

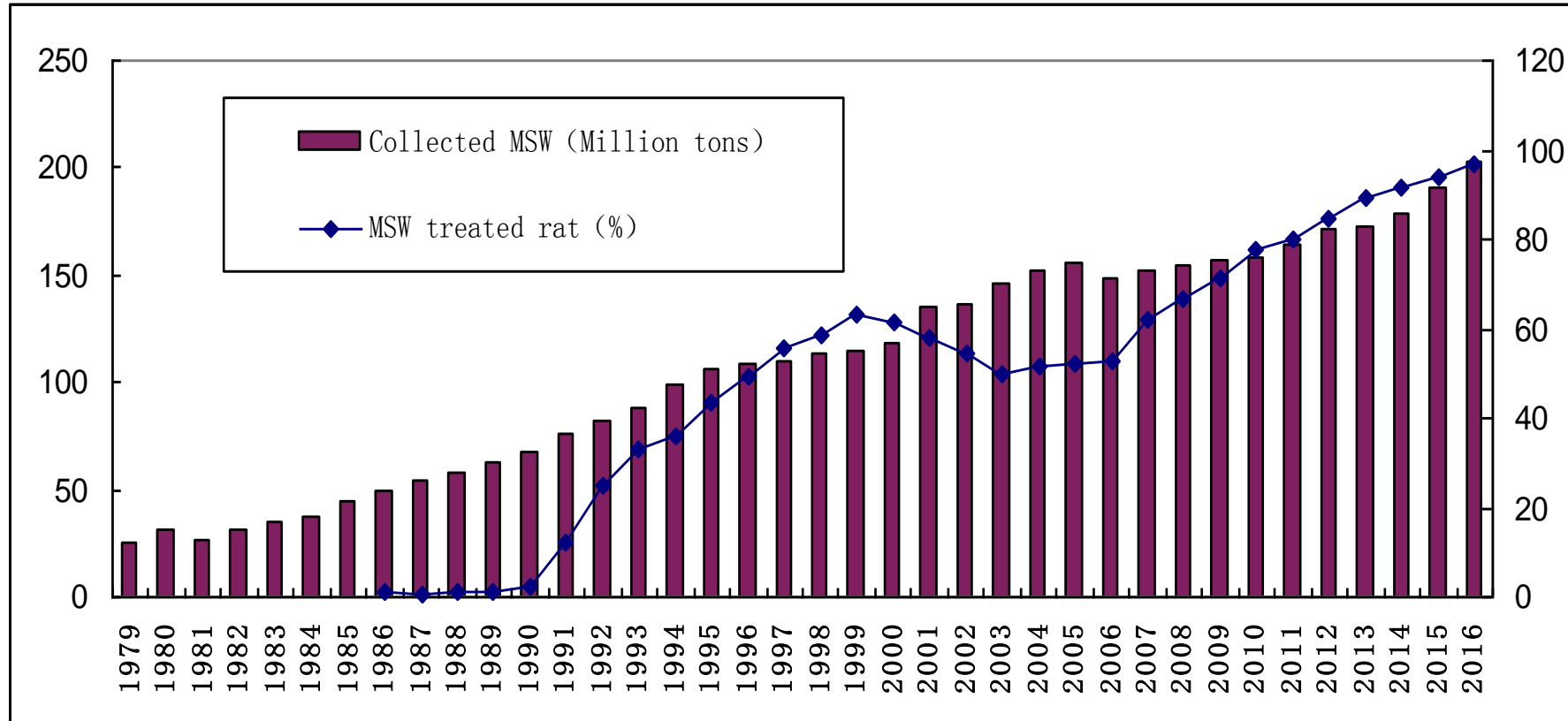
Current situation and experience of waste to energy in China



