Heat Management

Ryaverket, Borås

Application: Heat and power plant
Efficiency solution: Infrasound Cleaning
Cleaning area: Economizers

General info

Plant: Heat and power plant
Boiler: 2 x Kvaerner, ACZ-BFB (2004)
Fuel: Waste and biomass
Capacity: 2 x 20 MW_{th}

Installation

Type: 2 x APX2000, 2 x APL1000
Year of installation: 2011

Situation description

Steam soot blowing was previously used three times per day in the economizers.

The steam soot blowing results in wear of the tube bundles and consequently, reduced lifetime and increased costs as well as reduced boiler output due to the steam consumption during the soot blowing.

To reduce the costs and the production loss, it was decided to install Infrasound generators from Heat Management.

The installation was done in 2011, above and on the soot pocket beneath the economizers, as shown in Figure 1.

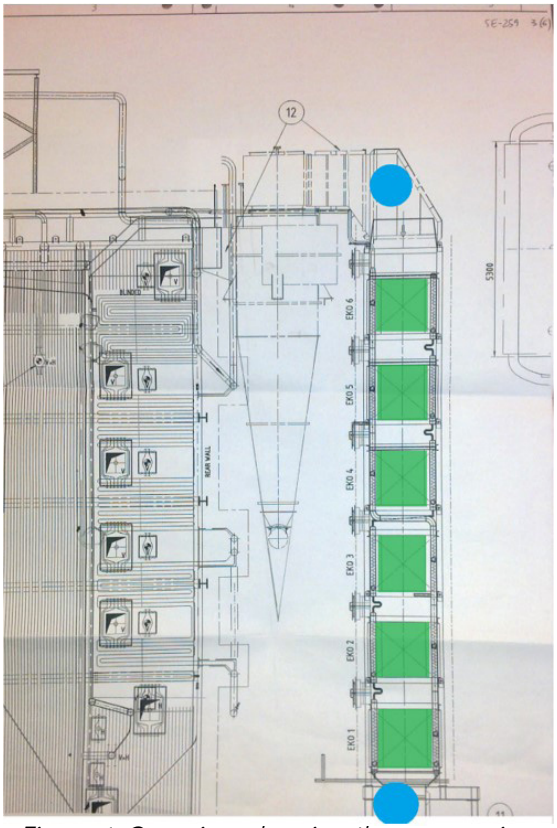


Figure 1. Overview showing the economizer (green) and the Infrasound generators (blue,) installed above and on the soot pocket beneath the economizer.

Wave Impact Heat Management AB
E-mail: info@heatmanage.com
Phone: +46 8-661 33 10

Results

- **Reduced the need for steam soot blowing in the economizers by 75%**, resulting in reduced wear of the tube bundles, increased boiler output, and reduced maintenance costs. Please see Figures 2 and 3.

- **Reduced steam consumption due to the reduced need for steam soot blowing**, resulting in reduced production loss and thereby increased revenue.

