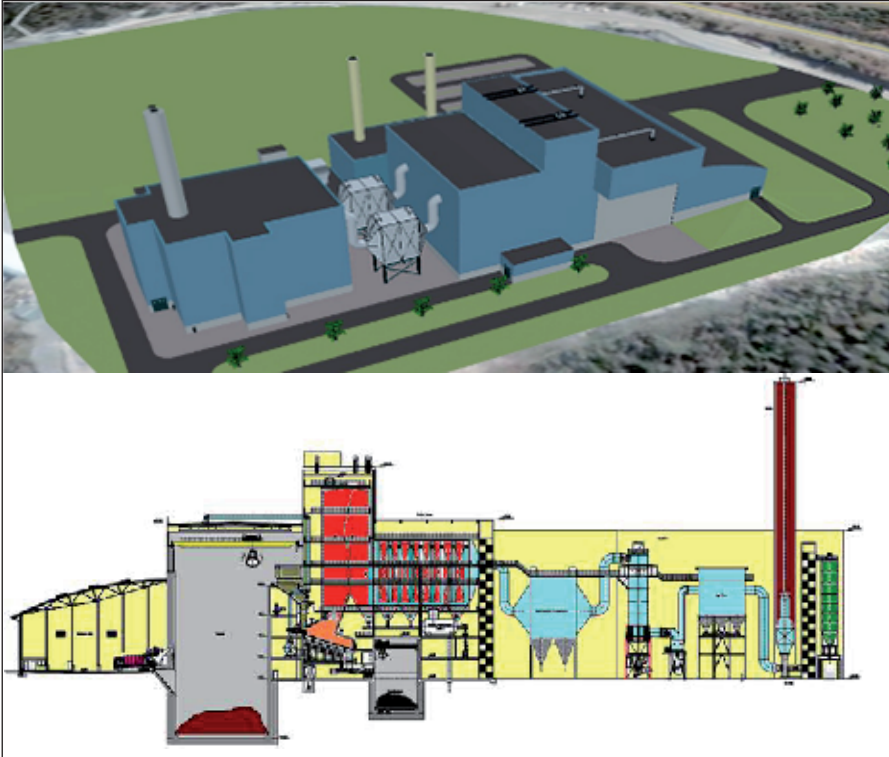


## WASTE-TO-ENERGY PLANT:

Vantaan Energia Oy, JV1  
Finland



Steam turbine:

- District heat: 100 MW
- Electrical output: 43 MW

### Client

Vantaan Energia Oy

### Project

New installation of a Waste-to-Energy plant (JV1)

Capacity: 340,000 t/a

### Consultant

Pöyry Finland Oy, Energy

### Services

- EIA
- Pre-engineering
- Full scope EPCM, including: project management, engineering, procurement, construction management

### Services Period

EIA: 2006 – 2007  
Pre-engineering: 2008  
EPCM: 2009 – 2014

### Project description

Vantaan Energia Oy is building a new WtE power plant in the city of Vantaa, Finland. The new plant will be completed in 2014.

The power plant will consist of two combustion lines (with two independent grate boilers and associated systems such as flue gas cleaning) and an integrated GT+HRSG+ST. In order to increase the overall efficiency of the power plant, live steam produced in the grate boilers shall be superheated in the HRSG together with additional steam generated by the waste heat of GT exhaust gases.

Once completed, the new power plant will produce approx. 70 MW of electricity and 100 MW of district heat.

### Technical data (preliminary)

#### Grate boilers:

- Capacity; 2 x 170,000 t/a
- Live steam: 90 bar / 400 °C

#### Gas turbine:

- Fuel: Natural gas, approx. 70 MW
- Electrical output: 24 MW

#### Heat Recovery Steam Generator:

- Grate boilers' live steam will be superheated to 520 °C
- Additional steam produced at 32 bar / 370 °C and 6 bar

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