Factsheet
Baoan Waste-to-Energy Facility, Shenzhen

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1. Baoan WTE Facility
2. Keppel Seghers in China
3. Waste-to-Energy
Baoan is a district of Shenzhen.
Shenzhen is located in Guangdong Province (directly north of Hong Kong), China.
Shenzhen is known as China’s Silicon Valley.
Baoan Waste-to-Energy Facility

- Upon completion of Phase III, the Baoan WTE facility will be the largest in the world in terms of incineration capacity.
- The facility is owned and operated by Shenzhen Energy Environment Engineering.
- Keppel Seghers and Shenzhen Energy Environment Engineering started their collaboration in 1999. To date, the company has awarded 18 WTE lines to Keppel Seghers.
- The WTE technology employed in Baoan Phase III is among the most advanced in the world.
- The operational lines at the Baoan WTE facility are world-class in terms of performance and reliability.
- Baoan Phase II was conferred China’s prestigious national high quality project gold award in 2014. It was the first project in Shenzhen to win the award.
The Baoan WTE facility’s waste processing capacity is three million tonnes per year.

Piling up the waste processed by the plant over that period on a soccer pitch will result in a 2km high tower.
The Baoan WTE facility’s waste treatment capacity is 2.3 X the total operational WTE capacity in Flanders (Belgium).
Every hour, the facility receives 46 waste trucks
Baoan Waste-to-Energy Facility

Energy production
1,000,000 citizens
4,000,000 light bulbs (40 W each)
Equivalent to 700,000 tonnes of coal / year
CO₂ reduction
2,000,000 tonnes / year
Keppel Seghers in China
Keppel Seghers in China

- Keppel Seghers is the leading provider of imported WTE solutions in China.
- Keppel Seghers’ proprietary technology powers 56 WTE lines in China.
- Keppel Seghers’ business model in China is to supply the core equipment of the plants. The non-core components are sourced locally according to the design of Keppel Seghers.
Treated Waste
- 10 000 000 tonnes / year
- 20 000 000 citizens
- 24 bags of waste / second

Energy Produced
- 3 000 000 citizens
- 13 000 000 light bulbs (40W each)
Waste-to-Energy
Waste-to-Energy

- WTE is the most environmentally friendly method of processing residual waste since it reduces land occupation (landfilling) and provides a meaningful outcome for waste (=energy production).
- Forms an essential part of a sustainable waste management chain.
- Fully complementary to recycling by recovering energy from unrecyclable waste.
- Recovers significant amounts of ferrous and non-ferrous metals.
- Removes toxic substances from the eco-cycle.
- Generates valuable and sustainable electricity and heat, of which 50% is recognised as renewable, and the other 50% is derived from recovered energy sources that would be lost otherwise.
- Reduces carbon footprint of human activities thanks to: a) reduced methane emissions from landfill (methane has 28x higher global warming potential than CO₂), b) offsets the use of fossil fuels for energy production and c) recovery of materials.
- Allows up to 95% landfill diversion rate.
- Helps diversify energy sources and increases independence of energy supply.
- Reliable European technology from Keppel Seghers.

Source = European Suppliers of Waste-to-Energy Technology, www.eswet.eu

More information about WTE
www.youtube.com/watch?v=_7SsOuGwUKQ
www.eswet.eu
General Information

Keppel Seghers
www.keppelseghers.com

Shenzhen Energy Environment Engineering (owner of the Baoan WTE Facility)
www.seeccn.com.cn/Enbusiness.html

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