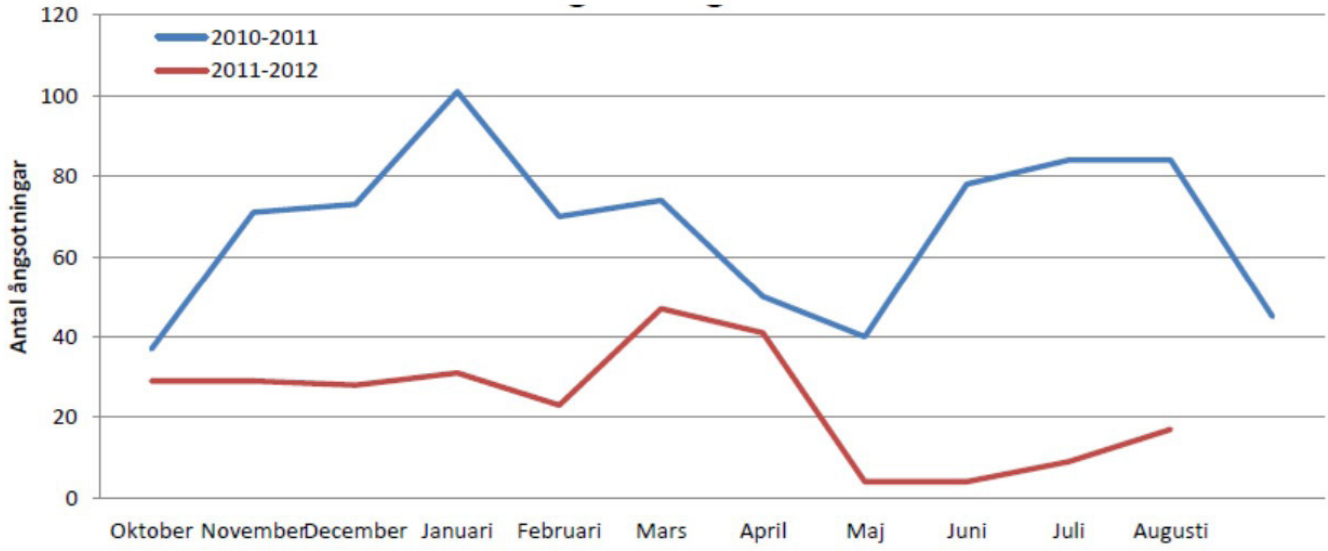


Figure 2. Number of steam soot blowings in economizer 1

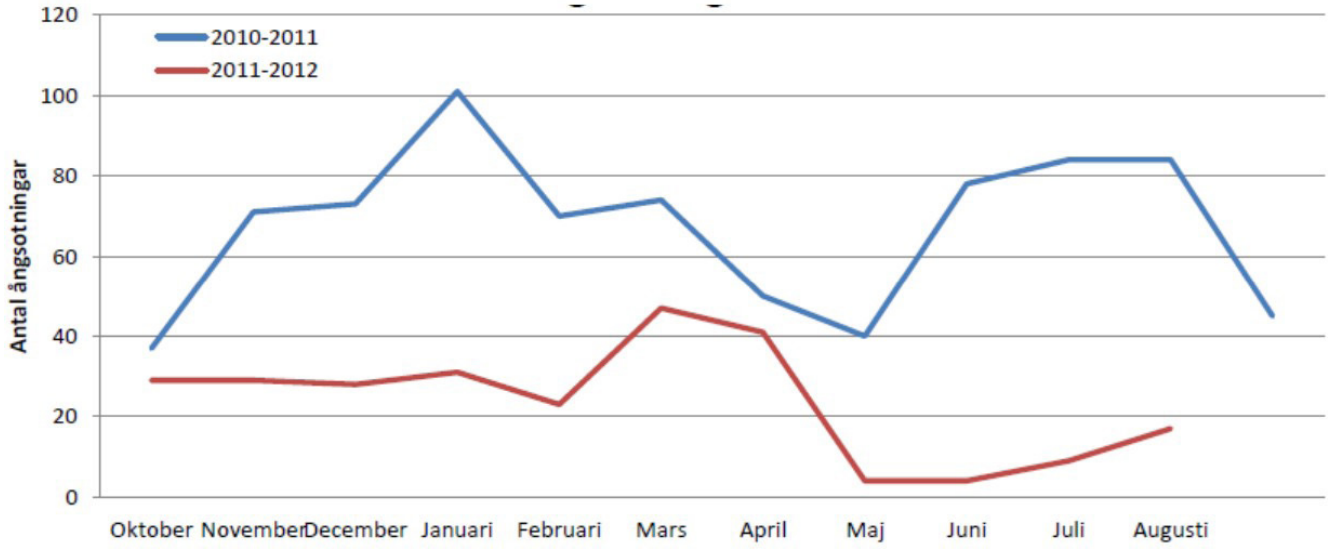


Figure 3. Number of steam soot blowings in economizer 2

Wave Impact Heat Management AB
E-mail: info@heatmanage.com
Phone: +46 8-661 33 10