



We reduce the amount of residue generated to a minimum. Any materials left over are treated using environmentally sound processes. If required, we can also arrange for the materials to be collected, transported and sent for disposal

© 2023, BUCHEN EnergyServices GmbH

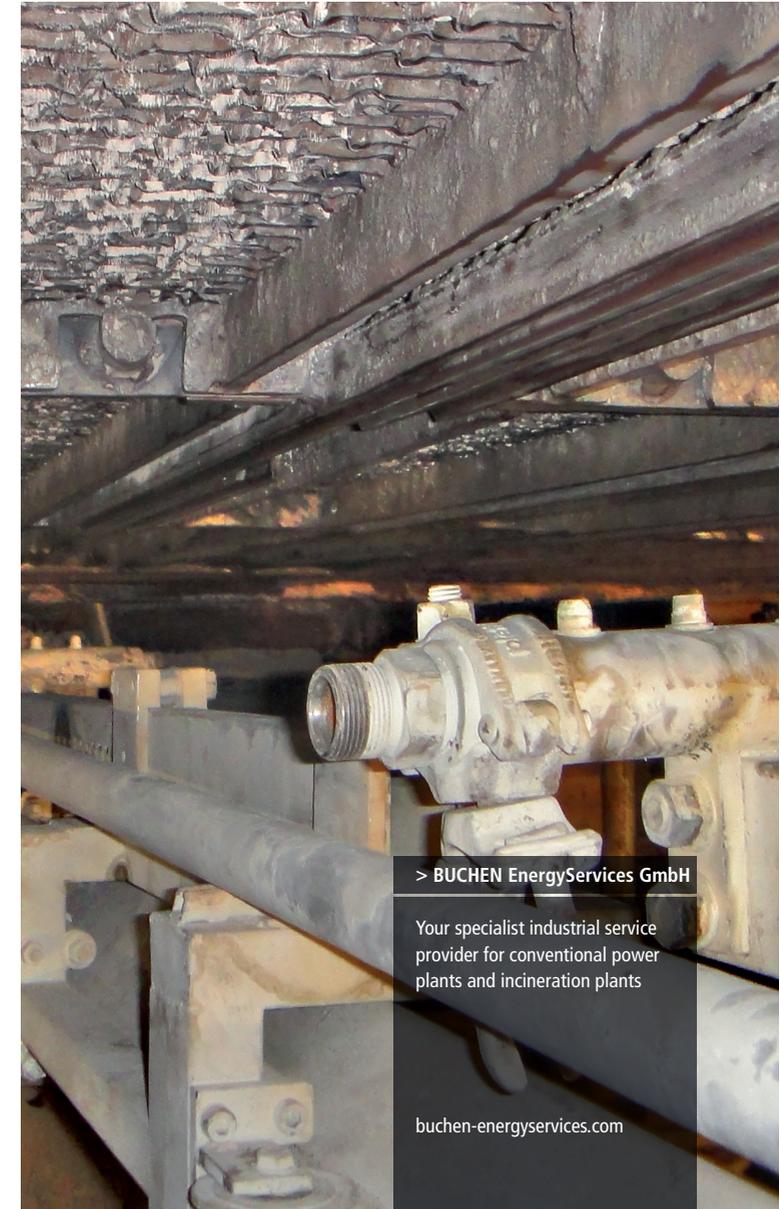
**BUCHEN®**  
WORKING FOR THE FUTURE

BUCHEN is part of the REMONDIS group, one of the world's largest recycling, service and water companies. The company group has branches and associated businesses in more than 30 countries across Europe, Africa, Asia and Australia. With over 40,000 employees, the group serves around 30 million people as well as many thousands of companies. The highest levels of quality. Working for the future.

**BUCHEN EnergyServices GmbH**  
Schloßstr. 36  
44653 Herne // Germany  
T +49 2325 3729-0  
F +49 2325 3729-219  
vertrieb.bes@buchen.net  
buchen-energyservices.com  
A company of the REMONDIS Group

**BUCHEN®**  
WORKING FOR THE FUTURE

## Air preheater cleaning services



> **BUCHEN EnergyServices GmbH**

Your specialist industrial service provider for conventional power plants and incineration plants

[buchen-energyservices.com](http://buchen-energyservices.com)

## Air and gas preheaters

The flue gases (exhaust gases) generated by the combustion process are used in the air and gas preheaters at power plants to heat up the fresh air required for the incineration process. As the fuel does not have to heat up the air, the plant needs fewer raw materials and the boiler's heating surfaces can be made smaller.

If deposits build up on the surfaces of air or gas preheaters, then less heat is transferred and the steam generation process becomes less effective. Some of the fuel's energy must then be used to heat up the fresh air which means it can no longer be used for heating up the water. The negative pressure in the system rises; forced draught fans and induced draught fans are unable to work as effectively as they should. The result: the power plant operates less efficiently than before.



Our system of bars and sliding frames ensures the cleaning process is carried out evenly and does not damage the surface of the material

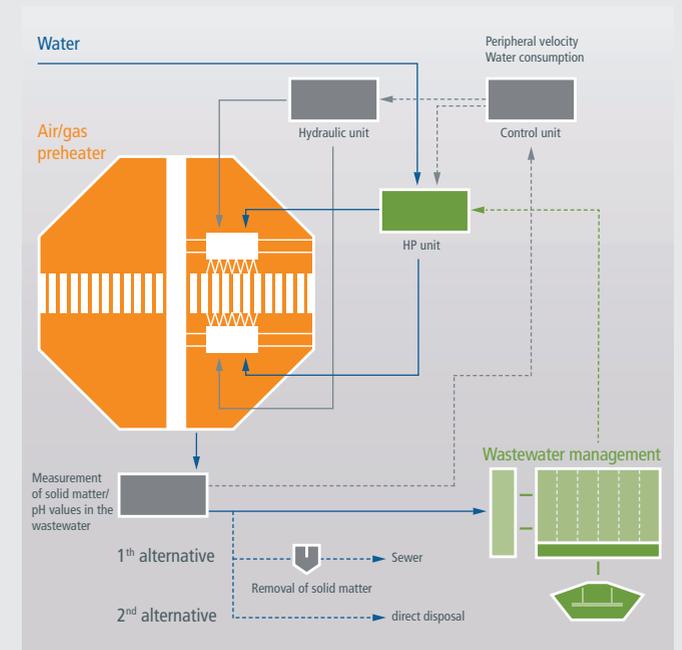


Before and after: the deposits have been removed from the air preheater thanks to our material-friendly cleaning technology

### Efficient technology

BUCHEN EnergyServices has designed and developed its own fully automated, computer-controlled, high pressure water jetting system. This process uses a system of bars and sliding frames, allowing the large volumes of water (pressure up to 400 bar) to be distributed evenly throughout the preheater – making it a quick and material-friendly method.

The hot and cold sides of the air preheater can be rinsed at the same time, with the whole of the surface being covered to the exact millimetre. This mobile system is self-contained, needs only electricity and water and can be used to clean Ljungström and Rothemühle models. By varying the pressure and the volume of water, we are able to remove even the most stubborn of deposits within no time at all. If requested, we can also handle and manage the wastewater.



### > Your advantages

- A clear increase in efficiency rates
- Optimum cleaning results
- Heat transfer in acc. with planning data
- A clear reduction in differential pressure
- Shorter cleaning times
- Energy savings
- Shorter shutdowns
- Increased levels of health & safety
- Less water is needed and less wastewater generated