Heat Management

E.ON Mora

Application: Waste to energy boiler
Efficiency solution: Infrasound Cleaning
Cleaning area: Economizer

General info

Plant: Heating plant
Boiler: Danstoker / Völund
Fuel: 50/50 industrial & household waste
Capacity: 8 MW_{th}

Installation

Type: 1 x APM350
Year of installation: 2010

Situation description

In 2010 a new economizer and new flue gas cleaning equipment were installed. The new economizer has infrasound cleaning as the only cleaning equipment.

The former economizer had shot cleaning, but the cleaning effect was not good, and the staff disliked the shot cleaning equipment due to the bad working environment when filling up shots and when repairing the system.

The economizer has 200 °C inlet temperature of the flue gas and 150 °C outlet temperature.



Figure 1. Photo of the tube bundle in the economizer after 2,5 years of operation, without any manual cleaning and with infrasound cleaning as only cleaning method used.

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Results

- **Infrasound cleaning is the only cleaning method used**.
- **No manual cleaning of the Eco**. The boiler has up to today (Feb 2014) been in operation since Jan 2011 without any manual cleaning of the economiser.
- **Stable flue gas temperature and differential pressure**. The eco is operating smoothly and the outlet flue gas temperature and the differential pressure are kept stable on a low level.

Under references at www.heatmanage.com, you can read about our technical and economical results for many of our projects.

We have gathered our knowledge based on our long experience of infrasound technology compared to conventional methods such as steam soot blowing, shot cleaning, compressed air soot blowing and audible sound (sonic or acoustic horns) in several "white papers" available under references.

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