



MW Power pellet plant solution

PELLET PLANT OUTPUT RANGE

- **Pellet fired boilers for district heating and process steam applications**

- Firetube boilers ~5-10 MW / boiler
- Hybrid boilers ~10-15 MW / boiler
- Watertube boilers ~12-33 MW / boiler

- **District heating production**

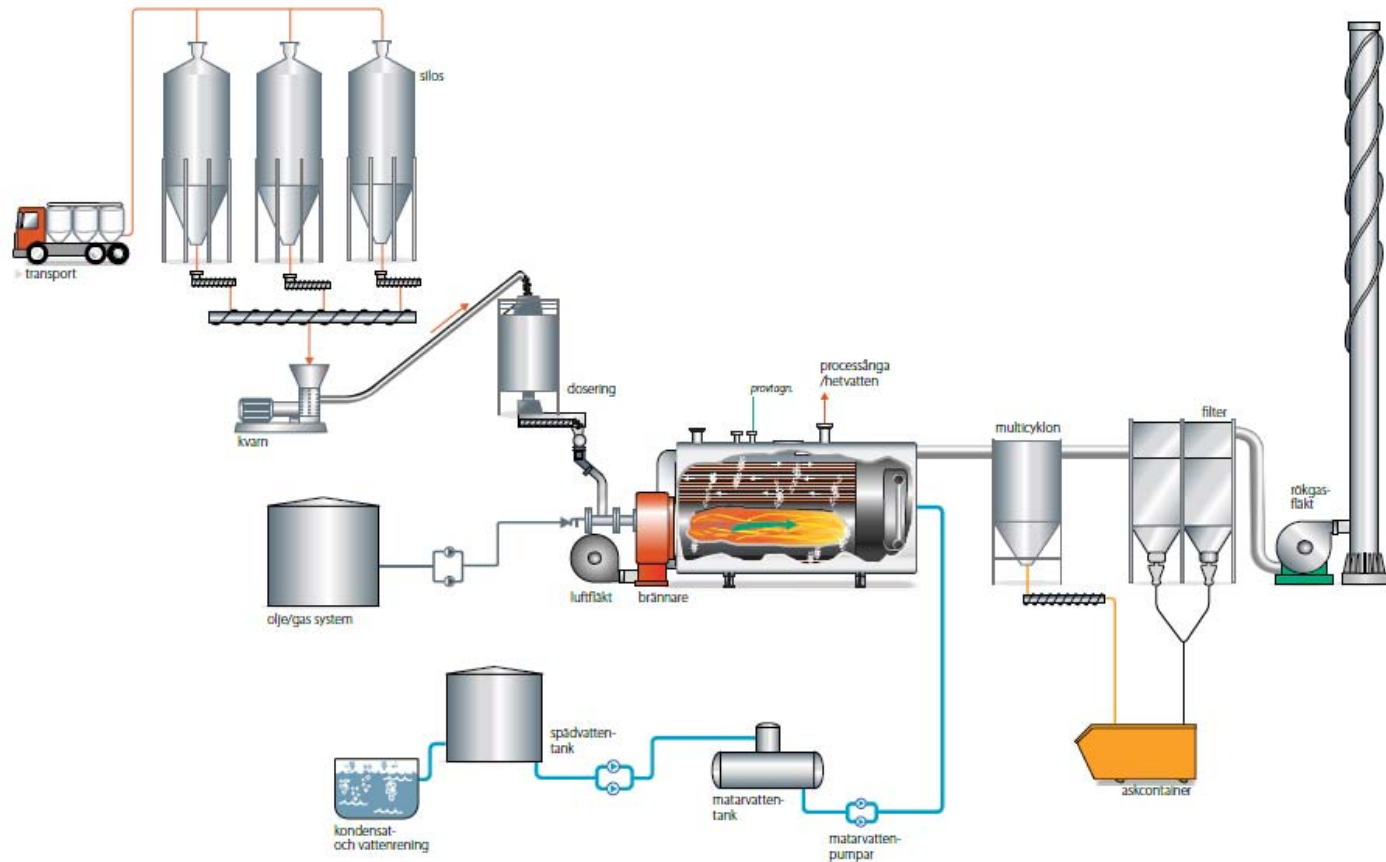
- Peak load plants
- Base load plants

- **Process steam production**



PELLET PLANT SOLUTION

Schematic diagram



WHY PELLET?

