

# CORROSION CONTROL ENGINEERING

## *Capability Statement*



*SPECIALISTS IN THE DESIGN, SUPPLY,  
INSTALLATION & MAINTENANCE OF  
CATHODIC PROTECTION SYSTEMS  
FOR BURIED OR IMMERSED  
METALLIC STRUCTURES*



CORROSION  
CONTROL  
ENGINEERING

a member of the Eptec Group



## Experience at work for you

**CORROSION PREVENTION SERVICES FROM AUSTRALASIA'S LEADING CATHODIC PROTECTION & CORROSION ENGINEERING SPECIALIST.**

Corrosion Control Engineering (CCE) is Australasia's largest and most experienced corrosion engineering company specialising in all aspects of Cathodic Protection and related fields.

CCE commenced operations in Sydney in 2001. Additional Australian offices were subsequently opened in Melbourne, Brisbane, Townsville, Perth and Adelaide. CCE also has offices in New Plymouth and Auckland, New Zealand. CCE became part of the Eptec Group in July 2022.

Each Regional Office has a Principal Engineer with between 30 - 40 years' experience in the corrosion prevention industry and we have more NACE certified Cathodic Protection Level 2 Technicians, Level 3 Technologists and Level 4 Specialists than any other company in Australasia.

At CCE, we take great pride in completing our projects to the highest quality, safely, on time and on budget.

## Flexible solutions for your business needs

**CCE PROVIDE A CUSTOMISED, TOTAL END-TO-END CORROSION MITIGATION SERVICE.**

Our engineers work closely with our customers to provide cost effective, custom-made solutions to industrial corrosion problems. We can supply a wide range of services and products, but our real strength lies in providing our clients with a complete turnkey service that includes Cathodic Protection design, supply of materials, installation, commissioning and ongoing maintenance.



**COST EFFECTIVE ENGINEERING SOLUTIONS TO PROTECT YOUR CRITICAL INFRASTRUCTURE FROM CORROSION FOR MANY YEARS TO COME....**



### WHAT DO WE DO?

**CCE ARE INDUSTRY LEADERS IN THE USE OF CATHODIC PROTECTION AND MATERIAL SELECTION TO PROTECT BURIED OR IMMERSSED METALLIC STRUCTURES FROM CORROSION.**

We provide corrosion mitigation solutions, services, materials and equipment for these critical assets and more...

- Oil, gas, water and other metallic pipelines
- Steel reinforced concrete
- Mining infrastructure
- Offshore vessels
- Storage tanks / Reservoirs
- Bridges
- Tunnels
- Wharves
- Jetties
- Ports
- Marine
- Shipping
- Fuel Service Stations
- Defence sites & Vessels



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*Our Experience Delivers Solutions*



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*When you need complete corrosion prevention solutions, from design, engineering and field services to installation and testing of the right cathodic protection systems for your application, you can rely on CCE.*

## ENGINEERING SERVICES

Cathodic Protection (CP) design, installation, commissioning and maintenance for a variety of onshore, offshore and civil (concrete) based impressed current and sacrificial anode CP systems.

## FIELD SERVICES

Corrosion Control Engineering deploy highly experienced, qualified engineers and technicians to perform various field testing activities and onsite surveys for routine maintenance and other special projects.

## PRODUCTS, MATERIALS AND TECHNICAL EQUIPMENT

Corrosion Control Engineering stocks and supplies a full range of corrosion control, cathodic protection and pipeline related products, materials and technical equipment.



## A WIDE RANGE OF SERVICES....

Experience and services within the company and its associates cover a broad range of corrosion and related areas. These include:

- Cathodic Protection (CP) design, materials selection & supply, installation, commissioning and auditing for a variety of onshore, offshore and steel reinforced concrete CP systems.
- Offshore CP pipeline and structure surveys, retrofit design & installation.
- Independent review / audit of 3rd party CP designs.
- Pipeline CP & coating defect surveys (including DCVG, CIPS, PCM).
- Client representation for offshore pipeline surveys.
- Low Frequency Induction / AC Mitigation surveys and investigations.
- Earthing system investigations.
- Stray current testing / investigation.
- Plant corrosion audits / assessments.
- Corrosion failures and investigations.
- Pipeline Integrity Engineering & Coatings Consultancy.
- Pipeline Pigging—cleaning, gauging and ILI.
- Project management of pipeline pigging, inspection and integrity management contracts.
- Third Party Pipeline Supervision, Surveillance & Patrols.

## ...FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS

- Oil, Gas, Water & other Metallic Pipelines
- Above and below ground Gas, Fuel and Water Storage Tanks
- Ports, Wharves, Jetties, Marine & Vessels
- Offshore Structures & Pipelines
- Steel Reinforced Concrete, Bridges & Tunnels
- Mining Infrastructure



*Our Experience Delivers Solutions*

# Products, Materials & Technical Equipment

*Corrosion Control Engineering (CCE) is Australasia's leading supplier of an extensive range of CP and pipeline related products, materials and technical equipment.*



All of our offices have access to CCE's products and equipment sales specialists who have many years' experience in our industry. Our regional warehouses stock a full inventory of Cathodic Protection and pipeline related products, materials and technical equipment.

CCE's regional office locations throughout Australia and New Zealand mean reduced shipping costs for products and materials supplied to our customers. Our local presence means we have the ability to expedite the dispatch of materials all over Australasia at short notice, whenever required.

