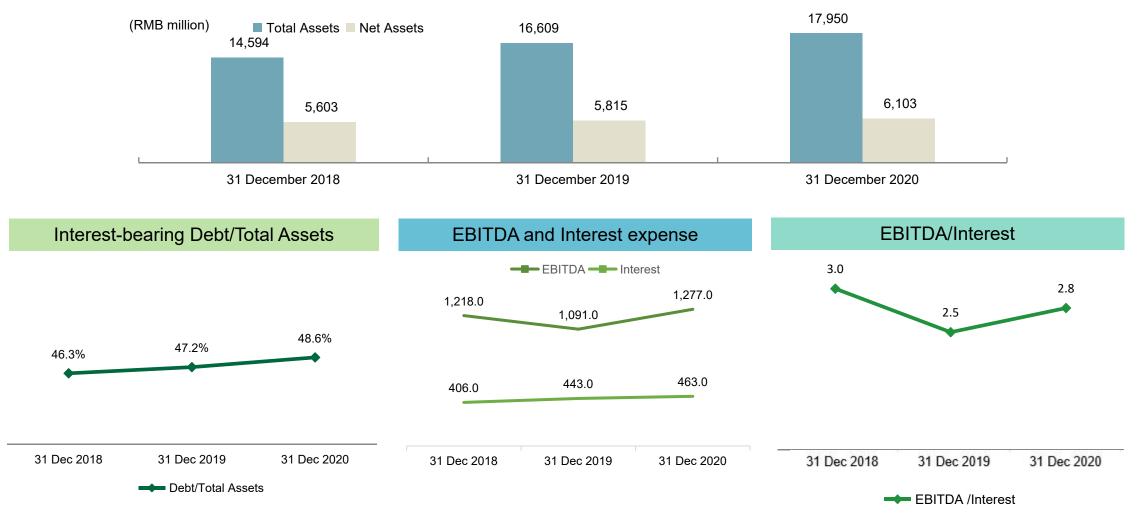
Segmental Gross Profit (RMB million)	FY2020	FY2019	Change
WTE	712.4	616.3	15.6%
BOT Construction*	97.1	208.5	-53.4%
EMC Business	83.0	125.0	-33.6%

Segmental Gross Profit Margin	FY2020	FY2019
WTE	29.2%	27.9%
BOT Construction*	13.7%	12.7%
EMC Business	39.1%	39.7%

