



LJUNGSJÖVERKET - PHASE 2

Ljungby, Sweden

WASTE INCINERATION PLANT

In 1999 Babcock & Wilcox Vølund ApS (BWV), Esbjerg, Denmark, and Energitekniska Konstruktioner AB (ETK) in Luleå, Sweden, entered into an agreement on cooperating on a consortium basis.

In November 1999 Ljungby Energi AB awarded the consortium

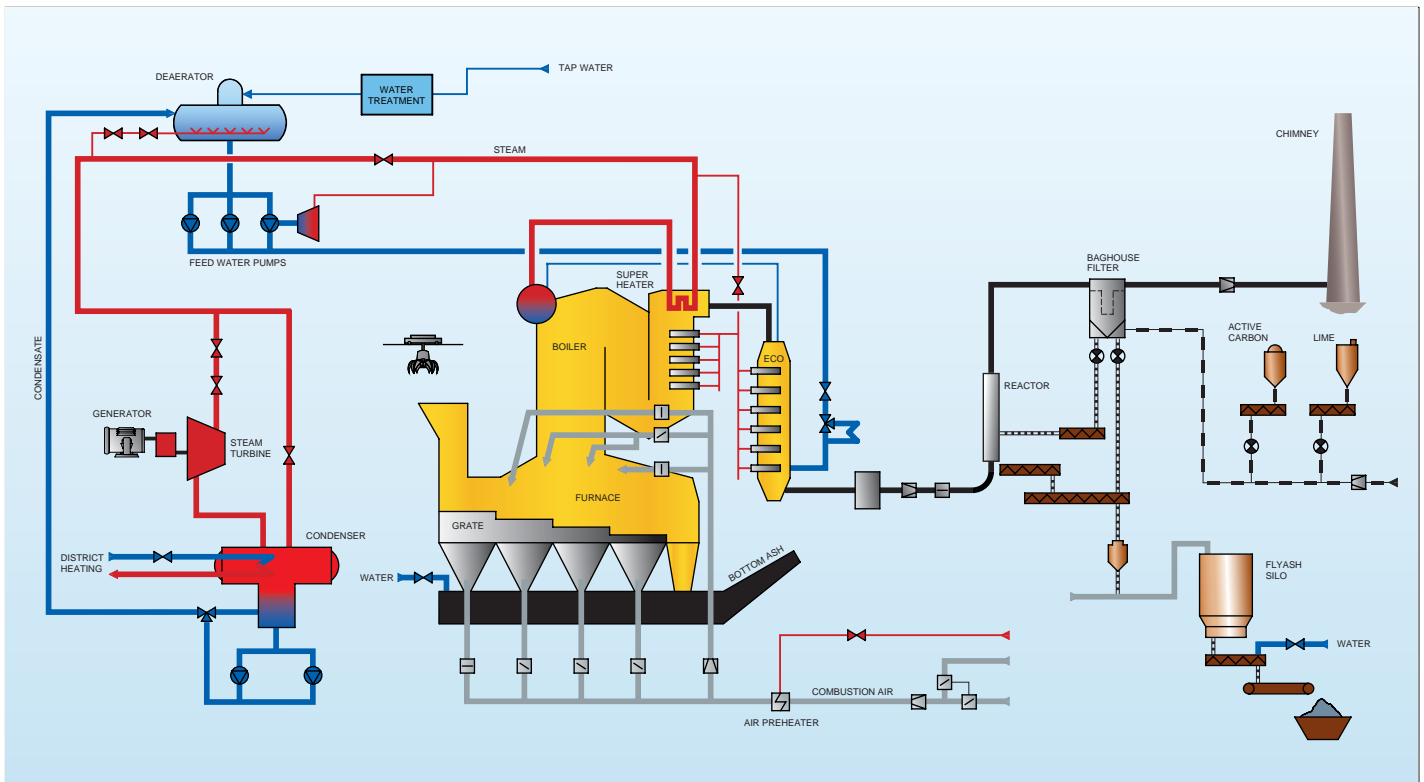
the order for a full-scale power and district heating plant including buildings.

Ljungsjöverket is located on the northern outskirts of Ljungby, approx. 130 km from Hälsingborg along the E4 motorway leading up to Stockholm.



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Waste incineration plant



The plant incinerates household waste from Ljungby and the surrounding municipalities and has an annual capacity of up to 35,000 tons of unsorted waste. The maximum boiler effect is 18 MW. The fly ash from the plant is collected in big-bags and deposited at the local refuse dump where a class 1 deposit has been established..

The slag from the plant is driven to Malmö for screening, following which the main portion (80-85%) is transported back to Ljungby for re-use or depositing.

Since December 2000 the plant has, by and large, supplied Ljungby with district heating throughout the winter period. During the summer, when heating requirements are low, the town receives its heat from an old wood chip fired plant. The waste generated during the summer is therefore pressed into bales and stored until needed again for heating during the winter.

Plant data

Nominal capacity	8.2 t/h at 9.0 MJ/kg
Max. continuous capacity	10.5 t/h at 7.0 MJ/kg
Steam data	16 bar, 217 °C
Steam production	28.3 t/h
Electricity generation	1.7 MW
District heating production	18.9 MW
Flue gas cleaning	Semi-dry scrubber with bag filter

Environmentally approved emission values

Particles	10 mg/Nm ³ ¹⁾
SO _x (as SO ₂)	50 mg/Nm ³ ¹⁾
NO _x (as NO ₂)	150 mg/Nm ³ ¹⁾
HCl	10 mg/Nm ³ ¹⁾
Dioxin (equiv. 1-TEQ)	0.1 ng/Nm ³ ²⁾
TOC (total organic carbon)	10 mg/Nm ³ ¹⁾

¹⁾ = hourly mean value

²⁾ = mean value over 8 hours

All figures apply at 11% oxygen, dry flue gas.

Guarantee test results

Particles	0.6 mg/Nm ³
SO _x (as SO ₂)	2.3 mg/Nm ³
NO _x (as NO ₂)	131.1 mg/Nm ³
HCl	5.7 mg/Nm ³
Dioxin (equiv. 1-TEQ)	0.014 ng/Nm ³
TOC (total organic carbon)	<1.7 mg/Nm ³