

Likeng II - Guangzhou, China

VØLUND™ WASTE-TO-ENERGY TECHNOLOGY

PROJECT CASE HISTORY

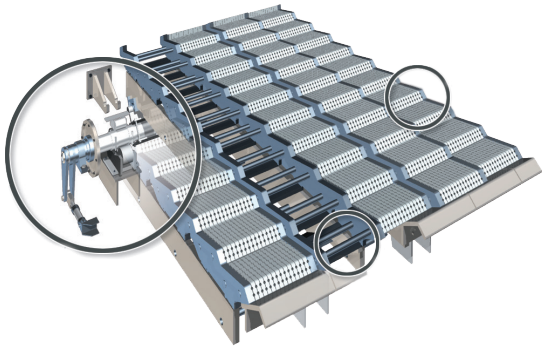


Babcock & Wilcox Renewable's (B&W's) license partner Grantop (Guangzhou Environment Protection Investment Co. Ltd.) has completed the Likeng II waste-to-energy plant in Guangzhou, China.

The plant is one of the largest Chinese waste-to-energy plants, and is specifically designed for Chinese waste. This includes waste characteristics of high moisture and low calorific value.

The Likeng II plant has three lines, each with 750 tonnes waste capacity per day, and each featuring Vølund™ Technology engineering design and key components.

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The Vølund grate

B&W's Vølund air-cooled grate is a longitudinal beam grate – a thoroughly proven design, highly suitable for continuous high-efficiency combustion of mixed household and bulk industrial waste with minimal emission of harmful substances and maximum energy recovery.

The beam grate is of a robust design, specifically developed for heavy-duty and high-temperature operation with high availability and operational reliability, thus ensuring minimal shutdown for routine maintenance and cleaning.

- Minimum emission of harmful substances and maximum energy recovery
- High availability and operational reliability with minimal downtime
- Perfect air distribution and minimal power consumption
- Combustion of all types of waste
- High thermal efficiency
- Handling of unsorted waste
- Low total organic carbon in ash content
- Possibility of biomass co-firing

Scope of supply

- Basic design of boiler including technical assistance for construction and commissioning, a review of the boiler detail design and functional description for the DCS
- Air-cooled Vølund grate
- Waste charging system with a feeding damper
- Feeding chute and feeding pusher
- Slag pusher
- Construction and commissioning advisors



Grate blok

Data plant design

Process Parameters	Values	Units
Waste capacity	3 x 31.3	t/h
Heat value, lower	6.8	MJ/kg
Steam output	3 x 63	t/h
Steam temperature	400	°C
Steam pressure	40	bar
Gross electric output	2 x 25	MW
Feed water temperature	130	°C

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