To get rid of fossil fuels in peak and back boiler plants and process steam production

- **High energy content fuel**
 - Simple fuel logistics and low environmental influence
- **Suitable for high load variation**
 - Reliable operation under demanding circumstances
- **Easy and economical to use**
- **CO₂-neutral fuel**



CASE: TAMPERE 33 MW PELLET



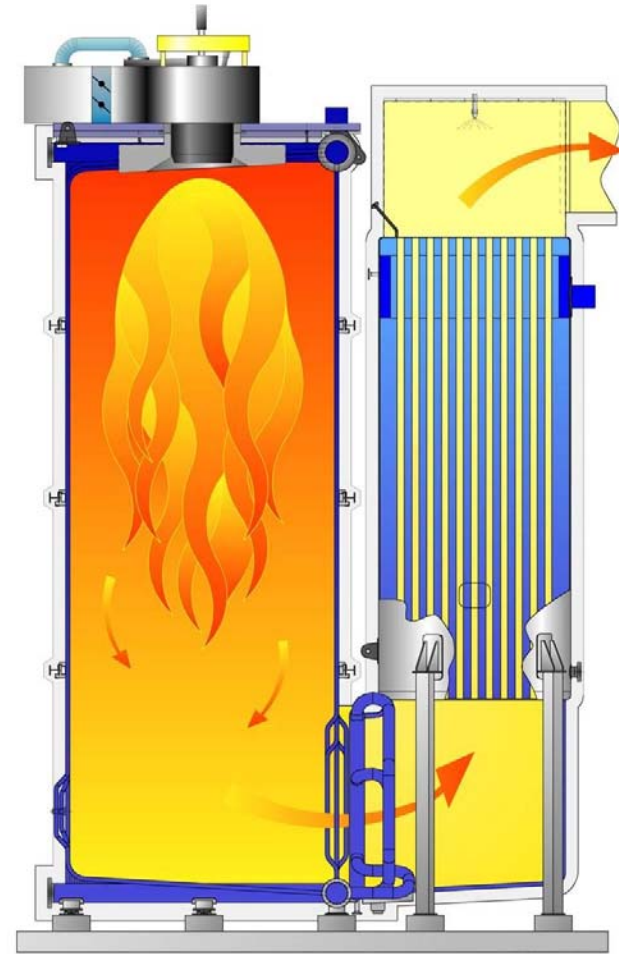
CASE: TAMPERE 33 MW PELLET

- Peak load and back up boiler plant
- Annual production app 28 500 MWh
- The biggest pellet boiler in Finland
- Replaces fossil fuels
- Heat production will start by the end of 2012



CASE: TAMPERE 33 MW PELLET

- Output 33 MW with pellets and with light oil 47 MW
- Fuel silos
- Pellets to be milled to dust
- Dust to be conveyed via filter unit to dust silo
- Modulating operation
- Turn down ratio 1:4
- High efficiency
- Electrostatic precipitator for flue gas cleaning



HAMMER MILL



HAMMERS



DUST DOSING



BURNERS



References

Tampereen Energian- Oy, Finland	tuotanto	Complete ECP delivery, output of the plant is 33 MWth	2012	Wood pellets
Sweden		Complete process delivery Saturated steam 9,0 ton/h 18 bar	2012	Wood pellets
Sweden		Complete process in container Saturated steam 7,0 ton/h 16 bar	2011	Wood pellets
Sweden		Complete process delivery Saturated steam 3,0 ton/h 16 bar	2011	Wood pellets
Sweden		Complete process delivery Saturated steam 7,8 ton/h 20 bar	2010	Wood pellets (Bark pellet)
Sweden		Complete process delivery Saturated steam 0,9 ton/h 13 bar	2010	Wood pellets
Sweden		Complete process delivery Saturated steam 7,8 ton/h 16 bar	2010	Wood pellets

IT WORKS!

