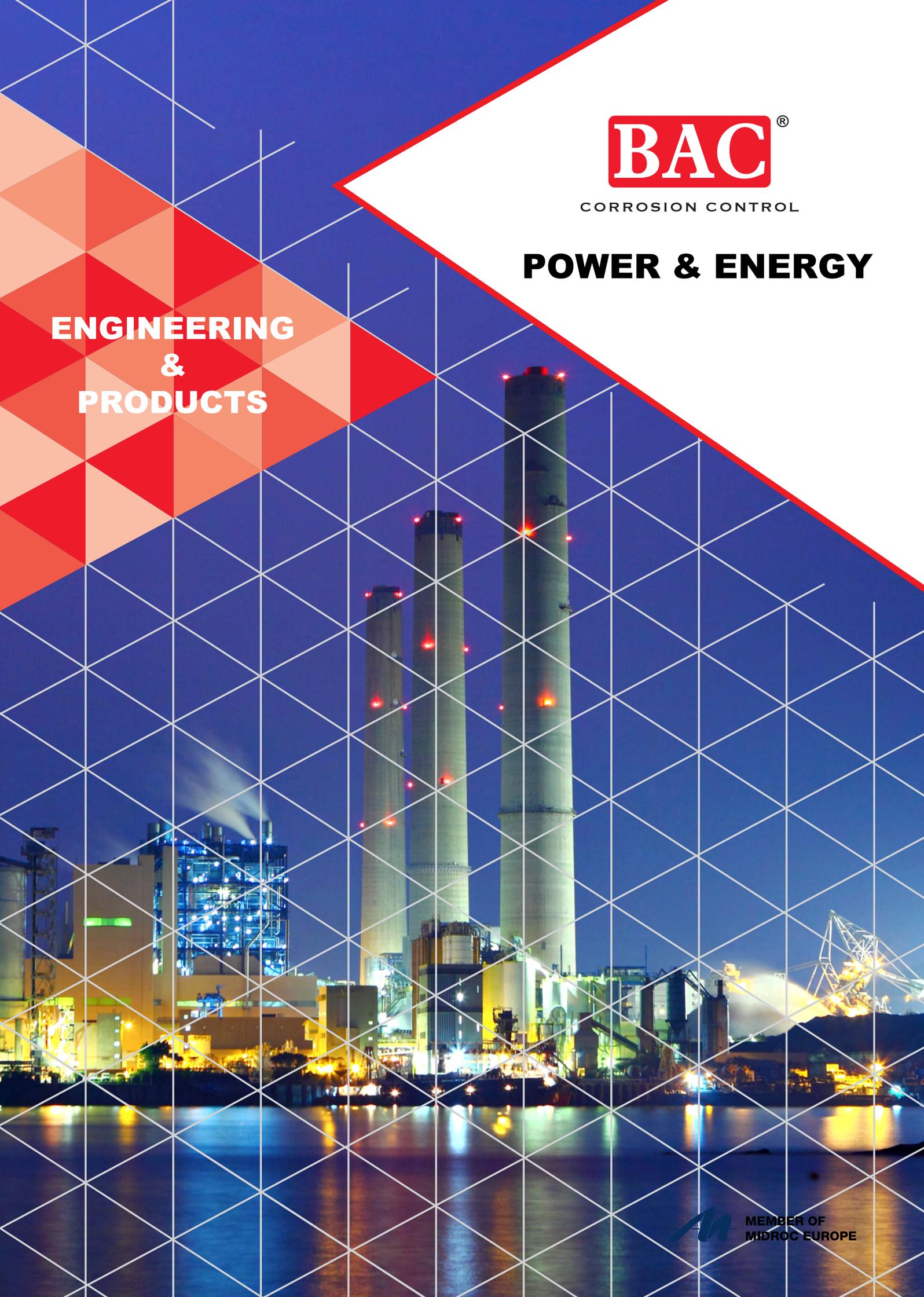




CORROSION CONTROL

POWER & ENERGY

**ENGINEERING
&
PRODUCTS**



 MEMBER OF
MIDROC EUROPE



CORROSION CONTROL

BAC has built a reputation for providing technically sound and cost effective solutions for corrosion control through CP to complex power station structures.

