

POWER PLANT CASE STUDY

OVERVIEW

It is common maintenance practice in the power production sector to temporarily shut down fossil fuel or nuclear power plants in a process referred to as "mothballing".

With these short-term shutdown periods, it means that essential maintenance can take place. This includes repairing or upgrading boilers / turbines, as well as cleaning and servicing pumps / valves.

There are also thousands of square metres' worth of painted steel in a power station. This will require regular maintenance too; re-coating to prevent any damage created as a result of corrosion.

All of this repair work can be expensive, yet it is all necessary. Such power plants are often located in extreme environments, which makes mothballing and recoating processes much more challenging.

With our temporary climate control solutions, you can control moisture and temperature levels in a power station; creating the ideal environment in which to carry out a successful repair programme.

APPLICATION

A desiccant dehumidification system can be used to passivate steam side pipes; keeping corrosion in check and reducing reliance on costly nitrogen purging. Our systems can enhance the conditions for the recoating of steel surfaces in a facility too.

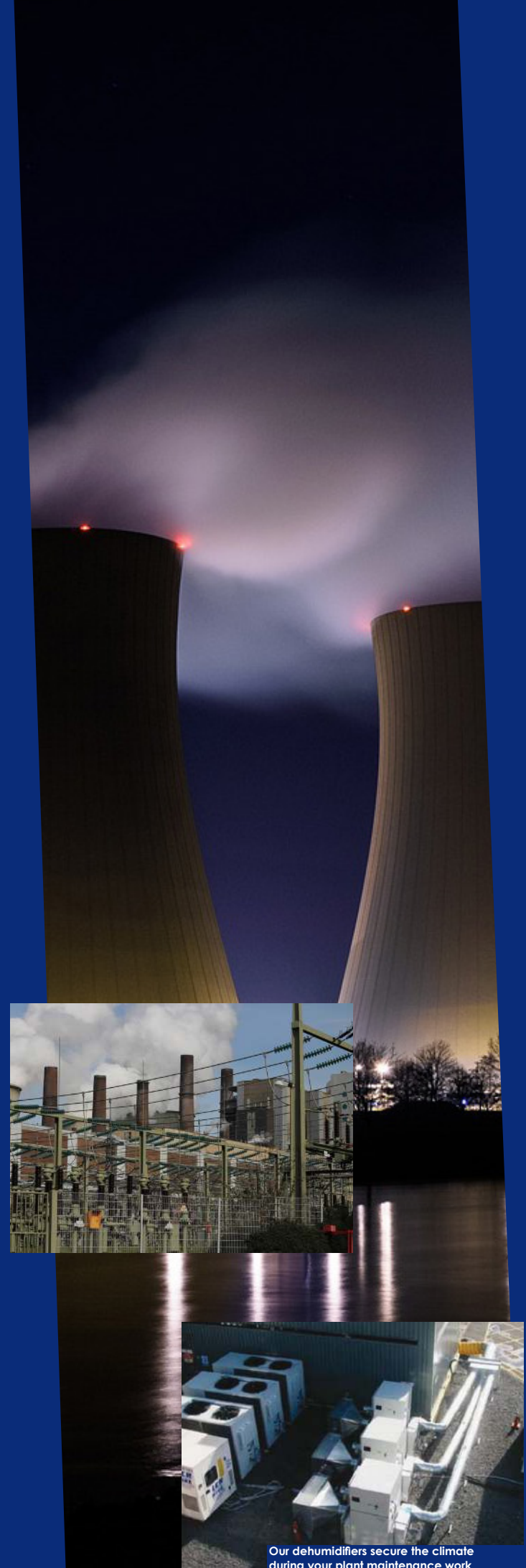
The shutdown process can prove very expensive; not least when it comes to the re-commissioning. Thanks to our expertise and equipment, however, we can help. Our systems can guarantee a plant climate, while reducing overall shutdown costs.

To ensure the best results during the mothballing of a plant is to ask for solutions that demand the finest equipment, innovation and vast expertise. With Cross Hire, that's exactly what you will get...

PROCEDURE

To tailor equipment to the specific needs of each power station, we require the following details:

- Size of the steam pipes / vessels
- Ventilation rates
- External weather data
- Product specifications
- Equipment opening and exits
- Site logistics



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PROCEDURE

This information is compiled, analysed and used by our skilled technicians to select and engineer the most suitable equipment for any power plant outage or maintenance programme.

Our team will service and check the equipment, ducting and ancillary items before we deliver to site. We then set it up in a designated area, close to a power supply and ensuring safe operation.

With our superb quality, state-of-the-art desiccant dehumidification systems, the ambient air is deep dried; ensuring the moisture level in the pipe is low enough to keep corrosion growth fully in check.

Our temporary cooling and heating equipment is also supplied to control temperature conditions in a power plant, which can impact the curing of a specific coating type or overall working conditions.

RESULTS

Our dehumidification system allows you to closely control conditions to maintain surface dew point and temperature throughout the entire shutdown.

Our technology also ensures your contractor can meet the project specifications, while maximising efficiency and delivering the best results possible.

Our temporary climate control solutions...

- Provide a safer and cost-efficient scenario at start-up
- Provide a safer alternative for passivating steam pipes
- Eliminate the blast and coat cycle
- Reduce weather-related work delays
- Improve production rates and quality of work
- Extend coating life by providing the optimum conditions during the application process
- Allow a monolithic spray of each coat under proper climatic conditions
- Provide the ideal humidity and temperature conditions for 'holding the blast'

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A power plant during maintenance. Some parts are covered to maintain the required climate conditions.