SIVOM de NEVERS

Fourchambault, France

WASTE INCINERATION PLANT

In April 1999 the global waste treatment organisation Valest/Sonirval made an agreement with the municipalities of Nevers og Fourchambault concerning the financing, building and operation of a plant for the disposal of the domestic waste from the two cities

In May 2000 a consortium consisting of Babcock & Wilcox Vølund ApS (BWV) and C3B was awarded the contract for the building of the complete waste incineration plant.

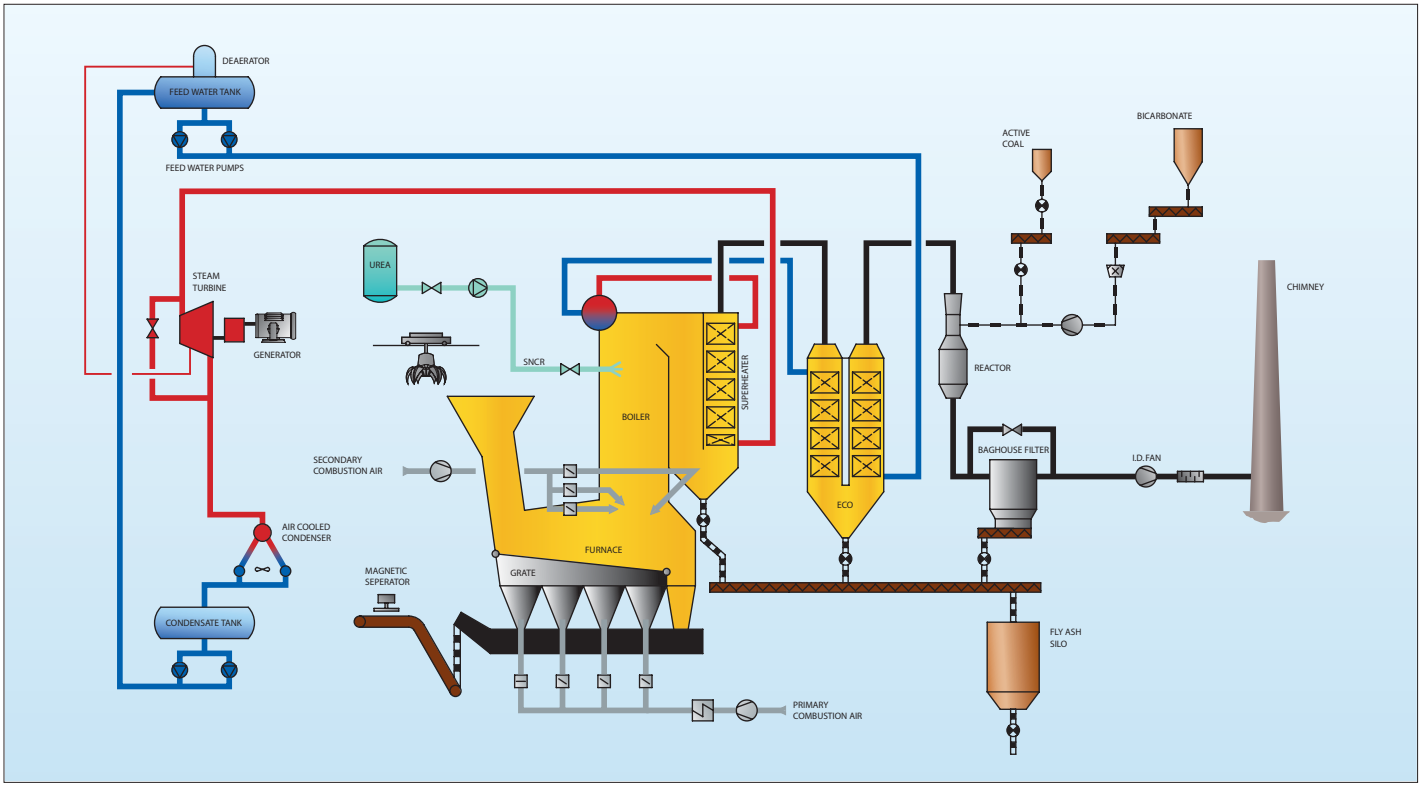
The plant is located very close to Fourchambault, and therefore all environmental demands were extremely high.

In the summer of 2004 the French environmental magazine "ca m'interesse" published the results of a national investigation of the environmental impact from all waste incineration plants in France. This investigation showed that out of a total number of XXX waste incineration plants in France, the plant in Nevers has the lowest emssion of pollutants to the air.

VØLUND SYSTEMS
Waste and Energy Technologies

SIVOM de NEVERS

Waste-to-energy plant



The fuel consists of unsorted domestic waste. The plant is capable of burning approx. 50,000 tons of waste per year. The design capacity is 6 t/h at 2200 kcal/kg.

The plant is built according to the the technological 'state of the art' within waste incineration in respect of boiler and combustion technology as well as emissions to the air, earth and water.

BWV scope of supply:

Complete incinerator with filling hopper and 4-stage grate including air system with primary and secondary air (preheated primary air). Submerged ash conveyor with subsequent magnet separator for bottom ash. Complete steam boiler with superheater and free-standing economiser. Feed water system with deaerator, feed water tank and complete feed water control system. Water treatment system for production of make-up water. Steam turbine with condenser and condensate tank incl. pumps. Generator connected to the electric grid. Flue gas cleaning plant with dry cleaning system (reactor for injection of pulverised bicarbonate and activated carbon), baghouse filter, ID fan and chimney. Fly ash silo with system for collection of fly ash from boiler, economiser and baghouse filter. Complete electrical supply with cabling. Complete control and regulation equipment for the control of the whole plant..

Plant main data:

Nominal capacity waste, MCR	6,0 t/h
Steam data	35 bar, 346 °C
Steam output	20 t/h
Electricity output	3,0 MW

Flue gas cleaning system with lime injection and baghouse filter.

Guaranteed emission data:

Particle emission	10 mg/Nm³
HF	1 mg/Nm³
SOx (as SO_2)	50 mg/Nm³
NOx (as NO_2)	200 mg/Nm³
HCl	10 mg/Nm³
Dioxin	0,1 ng/ Nm³
TOC	10 mg/Nm³

Babcock & Wilcox Vølund
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