

# Fortum Tartu CHP



# Fortum Tartu, owners



**Supervisory Board**

**AS Fortum Tartu**  
Holding company

**AS Tartu Keskkatlamaja**  
DH net, customers

**AS Anne Soojus**  
Producer of heat and  
electricity

**AS Tartu Jõujaam**  
Supplier and producer of  
local fuels

# DH market in Tartu

100 000

inhabitants

1248

customers

1457

Buildings connected to DH net

204 GWh

Electricity production 2013

490 GWh

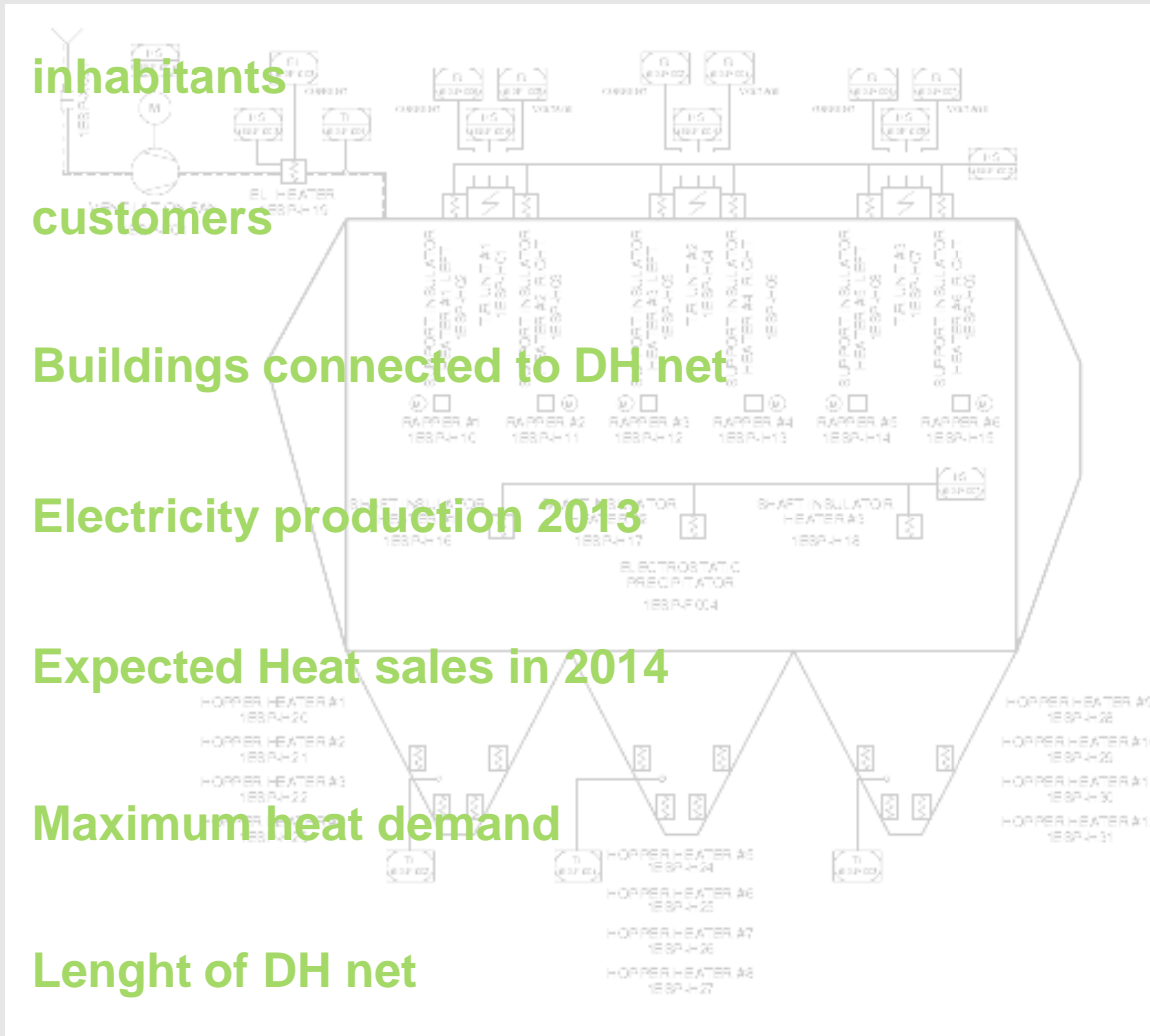
Expected Heat sales in 2014

240 MW

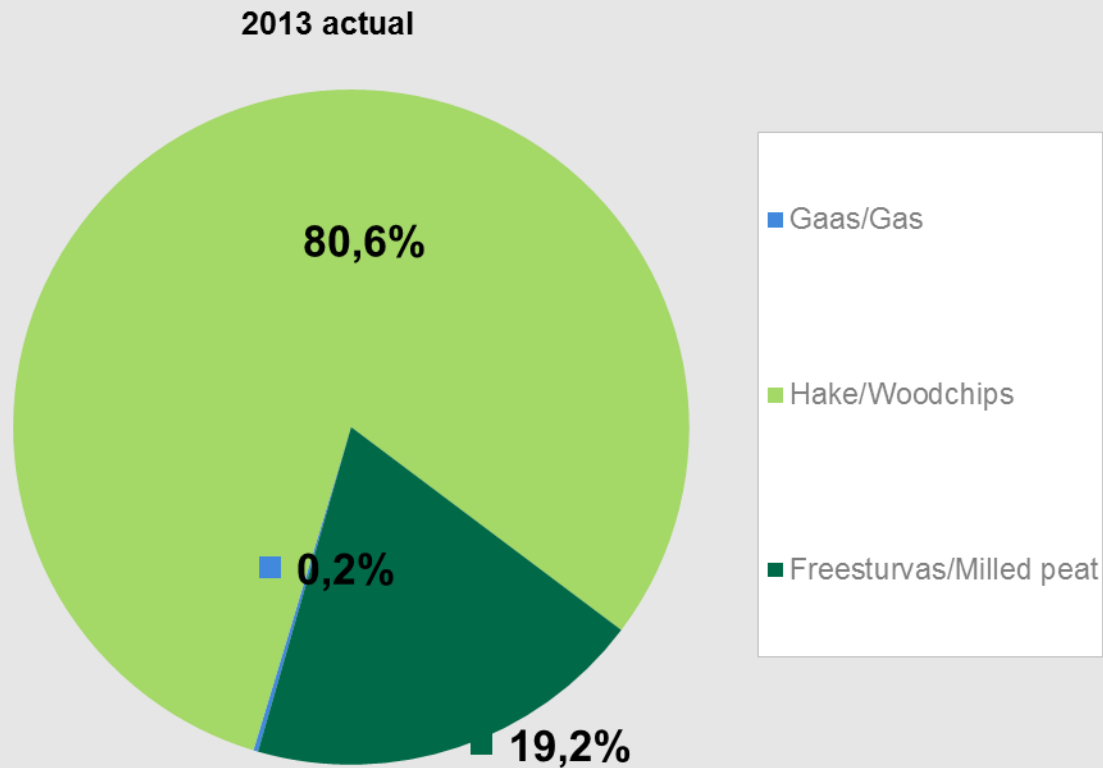
Maximum heat demand

155 km

Length of DH net



# Fuel consumption of CHP, MWh



# Key figures of CHP

Fuels

Electrical capacity

Heat capacity

Fuel consumption

Boiler

Turbine

Generator

Staff

Milled peat, wood chips, wood residues

25 MW

50 MW + 15 MW flue gas condenser

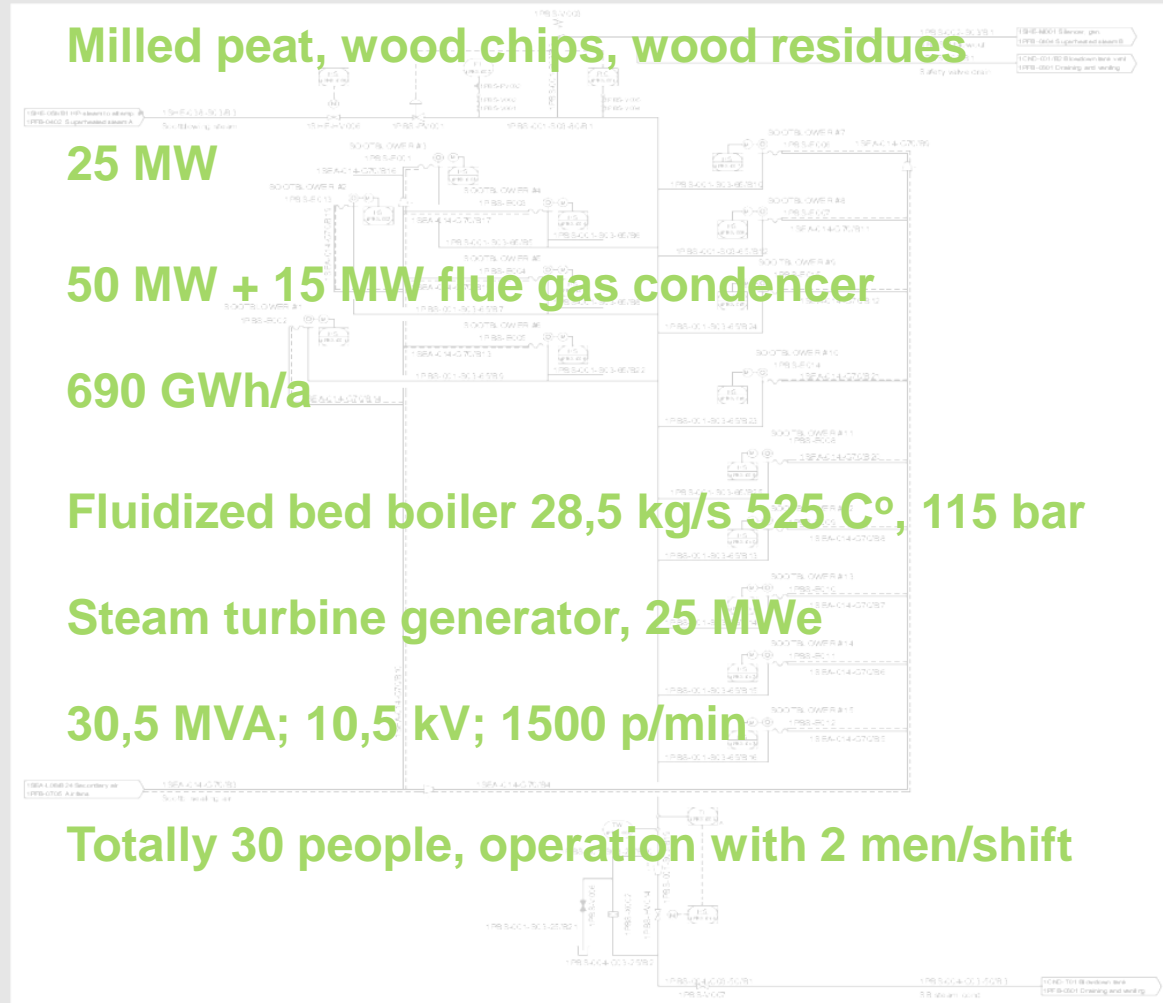