\*Including financial income under service concession agreements

## **Capital Structure**

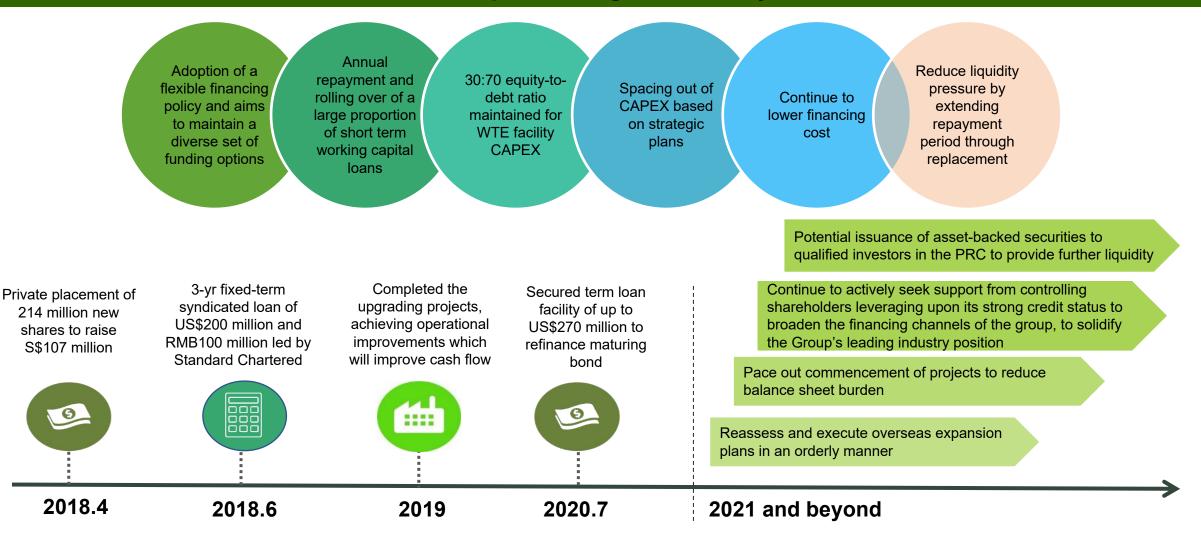
**Total Assets & Net Assets** 



\* EBITDA excludes BOT profit, exchange and non-recurring profit and loss

# **Prudent Capital Management**

### **Our Capital Management Policy**



# Secures up to US\$270 million Term Loan Facility

Secured a US dollar syndicated term loan facility of up to US\$270,000,000 (the "Facility") under a facility agreement ("Agreement") with Standard Chartered Bank (Hong Kong) Limited as original mandated lead arranger and bookrunner and agent of the finance parties on 14 July 2020

The annual rate of interest under the Facility is the aggregate of (a) 1.92% per annum and (b) the London interbank offered rate ("LIBOR"). If LIBOR is below zero, it will be deemed to be zero

The amounts borrowed under the Facility will be used for the general corporate purposes of the Group and the refinancing of the US\$200,000,000 in aggregate principal amount of 6.0% senior unsecured notes that matured on 27 July 2020





# FY2020 Operational Highlights



# **COVID-19 Updates**

### **Impact on Business**

- ❑ As of the fourth quarter of year 2020, the Company has preliminarily recovered from the impact of the COVID-19 pandemic, and the amount of waste treated, and electricity generated and supplied has increased as compared to the same period in the previous year
- The Group received a total of RMB24.3 million in subsidies in FY2020 associated with the COVID-19 pandemic
- Increase in prices of certain raw materials in the first half of 2020, but no significant disruptions to supply

### **Impact on Operations**

- Group's WTE and other facilities in the PRC have maintained steady operations in FY2020.
- The Group's project construction is progressing on schedule in an orderly manner.
- □ Local government is supportive of the continued operations of the Group's WTE facilities and there has been no adverse media reports.

- At the beginning of 2021, there were outbreaks in multiple local areas in China, bringing uncertainty to the continued economic recovery.
- Overall, the impact on the economy remains manageable. At present, China has made substantial progress in controlling the pandemic, and there are no longer any medium and high-risk areas. The economic operations of most areas in the PRC are generally stable.
- Closely monitor the COVID-19 situation and will take preventive and control measures in strict accordance with the requirements of the local government



Two WTE facilities in Wuhan received a letter of appreciation from the government for all-round excellence in the timely treatment of waste and avoidance of any secondary transmission

