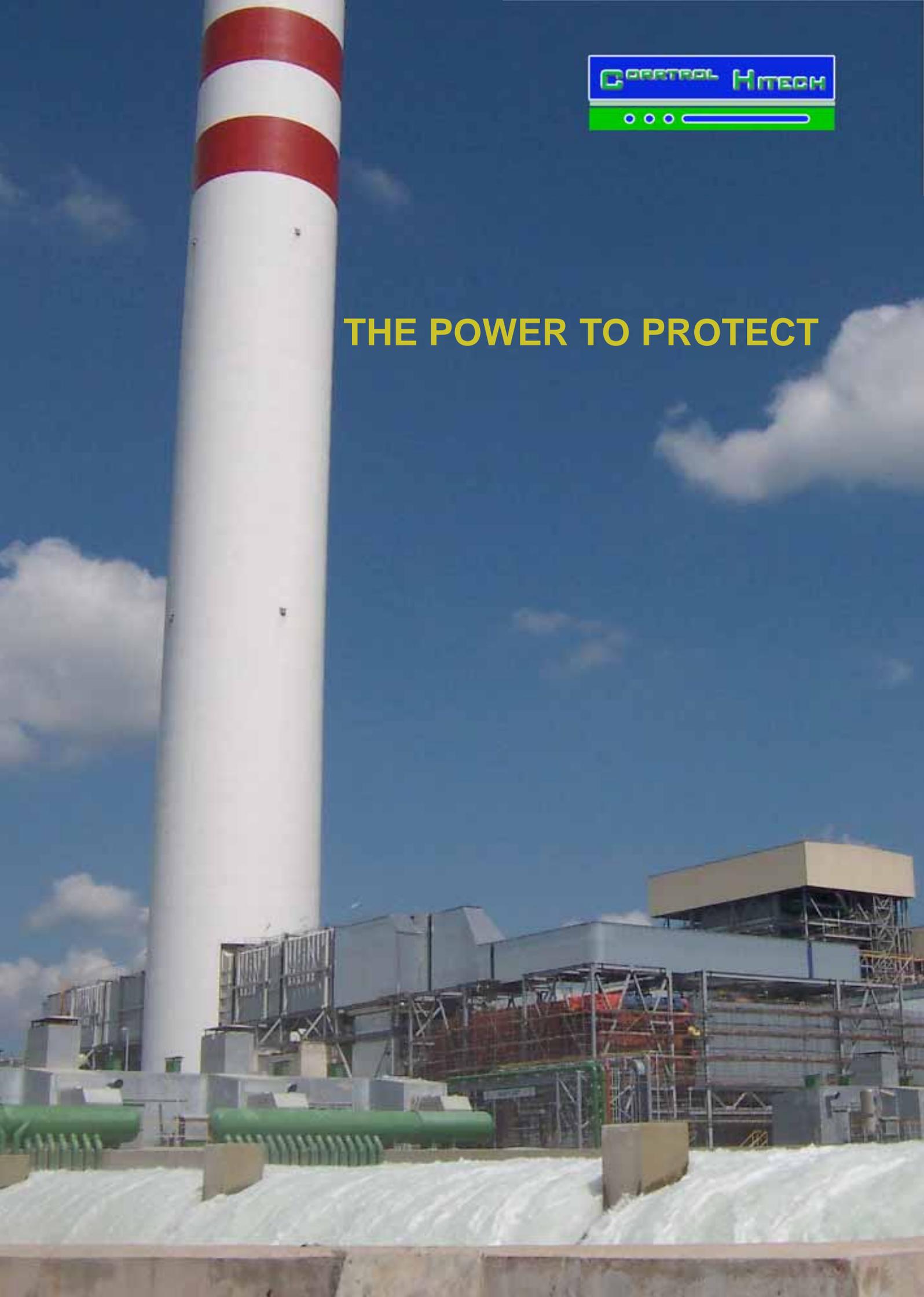




**THE POWER TO PROTECT**





Corrtrol-Hitech Sdn. Bhd. is jointly owned by Corrtrol Sdn. Bhd. of Malaysia and Hitech Engineering Materials and Systems Ltd registered in the UK. The company combines the engineering strengths of Corrtrol with the manufacturing and supply strengths of Hitech and is becoming a leading force in the international cathodic protection industry.