Overview

BAC has built a reputation for providing technically sound and cost effective solutions for corrosion control through CP to complex power station structures. Protection against internal corrosion can be provided on plant such as filtration screens, pump internals and condenser water boxes. External corrosion can be prevented on buried structures such as cooling water and fuel supply lines. Manual and automatic impressed current or sacrificial anode systems are all available options.

Corrosion control in Power Stations

Corrosion control in Power Stations, whether coal, gas or oil fired or nuclear, is essential to the safe continued operation of the Station. Cooling water systems use vast amounts of water, very often sea water at coastal and estuary stations and therefore are subject to severe corrosion. Due to the elevated temperatures, corrosion rates are considerably increased.

BAC specialised in the design, manufacture and supply, installation, commissioning, monitoring and maintenance of cathodic protection systems for Power Station cooling water systems and any other pipe work subject to internal or external corrosion.

Cathodic protection systems

BAC utilise, in the main, fully automatic impressed current cathodic protection systems, designed and built in our own factory. The designs take full account of the cooling water conductivity, temperature, flow rate and dimensions of the components of the system to provide a custom designed system to fully meet the requirements.

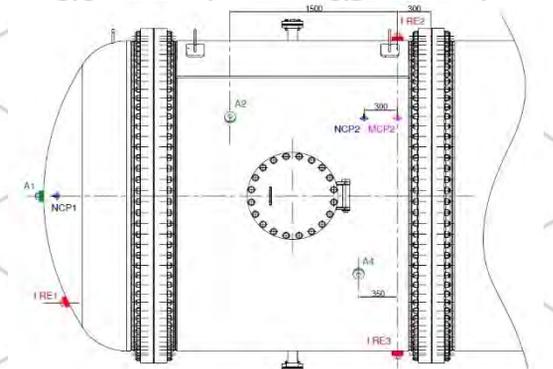
BAC carry out their designs in accordance with international standards under the control of their ISO 9001 certified quality management system. Each design is carried out to customer, national and international standards to ensure that you are provided with a cost effective and technically sound system.



Power plant, pipelines, water intakes, bunding screens & condensers all require corrosion protection



Renewable energy sources need CP too, BAC design internal & external systems for offshore monopoles -



BAC design and supply CP systems for Condensers / Water Boxes



World class CP Power supplies bespoke to your system, manufactured in the UK.



Multi Output Transformer Rectifiers for control over complex plant structures



Mixed Metal Oxide Anodes for Water Intake Channel Structures



CORROSION CONTROL

BAC also provide impressed current or sacrificial anode cathodic protection systems for the external protection for gas, oil and cooling water supply lines that feed the power stations.

Condensers

BAC supply Impressed Current Systems (ICCP) and Sacrificial anode systems for Condenser water boxes with both Cupronickel and Titanium Tubes. BAC Systems can be specifically designed to suit client requirements.

Cooling Water and Intake and Discharge Pipe work BAC have developed Impressed Current Systems (ICCP) systems specifically for the internal corrosion control of Intake and Discharge Pipe work. BAC utilise precious metal anode systems suitable for high turbulent, harsh environments.

Water Intake Areas

BAC supply ICCP and Sacrificial anode systems for the Corrosion Control of Water Intake Areas:

- Stop Logs and Guides
- Intake Bar Screens and Traveling Band/Drum Screens CW Pump Bays
- Headers
- Ladders and Ancillary Fittings
- Sheet Steel Piling

Immersed and Buried External Service Pipe work BAC supply ICCP and Sacrificial anode systems for the external protection of immersed and buried service pipe work within Power Stations. These would include Gas and Oil, Service Water, Fire Mains and Steam Pipes.

Project References	Scope
Erzin CCGT Power Station - Turkey	Design, Supply of ICCP system for Condenser Water Boxes
CCGT Power Station Pasir Gudang - Malaysia	Design, Supply of ICCP system for Cooling Water Intake Structures
Heysham Power Station - UK	CP Systems Upgrade
Baglan Bay Power Station - UK	CP Systems Upgrade, Monitoring and Maintenance
Torness Power Station - UK	Upgrade to Cooling Water CP Systems
Datan Power Station - Taiwan	Design, Supply of ICCP system for Condenser Water Boxes

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