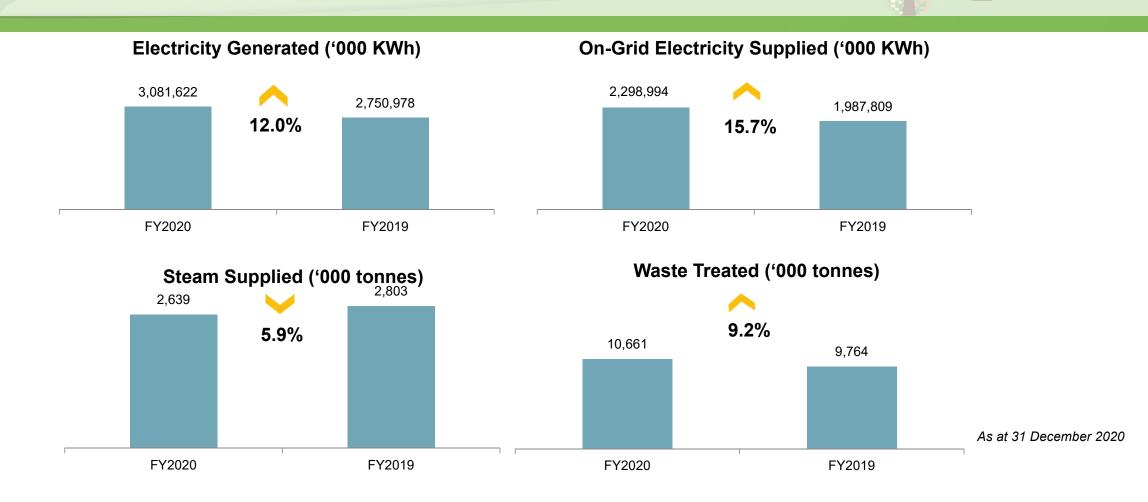




Wuchang WTE facility

Hankou WTE facility

# **Operational Analysis**



- On-grid electricity supplied and waste treated increased mainly due to the new Tangshan Jiasheng WTE Facility and the New Kunming Wuhua WTE Facility and the increase in waste treatment capacity and higher boiler operation efficiency following the completion of the expansion and upgrading work of the Wenling Green Energy Facility and Jilin Xinxiang WTE Facility
- Excluding waste collection and transportation operations in India, waste treated increased by 11.0% in FY2020 as compared to FY2019
- The decrease in steam supplied is mainly due to the decrease in demand experienced from by the Zhuji Bafang WTE Facility as a result of the COVID-19 pandemic

# Extensive Portfolio in the PRC with Growing Overseas Footprint

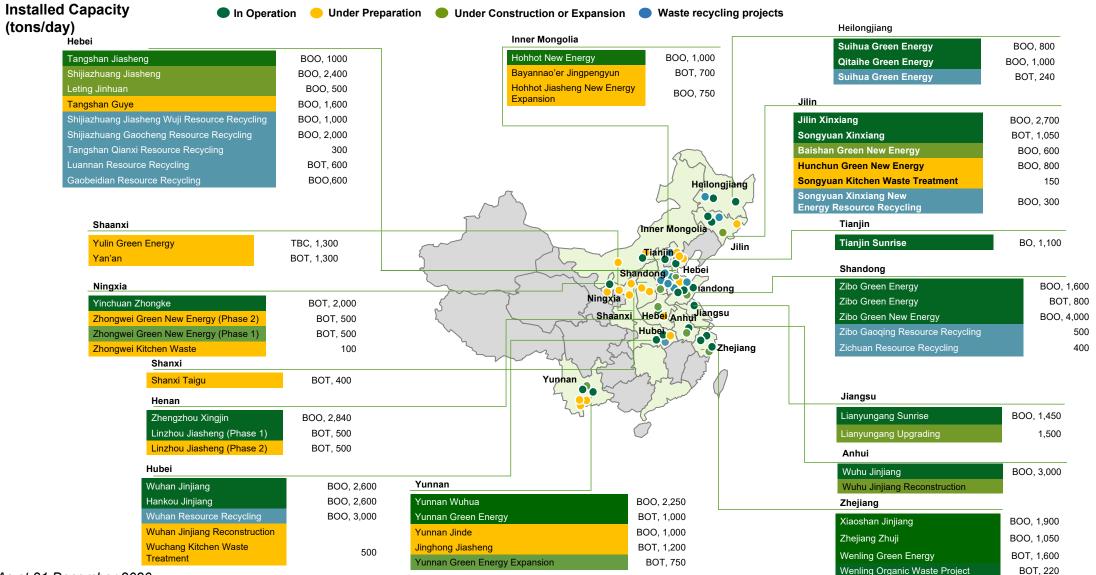
计	浙能锦江环境 Zheneng Jinjiang Environment			ent		
		Total Capa	acity	63,206 to	ons/day	
China Projec	cts			India Projects		
lo. of	Project Category	Capacity		No. of Projects	Project Category	Capacity
projects 23	Operational	38,060 tons/day		2	In the Preparatory Stage	2,106 tons/day
	•			1	Construction	1,165 tons/day
-	Construction & Expansion	6,250 tons/day		Total		3,271 tons/day
	In the Preparatory Stage	10,800 tons/day		Brazil Project		
	Resource recycling	-		No. of Projects	Project Category	Capacity
-	projects in Operation, under	5,000 tons/day	1	In the Preparatory Stage	825 tons/day	
Construction & Expansion and in the Preparatory Stage		Total		825 tons/da		
	_		Indonesia Proj	ect		
Total		58,110 tons/day	_	No. of Projects	Project Category	Capacity
				1	In the Preparatory Stage	1,000 tons/da

