A Case study from Heat Management

Sandviksverket Växjö, Sweden

Application: CFB Boiler (biofuel)
Product: Infrasound cleaning
Cleaning area: Economiser, catalyst, air preheater

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General info

Plant: Heat and power plant
Boiler: Foster Wheeler
Operation time: 8,000 hours per year
Fuel: Biofuel
Capacity: 100 MWth

Infrasound generator

Type: APX5000
Year of installation: 2009

Situation description

Växjö Energy's core business consists of heat production and power generation, as well as IT-communication with over 29 000 customers. The technical development and the fact that Växjö Energy uses biofuel, has led to nearly fossil-free production.

Before the installation of the Infrasound cleaner, the economiser and air preheater was cleaned by steam sootblowers twice every day, and the catalyst was cleaned once per day (see Figure 1). The sootblowing caused wear and large costs.

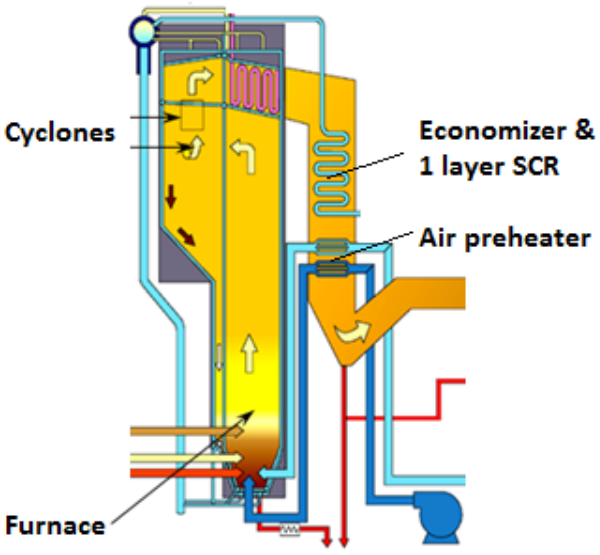


Figure 1. Boiler

Results

The installation of the Infrasound Cleaner lead to a 50% reduction of steam sootblowing in the economiser and air preheater, and full elimination of sootblowing in the catalyst. The decreased need for steam sootblowing reduced the wear in the boiler, and also lead to large energy and money savings.



Figure 2. Sandviksverket drone footage

Heat Management

Heat Management was founded in 2016 following a merger between Infrafone AB and Soottech AB. The purpose of the merger was to create a world-leading cleantech company with a superior product portfolio in energy conversion adapted for industrial boilers and incinerators.

Heat Management's primary customers include power and heat plants as well as pulp mills and marine companies. Today, Heat Management has patented solutions installed in a large number of applications around the world.

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