

Case Study Coal-fired Heat & Power Plant

Plant information

Värtan, Stockholm, Sweden

Silo size 1200 m3 made of concrete

Ashes: Cyclone ashes from combustion of coal

Cleaning areas:

Silo for ashes

Sound generator: 1xAPM150

Installation year: 2007

Plant situation

The purpose of installing the infrasound generator was to remove ashes stuck on the inner walls of the silo.

Earlier the staff had to enter the silo with safety lines and try to remove the ashes manually. This was a very unsafe procedure since large amounts of ashes could fall on the staff.

An infrasound generator was installed on top of the silo to solve the problem.



Technical results

The cleaning effect was obvious after just a few minutes operation of the infrasound generator. So much ashes has fallen down that the inspection door at the bottom of the silo could not be opened.

After 6 hours operation of the infrasound generator all the ashes from the inner walls of the silo had fallen down and the silo could be inspected for maintenance and repairs..

The use of the infrasound generator saves the plant a large number of man hours and eliminates a huge safety risk.

Customer statement:

"We are very pleased with the cleaning effect of the infrasound generator. Earlier problems related to cleaning the inner walls of the silo are now completely solved by using the Infrafone equipment. The working environment for our staff has become safer."

(Jan Henriksson, Fortum)

Under References, at www.infrafone.se, you can read about our technical and economical results for several heat and power plants.

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

More information about the infrasound technology and its benefits as well as technical features and functions of the Infrasound System can be found in several brochures under Products at Infrafones homepage.

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