Total

As at 31 December 2020

1,000 tons/day

# **China – Our Extensive Footprint**



As at 31 December 2020

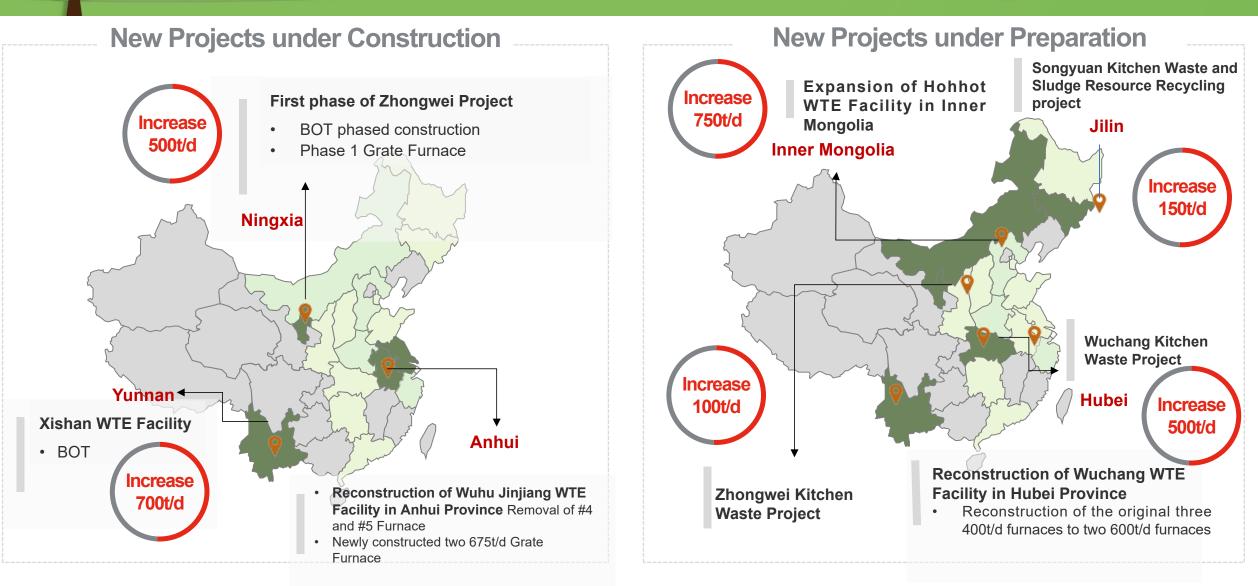
### **FY2020 Operational Updates**

In FY2020, the Group's project construction proceeded in an orderly manner in accordance with the set plan.

### Key updates below:

- The Group's waste treatment capacity increased by 1,000 tons/day, due to the first phase of the Linzhou Jiasheng WTE Facility in Henan Province, the second phase of the Tangshan Jiasheng WTE Facility in Hebei Province and the Qianxi Resource Recycling Project in Hebei Province being put into trial operation in the fourth quarter of 2020
- Expansion project of the Xishan WTE Facility (BOT) in Yunnan Province officially started construction in the fourth quarter of 2020
- The Shijiazhuang Jiasheng WTE Facility (BOO) in Hebei Province, the Baishan Green New Energy WTE Facility (BOO) in Jilin Province, the Leting Jinhuan New Energy WTE Facility (BOO) in Hebei Province, the Wuhu Luzhou WTE Facility (BOO) in Anhui province, the Lianyungang Sunrise WTE Facility (BOO) in Jiangsu, the first phase of the Zhongwei Project (BOT) in Ningxia, the Wuji Resource Recycling Project (BOO) in Hebei Province, the Gaocheng Resource Recycling Project (BOO) in Hebei Province, the Gaocheng Resource and Songyuan Resource Recycling Project (BOO) in Jilin Province are expected to be completed and put into operation in 2021
- The Jinghong WTE Facility (BOT) in Yunnan Province and the Wuchang WTE Facility (BOO) in Hubei Province are expected to commence construction in 2021

