



Press Release

HAGER+ELSÄSSER

Wastewater Treatment for Waste Incineration & Power Plant

Hager + Elsässer have been awarded a contract to build a wastewater treatment plant for a waste incineration and power plant being built outside Copenhagen.



Rendered view of main wastewater treatment plant

This plant will operate non-stop, treating wastewater to a high discharge specification, and is being designed and built to a particularly high standard to ensure long trouble-free and low maintenance operation. The treatment plant will handle the wastewater stream arising from the flue-gas desulphurisation system. Since such plants inevitably operate non-stop and so the reliability and up-time requirements for all parts of the whole plant are very demanding.

The plant is due to be built in 2012, and will include the following main plant features:

Primary Flow & Concentration Balancing Tank

Coarse neutralisation stage with FeCl₃, Anti-scalant and CaCO₃ dosing and sludge seeding

Fine Neutralisation stage with NaOH dosing

Precipitation stage with TMT-15 dosing

Flocculation stage with polyelectrolyte dosing

Lamella clarifier

Sludge thickener

Fully mechanised filter press for sludge dewatering

Post-precipitation stage with TMT-15 dosing

Sand Filtration

Arsenic removal stage

Final discharge monitoring

Extensive system flushing & cleaning facilities

Fume extraction system

Discharge quality requirement are:

	Unit	Daily Average Value
pH	-	6.5 – 9
Temperature	°C	50
Suspended solids	mg/l	15
N total	mg/l	250
Hg	mg/l	0.003
Cd	mg/l	0.003
Tl	mg/l	0.5
As	mg/l	0.013
Sb	mg/l	0.85
Sn	mg/l	0.06
Pb	mg/l	0.1
Cr	mg/l	0.3
Cu	mg/l	0.1
Co	mg/l	0.01
Ni	mg/l	0.25
Mn	mg/l	0.2
Mo	mg/l	0.03
Ag	mg/l	0.25
V	mg/l	0.5
Zn	mg/l	1.0
Dioxins and furans	ng/l	0.1

This contract is the latest of many that H+E has built previously for similar applications. It affirms H+E's continuing, long-term commitment to the energy and environmental sectors.

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