

Case story

**Upgrading existing Filter system for removal of Dust,
Dioxins, SO2 and heavy metals.**

Holmens Paper AB, Bravikens Pappersbruk - Sweden



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OPGRADING OF EXISTING FILTER SYSTEMS, FOR REMOVAL OF, DUST, DIOXINS, SO₂ AND HEAVY METALS

Introduction:

Holmen Paper AB is part of the Holmen-Group. They are one of Europe's leading producers of wood-based printing paper with a total of four paper mills in Norrköping, Hallstavig, Vargön and Madrid.

The production capacity for the plant in Norrköping is approx. 750,000 tonnes / year.

The residual product from the production (sludge, ink, wood, etc.) is incinerated in their own 55 MW power / heating plant.



Assignment:

Upgrading of existing filter systems.

Purification of 185,000 m³/h flue gas from 55MW boiler.

Reason:

Compliance with all EU directive emission requirements.

Solution:

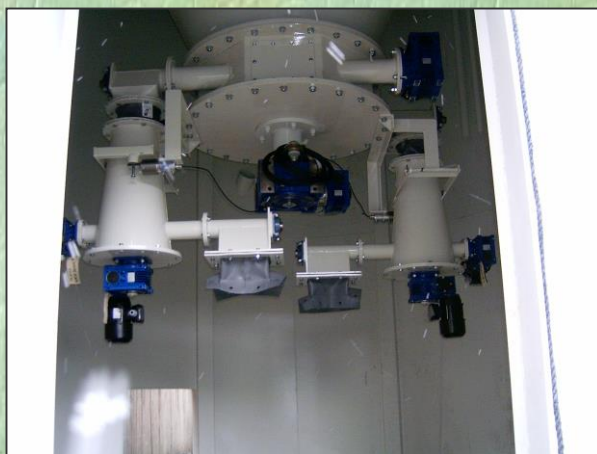
The delivery of the new flue gas cleaning system, consisted of two parallel filter modules with each 3,254 m², Lime and Active carbon silos, incl. pneumatic supply system, residual product system, dampers, ducts, service platforms, plant control and subsequent mechanical and electrical mounting.



Implementation:

In close cooperation between Holmen Paper`s & Filcon's project departments, the mechanical and electrical installation went extremely satisfactorily for both parties.

The project and the installation proceeded according to schedule, and in particular the switchover and commissioning of only 5 days was complied with, by hard work from all involved..



Hydrated Lime and Activated Carbon are injected into the flue gas duct before the filter for removal of acid components (SO₂), heavy metals and dioxins.

Conclusion:

The installation process was carried out satisfactorily, just as the start up phase proceeded smoothly. Operationally, the target has been achieved and EU emission requirements have been met. Production Manager Karsten Jonsson expresses great satisfaction with the plant, which operationally meets the high standards Holmen Paper expected.



Follow up:

Subsequently, Filcon has supplied a ID-Fan with 700 kW ABB motor, as well as a complete new Mechanical ash handling system, connection the entire existent discharge system.