### **FY2020 Operational Updates**



# **Government Subsidies**



WTE Facilities	Location	Date of inclusion
Hohhot New Energy WTE Facility	Inner Mongolia	September 2020
Jilin Xinxiang WTE Facility	Jilin Province	October 2020
Songyuan Xinxiang WTE Facility	Jilin Province	
Gaomi Liliangmingde WTE Facility	Shandong Province	
Wuhu Jinjiang WTE Facility	Anhui Province	November 2020
New Kunming Wuhua WTE Facility*	Yunnan Province	
Zibo New Energy WTE Facility*	Shandong Province	
Yinchuan Zhongke WTE Facility	Ningxia Hui Autonomous Region	February 2021

\*The New Kunming Wuhua WTE Facility in Yunnan Province and Zibo New Energy WTE Facility in Shandong Province were new projects in FY2020 and were included in the 2020 National Renewable Energy Development Fund's 1.5 billion biomass power generation subsidy budget.

# – National High-Tech Enterprise Award

### Ten subsidiaries were awarded the "National High-Tech Enterprise" certification

Awarded by the respective Provincial Departments of Science and Technology (省级科学技术厅), Provincial Departments of Finance (省级财政厅) and Taxation Bureau of the State Administration of Taxation (国家税务总局省级税务局).

FY2019

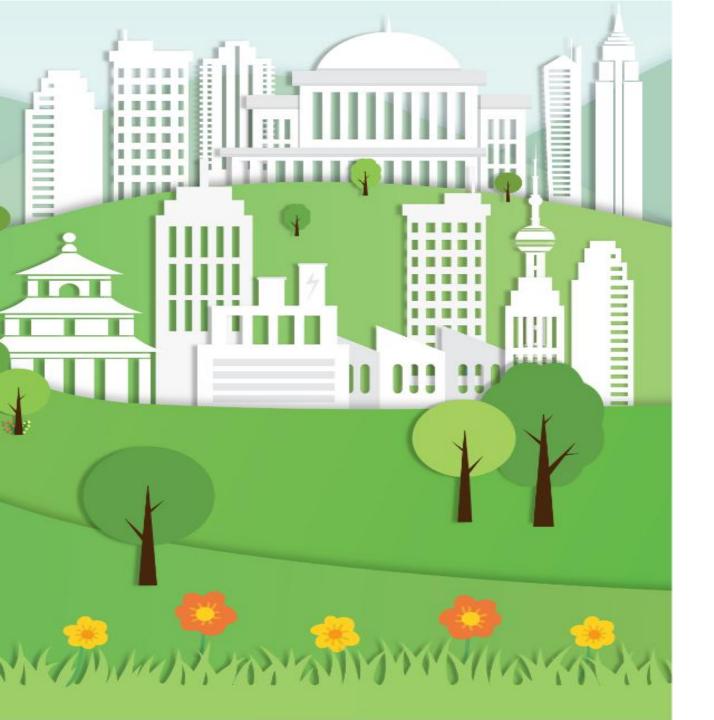
- Hangzhou Kesheng Energy Technology Co., Ltd
- Yunnan Green Energy Co., Ltd
- Kunming Xinxingze Environment Resources Industry Co., Ltd.
- Wuhan Green Environmental Protection Energy Co., Ltd.
- Wuhan Hankou Green Energy Co., Ltd.

FY2020

- Wuhu Lüzhou Environment Energy Co., Ltd
- Suihua Green New Energy Co., Ltd.
- Wenling Green New Energy Co., Ltd.
- Zhejiang Zhuji Bafang Thermal Power Co., Ltd.
- Zhejiang Shengyuan Environmental Analysis Technology Co., Ltd.

- Affirmation of the Group's continuous efforts in technological innovation, transformation of technological achievements
- Recognition of the Group's core independent intellectual property rights
- Accredited as "national key scientific and technological enterprises" and will enjoy preferential corporate income tax rates





# **Growth Strategy**



# In the future, we will work to...

### 1. Maintain leading market position

- Expanding waste treatment capacity of existing facilities and pursue capacity increment
- Seeking organic growth through new project opportunities
- Seeking inorganic growth through M&A 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

- Localisation of advanced pre-treatment technologies from Europe, in synergy with our own
- Enhancing operating efficiency and reduce emissions at our WTE facilities
- Further develop and promote Artificial Intelligent ("AI") control technology