690 GWh/a

Fluidized bed boiler 28,5 kg/s 525 C°, 115 bar

Steam turbine generator, 25 MWe

30,5 MVA; 10,5 kV; 1500 p/min

Totally 30 people, operation with 2 men/shift

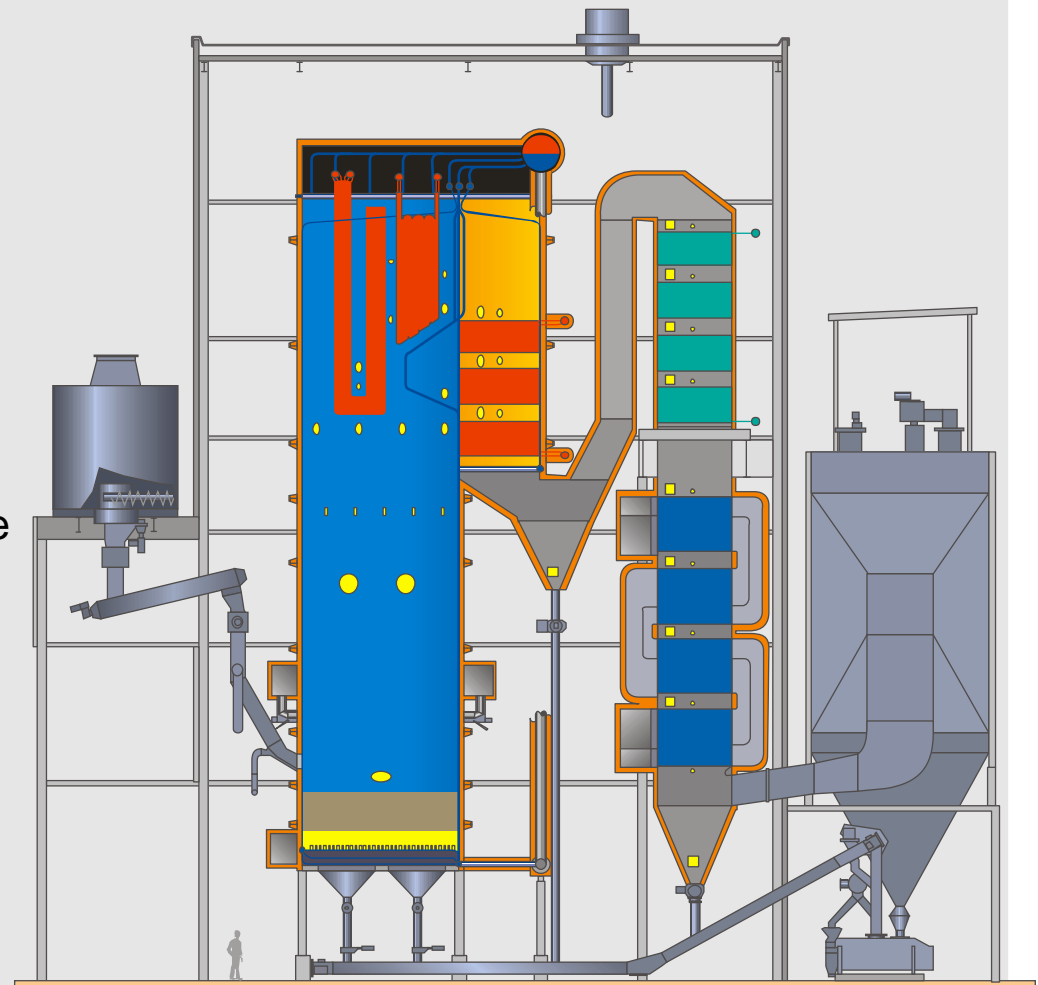


# Fluidized Bed Boiler

AS Fortum  
Tartu,  
Estonia

Steam 76 MWth  
28,5 kg/s  
115 bar  
525 °C

Fuels Peat, wood chips, wood waste  
Start-up 2009



# Thank you!



10.04.2014.a.

Fortum Tartu, M. Raud