## Products & Materials

**Anodes & Backfill:** CCE offers a large range of anode types and sizes for use in all industries that require protection of equipment and infrastructure from corrosion. Materials include Aluminium, Magnesium, Zinc, Silicon iron, Mixed Metal Oxide, Platinised Titanium, Lead Silver, and Graphite, either standard or specially designed to suit your needs. We also supply Low Resistivity anode backfill materials for anodes and earthing systems. CCE are approved suppliers of Loresco products.

**Zinc & Magnesium Ribbon Anodes:** Zinc ribbon anodes can provide a cost effective, maintenance free method of corrosion control for buried or immersed metals such as iron, steel, aluminium, copper, etc. Extruded magnesium anode ribbon is a flexible anode material generally used in high resistivity water or soil.

**Transformer Rectifier Units (TRU's):** Standard or customised, oil cooled, solar and remote monitoring for impressed current CP systems.

**CP Test Points, Stands, Cabling & Thermit Weld Materials:** CCE supplies a variety of CP test point boxes, associated cabling and exothermic welding materials to suit your needs. Test points can be configured to suit the individual and/or project requirements, and can be supplied to suit the environment. Test points are available in Aluminium, Plastic and Stainless Steel.

**Flange Insulation Kits (FIK's):** Flange Insulation Kits are available for all flange sizes, types, pressure ratings and materials. CCE has distributor rights with a number of manufacturers, giving access to a broad range of gaskets, sleeves and washers. FIK's have proven to be one of the most effective and reliable products for controlling and maintaining the integrity of piping and tank systems under demanding conditions.

**Monolithic Insulating Joints (MIJ's):** Monolithic Insulating Joints are used for the sectioning of main pipelines in the Oil, Gas and Water industries to ensure full efficiency of cathodic protection systems against corrosion. CCE supplies MIJ's manufactured by Zunt Italiana, who have been designing and manufacturing MIJ's for over 20 years. The insulating Joints are designed, manufactured and tested in full compliance with the most stringent international Standards and Client specifications. Fittings are available in flanged, weld/weld and screwed ends.

**Surge Protection & Decouplers:** CCE supplies a range of surge diverters and solid state decouplers to provide continuous and transient AC high voltage/current conduction to earth whilst maintaining DC isolation of cathodic protection systems to specified levels. These are designed to protect personnel and equipment from electrical disturbances. CCE are approved suppliers of Dairyland Electrical Industries products.

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## Products & Materials (continued)

**Reference Cells/Electrodes:** CCE supplies reference electrodes to suit all applications. There are many portable and permanent types available including: Copper/copper sulphate, silver/silver chloride, zinc and special purpose for immersion, burial, or concrete applications. CCE is the Australian distributor for M.C. Miller and Borin, both recognised leaders in the corrosion control industry, offering Reference Electrodes/Half-Cells and other miscellaneous products.

**Pipeline Pigging Equipment:** CCE offers a full range of pipeline cleaning and gauging pigs manufactured by the world's leading suppliers.

**Corrosion & Erosion Monitoring Equipment:** CCE provide corrosion monitoring solutions to the industry. Corrosion Probes, Corrosion Coupons, Wireless Corrosion Monitoring, Erosion Monitoring, Retrieval Tools and many more solutions are available.

**Pipeline Casing Spacers:** Casing insulators are used to support and electrically insulate a pipeline from a casing pipe. Spacers are available in different varieties and pipe diameters.

### Other Associated Products:

CCE regional offices stock a wide range of associated equipment and materials. Our worldwide manufacturing and supply capabilities also include:

- Barrel Unions
- Pipeline repair sleeves
- Speciality cables and heat shrink materials.
- Radolid Caps. Manufactured to suit most nut and bolt combinations, these caps are used in a vast number of industries to protect bolted connections against corrosion.
- Ship impressed current CP systems.
- Electronic descaling systems for ships ballast tanks. Sacrificial zinc and aluminium hull and tank anodes.
- Marine Growth Prevention system (MGPS) - Electrolytic anti-fouling systems.
- Corrosion inhibition for all applications, including vapour phase.
- Thermit welding moulds and weld material
- Linkseals, warning tape, Flowstop bags etc.

## Technical Equipment

Corrosion Control Engineering supply a wide range of cathodic protection and pipeline related technical equipment. Our worldwide manufacturing and supply capabilities include:

- DCVG Pipeline Coating Defect Survey Equipment.
- CIPS - Close Interval Potential Survey Equipment. For close spaced cathodic protection potential surveys on pipelines. Manufactured by MC Miller and distributed by CCE.
- Transformer Rectifiers.
- Data Loggers & GPS Current Interrupters.
- Remote CP Monitoring. CCE supplies a range of Remote Test Point and Rectifier Monitoring systems.
- DC Current Clamp (Swain) Meter.
- Soil Resistivity Testing Equipment. To enable the user to perform the Wenner Four-Pin and Soil Methods.
- Pipeline Locators. CCE supplies the Vivax Metrotech range of locators and current mappers.



## CORROSION CONSULTING & ENGINEERING. CATHODIC PROTECTION PRODUCTS & MATERIALS.

With eight offices located around Australia and New Zealand, CCE are well positioned to assist you with your corrosion prevention and cathodic protection needs.

For more information visit our website or contact your nearest office.

### AFFILIATIONS

CCE are proud to be Diamond members of The Australasian Corrosion Association (ACA) and Corporate members of the Australian Pipelines & Gas Association (APGA) and The Association for Materials Protection and Performance (AMPP), formerly NACE International.



AMPP™



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