### 3. Diversify within the WTE value chain

- Expanding our WTE business to related synergistic areas such as sludge treatment, kitchen waste treatment
- Promote the expansion of collaborative recycling business, and actively explore technical routes and project development for urban solid waste treatment such as slag and construction waste

# **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 capacity increment ..... Develop the advantages of capacity and explore the room for increment



- Integration of Circulating Fluidized Bed technology and moving grate technology, suitable for the waste treatment at different markets
- Enhance brand recognition by local governments in new markets

### Acquire underperforming facility with growth potential

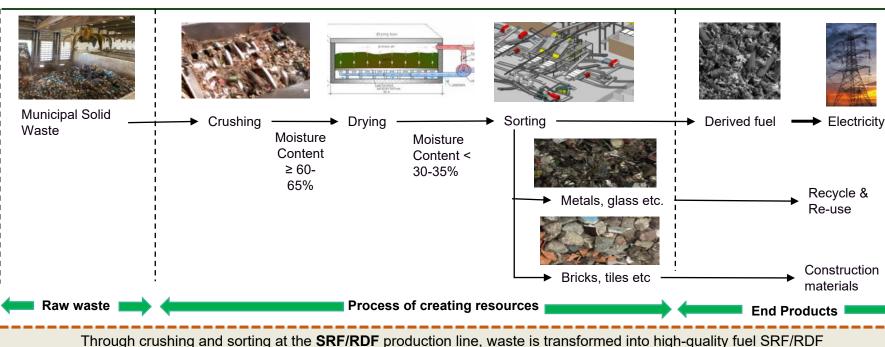
- Management restructuring
- Operational system
   improvement
- Technical upgrading



# 2. Continuously Improve Technical Capabilities

- Localised advanced European pre-treatment technology, coupled with own Research & Development and completed the promotion and application at Linzi WTE Plant in Zibo City (in operation) and Shijiazhuang Jiasheng WTE Facility in Hebei (in construction)
- Improve operational efficiency and reduce emissions at our WTE facilities
- Combine grate and own technology to raise processing efficiency 6 technologies will be used at home and abroad

Taking a foothold and laying a good foundation for further development of the European environmental market: In January 2018, the Group established a wholly-owned subsidiary, Waste Tec GmbH, in Solms, Germany, to combine waste drying and sorting technology with CFB technology to provide the Group's environmental protection market in Europe



(Solid Recovered Fuel/Refuse Derived Fuel

#### **Waste Pre-treatment Procedures**

# 3. Diversify Within the WTE Value Chain

### Expand the scope of WTE business to the relevant areas

### Potential diversification areas for WTE

1. Turning waste into resources	2. Sludge Treatment	3. Animal Carcass Treatment		
<ul> <li>Currently, there are 11 waste recycling projects</li> <li>Benefits from waste recycling projects <ul> <li>Taps opportunities in rising waste amount in various markets</li> <li>Enhances quality of waste sent for WTE conversion</li> <li>Adds to ZJE's total waste treatment capacity</li> </ul> </li> <li>Currently, there are 6 urban sludge treatment projects (Wuhu, Anhui, Wenling, Zhejiang Qitaihe, Heilongjiang, Shijiazhuang, Hebei, Yan'an, Hebei, Gaobeidian)</li> <li>Total construction scale of 1,370 tons/day.</li> </ul>		<ul> <li>Invested in Wenling City's animal carcass treatment project in 2014</li> <li>Planned waste treatment capacity: 5 tons of treated carcass per day (1500 tons/year)</li> </ul>		
		<ul> <li>4. Kitchen Waste</li> <li>The Wenling Organic Waste Comprehensive Disposal Project is under construction and phase 2 expansion</li> <li>Planned waste treatment capacity: 150 tons/ day of kitchen waste, 20 tons/ day for drainage oil and 50 tons /day for manure</li> </ul>		

# 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 (e.g. Indonesia, Vietnam, Malaysia and Singapore) & 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
- Ecogreen's annual waste transportation volume is 1 million tonnes

#### Foray into Latin America

- Invested a 51% stake in a Brazilian WTE company
- 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 9<sup>th</sup> most populous city in Indonesia

