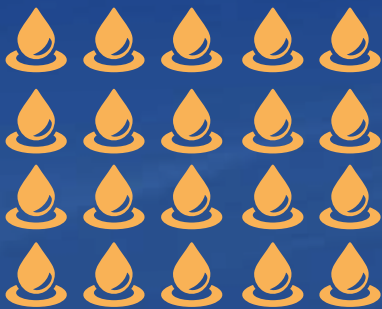


TECHNICAL CASE STUDY

Chilton Power Station

Activity: High pressure cleaning for the energy sector

AT A GLANCE



Our high pressure water jetting solution can pump

250

litres of water a minute



Purpose-built

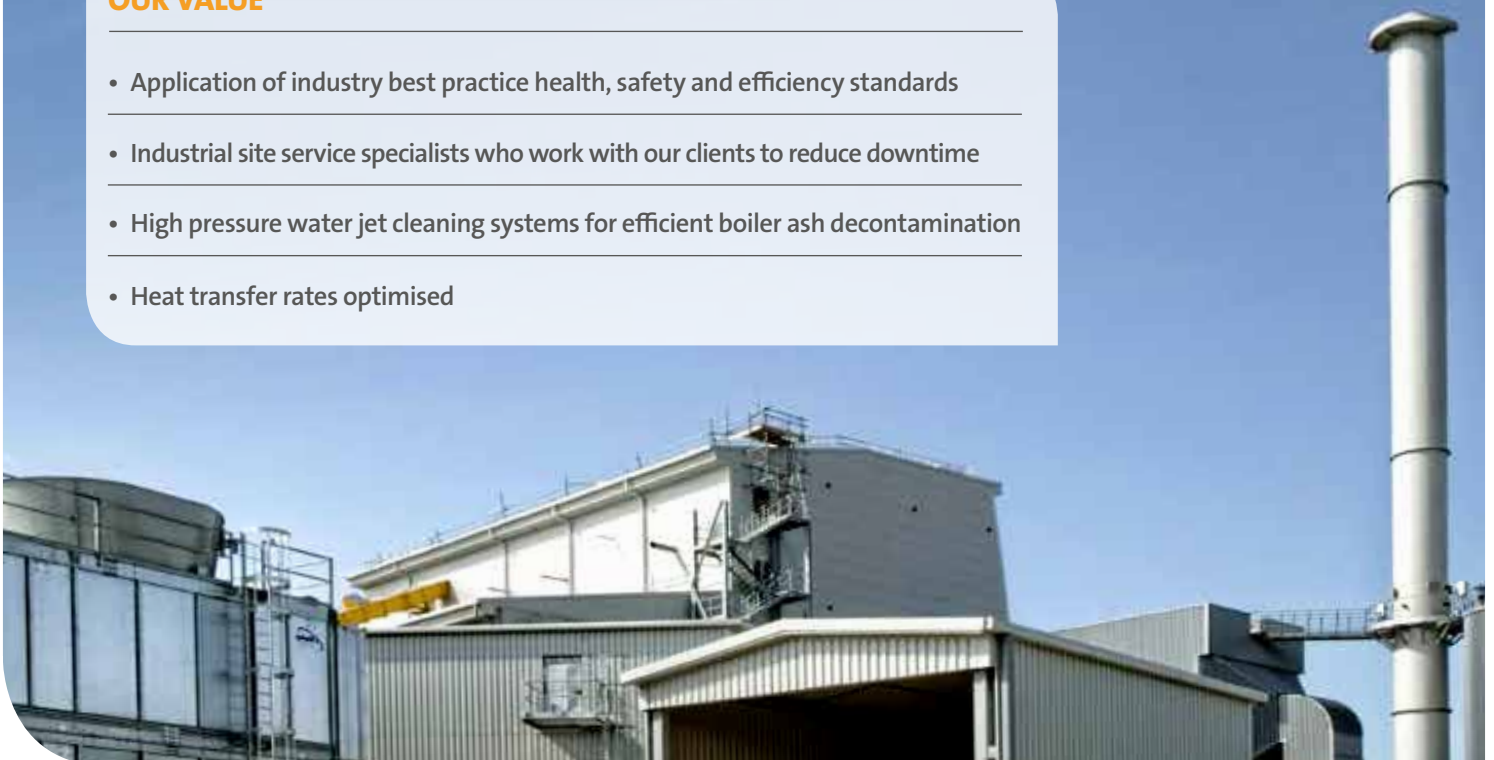
for confined space
boiler cleaning

IN MORE DETAIL

Chilton is a 17.5 MW biomass-fired power station located in Chilton, County Durham. Fuelled by 120,000 tonnes of waste wood per year, it generates enough electricity to power 23,000 homes. Veolia was tasked with removing boiler ash contamination from the economiser pre-heater, while maintaining productivity and operative safety.

OUR VALUE

- Application of industry best practice health, safety and efficiency standards
- Industrial site service specialists who work with our clients to reduce downtime
- High pressure water jet cleaning systems for efficient boiler ash decontamination
- Heat transfer rates optimised



TECHNICAL CASE STUDY

Chilton Power Station

Activity: High pressure cleaning for the energy sector

Contract facts:



Working with
Chilton Power Station
since 2011



Duration:
Annual



Location:

Chilton, County Durham

Thanks to Veolia, Chilton Power Station can safely and efficiently decontaminate its boilers, without compromising its power supply

The challenge

Chilton Power Station needed to reduce downtime and maintain an uninterrupted power supply. It also needed to:

- Allow for cleaning time to maximise thermal heat transfer efficiency
- Reduce the health and safety risks and slow speed of manual water jetting
- Meet best practice guidance set by the Association of High Pressure Water Jetting

How we did it

Veolia's Teesside Industrial Services team proposed an automated system based on high pressure water jetting. The system can pump 250 litres of water a minute and is purpose-built for confined space boiler cleaning.

High Pressure Water Pumps

- Pressure: 1,000bar
- Flow rate: 250 LPM
- Power: 450 HP
- Fuel consumption: 50 Diesel Litres per hour
- Model: Hammelmann & WOMA, Germany
- Chassis: Articulated Semi-trailer
- Engine: Mercedes V12 Twin Turbo

The results

- Reduced safety risk for operatives by reducing confined space entry and asphyxiation risk
- Consistent cleaning standards through timed processes
- Reduced downtime and longer production periods
- Industry recognised best practice standards

The final word

"In comparison to the other specialist service providers used on-site for similar work, Veolia stand head and shoulders above them. All work is undertaken to a high standard and craftsmanship, delivered on time and safety is never compromised. The ethics and attitude of the workforce is second to none"

Andy Duncan
Plant Manager

