



Steam/Water cycle for a WtE-plant

PREZERO (FORMER SITA REENERGY)



CUSTOMER SEGMENT

Waste

BRAND

Equans

TYPE OF WORK

Multitechnical
installation

PROJECT LOCATION

Netherlands,
Roosendaal

COUNTRY IN CHARGE OF EXECUTION

Belgium

FORM OF CONTRACT

Design, engineering
& consulting, Build

ROLE IN PROJECT

Subcontractor

PERIOD

2008-05 - 2011-06

Public use with client authorization



PROJECT DESCRIPTION

The complete Engineering, Procurement, Construction and Commissioning of a new Waste to Energy Plant.

The new plant consists of two incinerator lines of approximately 19 t/h each, with an annual throughput of the plant of 300.000 t/y.

The thermal capacity per boiler is about 62 MWth.



Equans solutions

- The steam/water cycle (high, medium and low pressure steam circuits and feed and condensate water system)
- The turbine/generator set (36 MWe)
- The air cooled condenser type HEXACOOOL
- The delivery of heat to the greenhouses (7.9 MWth)
- The preparation of demineralised water starting from rainwater



Customer benefits

- Production of heat and electricity by burning waste.
- Production of own electricity (4 MWe)
- Island mode during black-out of grid
- Reliable installation (1 shut down of 1 week every 3 years)

37^{MWe}

Electrical output turbine

60^{Bar}

Steam pressure

300000^{ton/year}

Waste handling