

Case Study

Grästorp Fjärrvärme AB - **Grästorp District Heating Plant** Co-owned by Lantmännen Agroenergi AB and the municipality of Grästorp, Sweden.



Fuel: Wood chips and Salix

Boiler: 3.5 MW – installed 2002

Soot-blower: The boiler was delivered with a soot-blowing system at the top of the boiler 9 pcs. valves on 1st stroke countercurrent 5 pcs. valves on 2nd stroke wake 7 pcs. valves on 3rd stroke countercurrent

Efficiency: Mechanical cleaning was necessary several times per month – the pipes were not kept clean.

Initiative: It was decided to replace the soot-blowing system on the 1st stroke. AEROVIT soot-blowers on a new boiler door were delivered February 2003.

Result: Mechanical cleaning only necessary twice a year. The pipes in 1st stroke are now kept clean. The pipes in 2nd stroke are now kept fairly clean. The pipes in 3rd stroke are not kept clean.

Future: If the remaining soot-blowing system is replaced with AEROVIT valves, it is to be expected that there will be a need for mechanical cleaning only once every 2 or 3 years.

Service carried out on all valves after 4 years in operation.

The soot-blowing system – without cooling – on 2^{nd} and 3^{rd} stroke shows dysfunction and flow of compressed air.



All 12 valve diaphragms were burned or melted, cracked and rigid – clearly affected by the heat from the boiler's turn box. All diaphragms had to be replaced.



Corrosion in the shot tube of the valves – obviously affected by corrosive flue gas.

The shot tube is almost sooted up in consequence of dysfunction.

AEROVIT's valve system – with cooling – on 1st stroke has faultless function.





All 9 valves and valve diaphragm are in good condition and require no replacement. Clear result of AEROVIT's patented system with cooling air.

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