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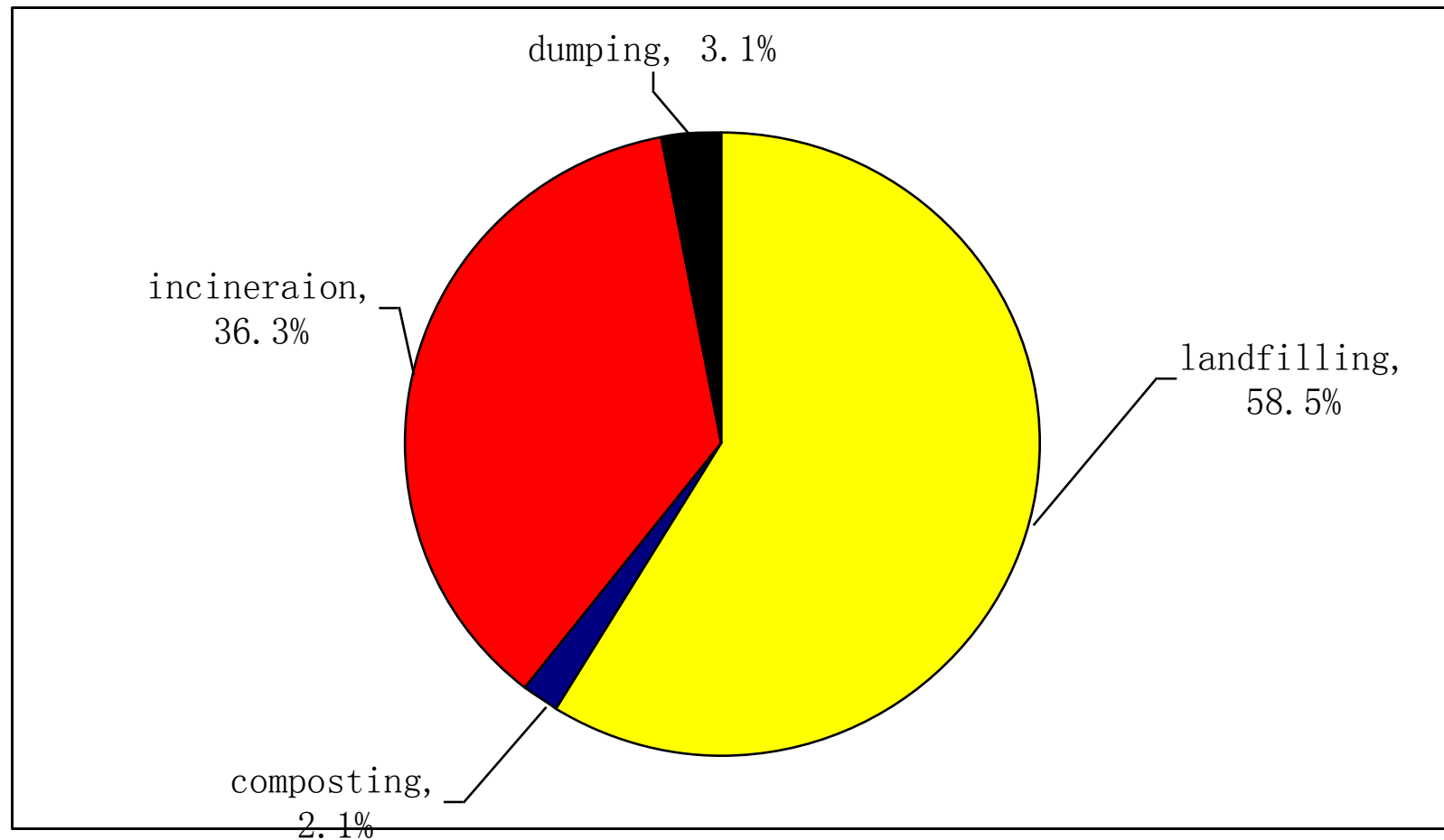
**China Urban Construction Design
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The current situation of MSW Treatment in China



In 2016, approximately 203 million metric tones of MSW were removed in more than 600 cities across the main land of China, To be clear, this is the quantity of waste for disposal after recycling.