Specialising in design, consultancy, engineering and materials supply the company is staffed with fully qualified and experienced technical and professional personnel certified by NACE.

With its engineering activities located in Malaysia and the bulk of its material manufacture located in China the company offers top performance and quality at highly competitive rates.

For additional information on each of the parent companies please visit their websites at [www.hitech-me.co.uk](http://www.hitech-me.co.uk) and [www.corrtrolgroup.com](http://www.corrtrolgroup.com)



## **INDUSTRIAL CATHODIC PROTECTION**

Industrial cathodic protection includes structures such as above ground and under ground storage tanks, buried pipelines (including pre-stressed concrete), refinery pipe-work, oil and gas well casings, power plant condensers and sea water intake equipment.

**CORRTROL-HITECH STAFF HAVE BEEN ACTIVELY ENGAGED IN ALL TYPES OF SYSTEMS**

-  Design and consultancy service
-  Installation, supervision and maintenance surveys
-  Temporary cathodic protection/sacrificial cathodic protection
-  Permanent cathodic protection/impressed current cathodic protection



## OFFSHORE CATHODIC PROTECTION

Corrtrol-Hitech has successfully completed a wide range of offshore projects. Typical offshore and shoreline structures protected include:



Submerged pipelines



Piles, piers and jetties



Offshore platform jackets



Single buoy moorings

Corrtrol-Hitech staff have been involved in surveys, design, manufacture, testing and commissioning of cathodic protection systems

## CONCRETE CATHODIC PROTECTION

Reinforced concrete is the most widely adopted construction material in the world with its high strength and low cost. Contamination of structures by aggressive chemicals leads to a rapid corrosion of the steel. In turn, this leads to damage to the concrete and eventual failure of the structure.

Corrtrol-Hitech engineers are experts in condition monitoring and cathodic protection of concrete structures and are experienced in both existing and new build structures including bridges, power plant seawater and cooling systems.



## SPECIALISED SURVEYS

Corrtrol-Hitech professionals are experienced in conducting surveys on pipelines and a variety of structures using a range of techniques including:



Non Contact Magnetic Tomography. This is cutting edge technology originating from the Russian Federation and is especially useful when a comprehensive inspection of non piggable lines is required. For further information please refer to our separate brochure and [www.hitech-me.co.uk/pipelinesurvey.html](http://www.hitech-me.co.uk/pipelinesurvey.html)



Soil resistivity measurement (CIPS, DCVG, CDS)



External Corrosion Direct Assessment (ECDA)



Pipeline corrosion modeling

## ABOVE GROUND STORAGE TANKS

Corrtrol-Hitech engineers design cathodic protection systems using the latest technology to ensure long life protection of the external bottoms of above ground storage tanks. Compatibility with secondary containment and double bottom tanks is assured, installation and operating costs are low and optimum levels of protection are achieved.



## ADDITIONAL SERVICES

Corrtrol-Hitech provides complete engineering services, materials and equipment necessary to solve a comprehensive range of corrosion related activities:

- Corrosion and cathodic protection consultancy
- In house training by NACE certified corrosion and cathodic protection specialists
- Specification writing
- Corrosion failure analysis
- Pipeline integrity assessment and management





- Remote monitoring
- Anti fouling systems
- Material supply
- Detailed feasibility studies
- Troubleshooting
- Stray current investigation and mitigation
- HVAC interference mitigation

## CATHODIC PROTECTION MATERIALS



To complete the total corrosion control service Corrtrol-Hitech supplies a comprehensive range of materials - all in compliance with the relevant standards and under strict quality control. Included are:

- Electro-chlorination cells
- Magnesium anodes (all grades and forms)
- Zinc anodes (including ribbon and bracelets)
- Aluminium anodes (all forms)
- Si-Fe-Cr anodes
- Platinised titanium anodes
- Mixed metal oxide anodes
- Carbonaceous backfill
- Zinc tape - thin film anode





- Custom made transformers/rectifiers
- Pipeline/piping corrosion protection wrapping tape
- Survey instruments (DCVG, data logger, pipe detector)
- Reference electrodes/half cells (CuSO<sub>4</sub>, Ag/AgCl, Zn)
- Earthing cells
- Test posts and junction boxes
- Vapour corrosion inhibitor (VCI)
- Insulation flange kits/monolithic joints



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