

Electrostatic precipitator services

Improving air quality and meeting emissions targets through electrostatic precipitator services



COSTAIN

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How Costain can help

Costain delivers service solutions in all areas of electrostatic precipitator inspection, overhaul, and upgrade. Our team has considerable experience, coupled with a strong client service focus which enables us to deliver best practice.

Electrostatic precipitators are renowned for their high efficiency and low operating costs, and can collect both sub-micron and coarse particles achieving operating efficiencies of 99% to 99.9%.

Regular inspection regimes conducted by specialist personnel during planned outages and stop periods enable problems to be identified early. Repair and maintenance procedures can then be instigated. This resolves faults and prevents failures occurring whilst the plant is online, which can result in lengthy and costly unscheduled plant outages.

Industry challenges

Our clients within the power generation, cement and minerals, steel manufacturing and industrial sectors face ever stringent emission limits and environmental legislation requirements. These requirements vary depending on the location of the facilities. With ageing assets and reduced operating regimes, our clients face increasing challenges ensuring plant availability and reliability.

Contact



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- 30 years' experience within the UK air pollution control industry
- In depth knowledge of electrostatic precipitators and their operating problems
- Air pollution control and compliance

Services

- Inspection and troubleshooting services
- Electrical/control system support
- Plant optimisation
- Full electrostatic precipitator performance review
- Emission testing
- Planned and preventative maintenance programmes
- 24 hour call out for emergency repairs
- Spare parts for all designs of electrostatic precipitator.

Benefits

- Flexible workforce, able to mobilise and react at short notice
- Regular inspection regimes during planned outages and stop periods enable problems to be identified early and minimise operational impact
- Repair and maintenance procedures instigated to resolve faults and prevent failures occurring in the future
- Reducing the need for lengthy and costly unscheduled plant outages.



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Case study

A major UK power utility

Requirement

Costain secured a contract with a major UK power utility to provide electrostatic precipitator (ESP) inspection, repair and maintenance, spare parts, and upgrade services for one of their coal fired power stations.

Industry challenges

All UK coal fired power stations have electrostatic precipitator installations to prevent emissions of particulate and ash to atmosphere. Electrostatic precipitator maintenance is outsourced to companies like Costain due to the specialist plant knowledge and expertise required. Precipitator performance is critical to this client's ability to operate within stringent UK emission limits.

Solution

The contract was awarded just three weeks before a major outage was due to start, and Costain was able to mobilise and resource a suitably experienced team at very short notice.

We were on site, inspecting and surveying the electrostatic precipitators within a week of the unit coming off load.

The outages ran in parallel with many other major outages at UK power stations and the Costain team conducted precipitator overhaul works using their in-house supervisors and experienced site operatives.

As well as outage inspection, repair and maintenance services, the Costain team assisted the client with plant upgrade advice, precipitator optimisation, and management and sourcing of ESP spare parts.

Outcome

The services provided by Costain resulted in improved particulate emissions, improved reliability and efficiency and prevented untimely and costly unscheduled outages due to breakdowns.



Costain is the proud holder of the Royal Society for Prevention of Accidents (RoSPA) President's Award. The President's Award is achieved by maintaining a high safety standard and ten consecutive gold awards.