MSW (after material recycling) Treatment Rate in 2016



The rapid development of MSW incineration – After 2000, more and more WTE facilities have been built up.

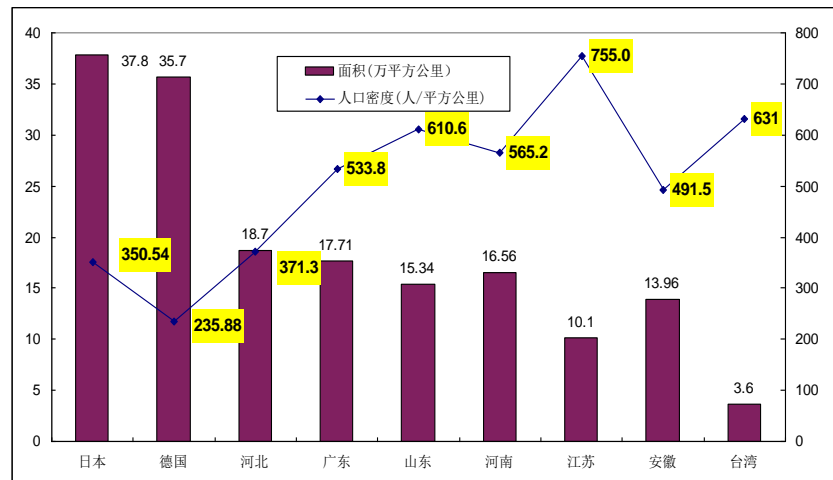
In 1985, Shenzhen imported a complete set of 150 tons / day waste incinerator from MITSUBISHI Heavy Industry Co., Japan, with two daily handling capacity of 150 tons per day. In November 1985, it started working in June 1988. It was put into operation in November 1st of the same year. It became the first modern waste incineration plant in China.

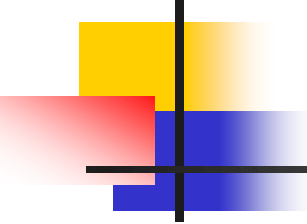
The second WTE plants were put into operation in 2000 in Zhuhai City in Guangdong Province.



The development MSW incineration(waste to energy)

- Rapid development of waste incineration
- The Nimby (not in my backyard) effect of anti - waste incineration plant is also developing.





By the end of 2017, the total WTE plants in operation is about 303 in mainland, the total processing capacity is 304 thousand tons / day, the total installed power capacity is about 6280MW. There are 220 WTE plants with grate and with a total capacity of 228 thousand tons / day, and the installed power capacity is 4380MW.

	Technology type	Num.	Design capacity (1000t/d)	E-Power (MW)
WTE plant	Grate furnace	220	228	4380
	CFB	83	76	1900
	Subtotal	303	304	6280



④ Support the development of MSW incineration with the power generation income

Notifications of the State Development and Reform Commission on improving the price policy of waste incineration power generation (price of reform [2012] No. 801)

Further regulating the price policy of waste incineration power generation

The waste incineration power generation project based on the amount of waste disposal in the waste to energy plant. For each ton of MSW, it is subsidized maximum 280 KWh. And carrying out the national unified waste generation benchmark tariff of 0.65 Yuan RMB/ KWh (including tax and the same); The rest of electricity is according to the price of electricity from local coal-fired generators.

Changes in Waste Management Solutions to Modern incineration instead of landfill treatment

Major changes for Haikou City MSW treatment:

- Composting treatment in 90s of last century
- Sanitary landfill treatment
- Incineration power generation





Major Policies that made Waste to Energy Market

Ecological civilization:

Waste 3 Strategies : Reduction

Recycling

Harmlessness Treatment

MSW recycling rate will reach 35% by 2020

Source separation is promoted in nationwide

Beautiful Countryside:

Focus : Improve human settlement environment:

MSW collection service will cover 90-100% population by 2020

Sanitary toilet will cover 85% population by 2020