Nässjö Affärsverk

Application: Smoke Tube Boiler
Efficiency solution: Infrasound Cleaning
Cleaning area: The entire boiler

General info

Plant/Mill: Nässjö Affärsverk, Sweden
Boiler: Saxlund (Built 2008)
Fuel: 80% forrest residue, 20% wood chips
Capacity: 12 MW_{th}

Installation

Type: APM350
Year of installation: 2014

Situation description

Compressed air soot blowing is installed, but it is relatively ineffective because the valves are mounted on the turning chamber, far away from the problem area. This results in the air pressure not reaching the problem area. The smoke tube boiler is primarily used as base load but also during audits of a larger CFB boiler. During the winter, it runs at maximum load. In total, it runs about 5000 h / year (7 months). After two months of operation, they were forced to reduce the effect to 8 MW, and after four months, the boiler had to be stopped for manual cleaning, which took a day to complete.



Figure 1. The infrasound generator installed on the turning chamber.

They were forced to reduce the effect after two months of operation because the outlet temperature increased too much. Therefore, the boiler's availability and performance needed to be increased.

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Results

- The Customer can now operate on full load the whole year
- Increased efficiency of the boiler thanks to stable flue gas outlet temperature
- No need for manual cleaning

Under references at www.heatmanage.com/references, you can read about our technical and economical results for our technical solutions; infrasound cleaning, optimized steam soot blowing, big data operation analysis and CFD (computational fluid dynamics). White papers comparing our solutions to competing technologies are available under knowledge base at our homepage.

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