Waste to Energy system

Characteristics

Hitachi Zosen has engaged in the construction of 990 waste incineration facilities.

The cumulative amount of waste disposal capacity of all facilities is over 120,000 ton/day.

The cumulative power generation capacity exceeds **4,500 MW**.

Summary

The system employs a sustainable and a recyclable technology in which a boiler efficiently absorbs the heat generated during waste incineration, and a steam turbine and power generator convert the heat into electric power. Depending on the quality of the waste to be incinerated, the following effects can generally be expected: (1) Harmful substances and bacteria are detoxified by burning at a high temperature of about 1,000 degrees. (2) Weight of waste is reduced by 70-85% and volume is reduced by 90-95%, which can surprisingly extend the life of existing landfills. (3) 1-ton of waste can generate 400-800 kWh electricity as a by-product of treatment.

Suginami Incineration Plant (Tokyo)

Waste disposal capacity: 600t/d (300t/d x 2)
Maximum power generation capacity: 24,000 kW

Start-up year: 2017

Feature: Located in the heart of residence area in Tokyo.



Changsha (China)

Waste disposal capacity: 5,100t/d (850t/d x 6)
Maximum power generation capacity: 100,000 kW

Start-up year: 2018

Feature: One of the largest facilities in the world.



Nam Son (Hanoi, Vietnam)

Waste disposal capacity: 75t/d

Maximum power generation capacity: 1,930 kW

Start-up year: 2017

Feature: First WtE plant to incinerate industrial waste in Vietnam.



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