Heat Management

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Application: Waste to energy
Efficiency solution: Infrasound Cleaning
Cleaning area: Economizer and convection area

General info

Plant: Waste to energy plant
Boiler: Martin GmbH, grate
Fuel: Domestic and industrial waste
Capacity: 29 MW_{th}

Installation

Type: 2 x APL1000 & 2 x APX2000
Year of installation: 2008 & 2009

Situation description

Continuous shot cleaning was used to keep the economizer and convection area clean. The power plant had to shut down the boilers for manual cleaning every 10-12 weeks.

The power plant installed Heat Management´s infrasound generators to:

- Reduce the wear on the tube bundles and the tube walls
- Reduce the wear on a flue gas fan, caused by fragments of shots
- Reduce maintenance costs
- Increase the time between manual cleaning
- Increase boiler efficiency
- Improve the working environment



Figure 1. Installed Infrasound cleaner

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- **Shot cleaning was eliminated in the economiser**, which means less wear on the tube bundles and improved working environment.

- **Lower and mores stable differential pressure** over the economiser than when using shot cleaning. See figure 2 below.

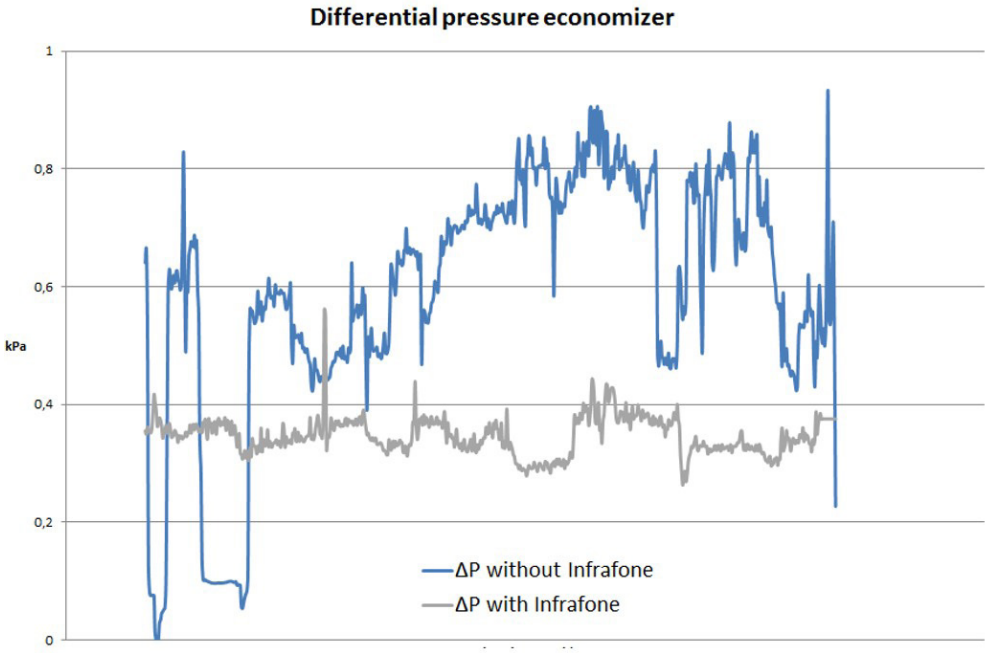


Figure 2. Differential pressure in Economizer before and after infrasound installation.

- **More stable and lower flue gas outlet temperature** after the convection area. Shot cleaning is still used in the convection area.

- **Easier to remove deposits** in the warmest part of the convection area, where the flue gas temperature is 600 – 680 °C.

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