Heat Management

Jönköping Energi, Torsvik 2

General info

Plant: Combined Heat and Power
Boiler maker: Valmet
Boiler: BFB boiler
Fuel: 50% Refuse Wood & 50% Wood Chips
Capacity: 135MWth

Installation

Type: HISS™
Year of installation: 2023
Number of sootblowers in super heater: 24
Number of sootblowers in ECO: 6
Cleaning area: Superheater and Economizer

Situation description

After increasing the fuel load from 110 MWth to 135 MWth and the steaming rate from 140 ton/h to 173 ton/h in a Power Boiler at the Torsvik site, the need for sootblowing increased. Heat Management's High Impact Sootblowing System, HISS™, was implemented on the entire sootblowing system to reduce:

- Negative impact from sootblowing while maintaining cleaning capacity
- Steam consumption from sootblowing
- The cycle time for sootblowing
- Wear from eroding condensation



Figure 1. Gustav Westesson, Facility Owner.

> **"The implementation of HISS™ has been professional and as a client, things have been going well, a lot being attributed to Björn Ingemansson and Tomas Fransson that has been helping out from Jönköping Energi"**
>
> Gustav Westesson, Facility Owner.

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

Boiler steam data:
Total steam flow: 172.8 t/h
Steam preassure: 140 bar
Steam temperature: 540 °C

Results

The result of the HISS installation is a reduction of sootblowing steam consumption of a sootblowing cycle by 41-44 % and halved cycle time.

The trends before and after installing HISS™ are shown in the graphs below.

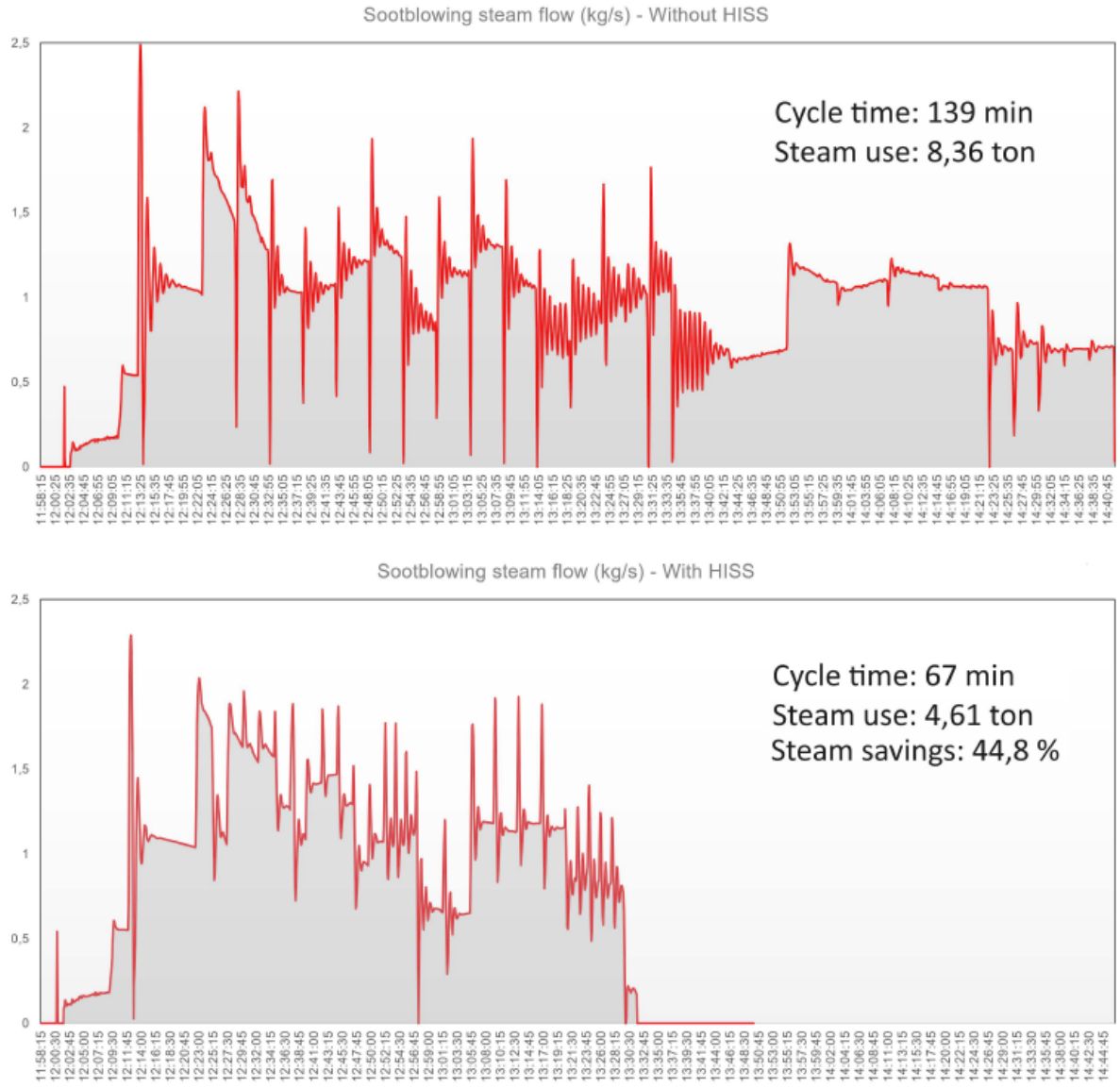


Figure 2. Sootblowing steam flow over time with and without HISS™

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