

E.ON Värmekraft Sverige Modern installation concept for higher safety

Thanks to an innovative concept, G+H Noise Control replaced the silencer baffles of the G12 (gas turbine) at the Halmstad power plant in Sweden in just one month.



Insulation

Fire Protection

Noise Control

The E.ON power plant in Halmstad produces electricity from conventional fuels like oil and gas. It has two gas turbines with a power output of over 200 MW. Since the turbines are up to full power in only 15 minutes, they are used to cover peak load demand and stabilize the power grid. They can therefore be run up quickly if there are malfunctions at other power plants, and thus ensure a continuous supply of power.

CUSTOMER

E.ON Värmekraft Sverige AB

PROJECT

Replace baffles on the G12,
Halmstad power plant, Sweden

PERIOD OF EXECUTION

07/2012–08/2012



The installation of silencer baffles in exhaust systems ensures the operational safety of power plants in terms of noise control without hindering the flow of exhaust air out of the gas turbines. Replacing damaged baffles is essential not only to maintain noise protection, but also to preserve the mechanical protection. The baffles in the Halmstad power plant, which are up to seven by eight meters in size, are located in the silencer baffle

housing below the flue pipe. Since the flue pipe has a smaller diameter than the baffles, it is necessary to deinstall and then reinstall the flue pipe when replacing the baffles. As this is costly and time-consuming, G+H developed a concept that allows faster replacement of the baffles through the shell of the chimney. Using an on-site lifting and sliding system G+H was able to guarantee the replacement in less than half the usual time.



TASK

- Replace the silencer baffles on the G12 of the power station
- Eliminate any mechanical damage
- Avoid high cost and effort of replacement

SOLUTION

- Development of an innovative installation concept based on an on-site lifting and sliding system
- Reinforcement of the shell of the chimney during structural alteration work

ADVANTAGES

- Very fast replacement of the baffles
- No deinstallation and reinstallation of the flue pipe necessary
- Restoration of noise control and mechanical operational safety