

MULTI-FUEL FIRED CHP PLANT

Landskrona Kraft AB

Landskrona, Sweden



Babcock and Wilcox Vølund has won the order from Landskrona Kraft AB for a multi-fuel plant for the combustion of refuse-derived fuels (RDF) from plastic, wood and cardboard production. The plant went into commercial operation on October 2012.

The contract for the Landskrona project goes hand in hand with our strategy to supply both expertise and technology for all kinds of waste combustion processes. In the case of this project, we supply the complete plant

including cranes, feeding system with hopper, two-piece vibrating grate, boiler with SNCR, burners, soot blowers, water cleaning system and feed water system. We will also supply various auxiliary equipment and the electrical system including a DCS system, a semi-dry flue gas cleaning equipment with fly ash system and residual silo, a CEMS (Continuous Emissions Monitoring System), a flue gas condensing system from Götaverken Miljö AB (a Babcock & Wilcox Vølund owned subsidiary in Sweden) and a chimney.



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Tomorrow's plants

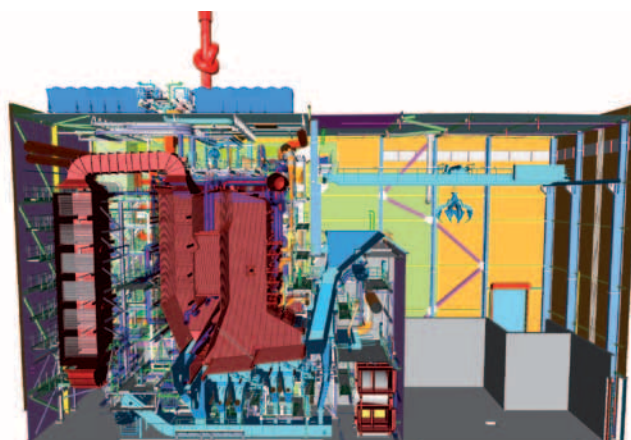
The new facility in Landskrona, Sweden, is part of a new generation of plants capable of burning a wide range of biomass and sorted waste fuels. It is a further development of the plants that Babcock & Wilcox Vølund has delivered to date.

In future, there will be an increased demand for advanced technology to exploit a wide range of resources. New fuels, generated from materials ranging from sorted industrial waste to wood chips, will help meet EU requirements for a reduction in emissions of greenhouse gases. Our multi-fuel fired combined heat and power plant in Landskrona is ready to face the challenges of the future due to our 2-step water-cooled vibration grate.

Cost-saving solutions

The facility in Landskrona is able to process both biomass and refuse-derived fuels, all of which are very attractive options in the low-price category.

The flexibility of our multi-fuel solutions means that our customers do not have to store biomass fuel or ship it in from other regions. The multi-fuel energy plant in Landskrona can switch between fuels and maintain a steady production using locally available biomass throughout the year, resulting in significant cost savings on transport and fuel storage.



Plant design data (all three lines)		
Process parameters	Guaranteed Values*	Units
Waste capacity	9.3	t/h
Heat value, lower	12.8	MJ/kg
Steam output	39.6	t/h
Steam temperature	430	°C
Steam pressure	70	bar
Gross Electric Output	8.43	MW
District Heating Output	21	MJ/s
Boiler outlet flue gas temp.	141	°C
Feed water temperature	130	°C

Flue gas values: Out of boiler	Guaranteed Values*	Units
NO _x **	57	mg/Nm ³
CO**	46	mg/Nm ³
NH ₃ **	12	mg/Nm ³
TOC	10	mg/Nm ³

* All values refer to 11% O₂ dry gas

** 24-hour average

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