Waste-fired power generation system

Feature

Hitachi Zosen has engaged in the construction of 72 waste-fired power generation facilities (attached to wasteincineration plants).

Total power generated reached 380MW

The plant achieved 8,000 hours of continuous operations.

Overview (Technical principles, actions, etc.)

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. For example, processing of the 1,000 ton of waste of 8,800 kJ/kg a day will generate 26 MW of power.

Maishima Plant (Osaka city)

Processing rate: 900 t/d, power generation capacity: 32,000 kW Some of the generated power is used in the plant while the rest is supplied to electric companies. Plant visits are welcomed.



Maishima Plant (Osaka city)

Chuo incineration Plant (Chuo-ku, Tokyo)

Processing rate: 600 t/d, Power generation capacity: 15,000 kW Recycled concrete and crushed atone were used as materials for plant construction.



Chuo incineration Plant (Chuo-ku, Tokyo)

Beitou Plant (Taiwan)

Processing rate: 1,800 t/d, power generation capacity: 48,000 kW Three plants in Taiwan including the Beitou plant achieved 8,000 hours of continuous operations.



Beitou Plant (Taiwan)

Shanghai Laogangzhen Plant (China)

Processing rate: 3,000 t/d, power generation 60,000 kW Waste gathered in the city of Shanghai is transported via ship to this plant located in a coastal area.



Shanghai Laogangzhen Plant (China)

New energy

Soil

Air



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*Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy issues. In no way does it constitute guarantees concerning their transfer or sale.