

CORROSION  
GROUP

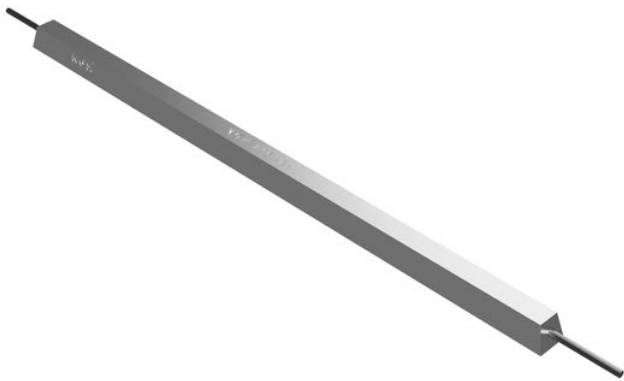
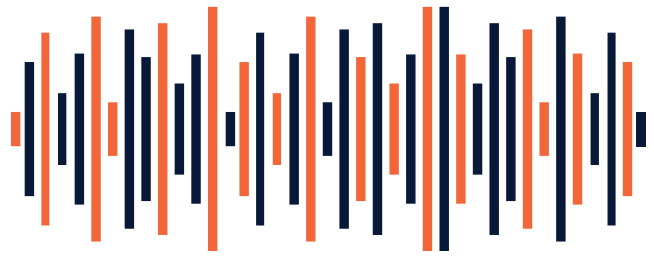


**NoCor<sup>TM</sup>**  
**Marine Cathodic Protection**

*Protecting the future  
since 1989*



# System overview



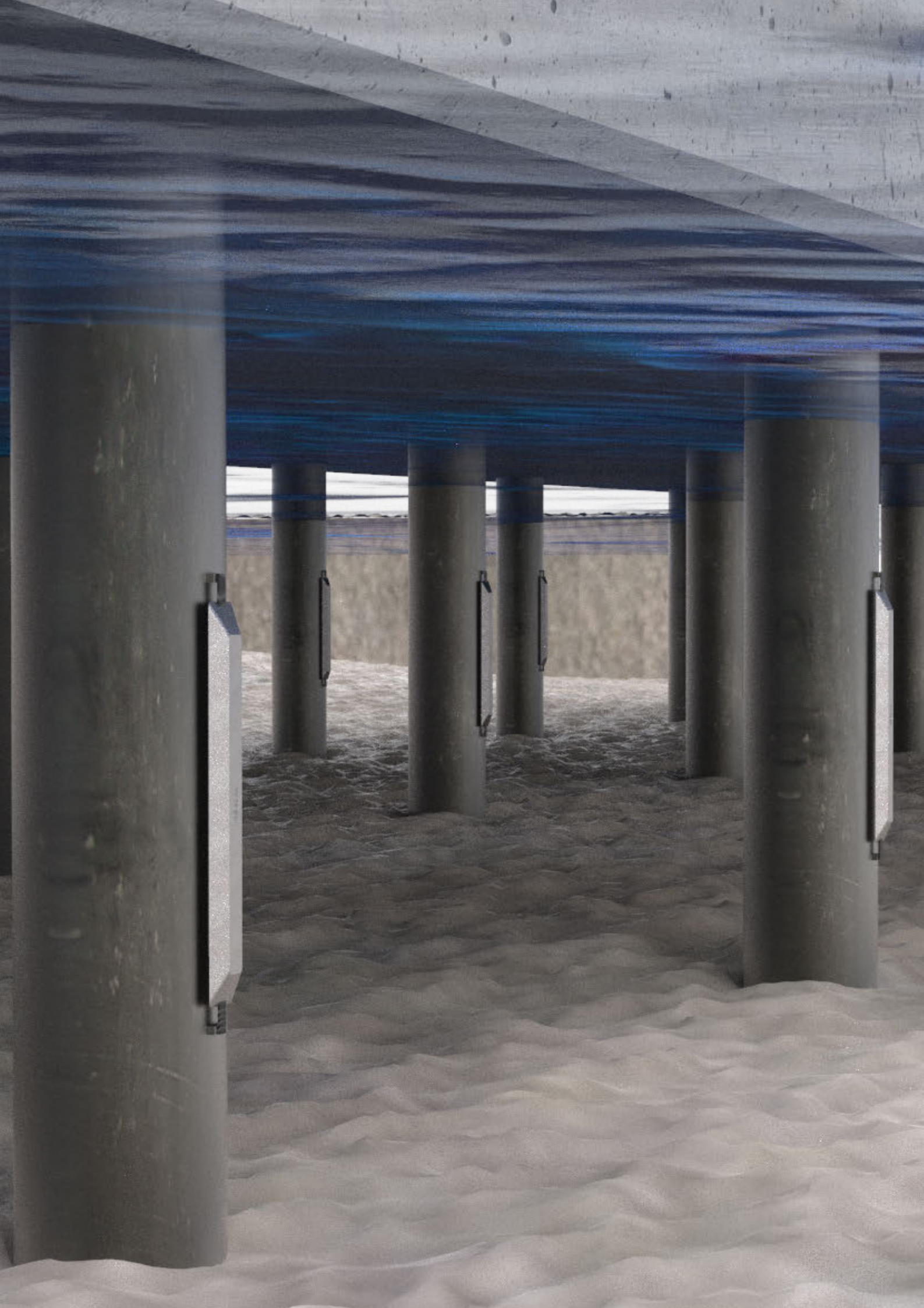
## GALVANIC PROTECTION

Galvanic Protection utilizes sacrificial anodes, typically made of zinc, magnesium, or aluminum, which are electrically connected to the metal structure requiring protection. These anodes corrode preferentially, thus sacrificing themselves to protect the main structure from corrosion. This system is simpler and often used for smaller structures. It requires no external power source but may need more frequent maintenance due to the anode's eventual depletion.



## IMPRESSED CURRENT

*ICCP systems use a rectifier to apply a continuous electric current, making the protected structure the cathode of an electrochemical cell. This method is more controllable and efficient for larger structures, such as Offshore & Harbour structures. ICCP systems require a consistent power source but offer longer-lasting protection with less frequent maintenance needs compared to Galvanic systems. The ability to adjust the current makes it adaptable to different environments and protection requirements.*



# Galvanic protection

## HOW IT WORKS

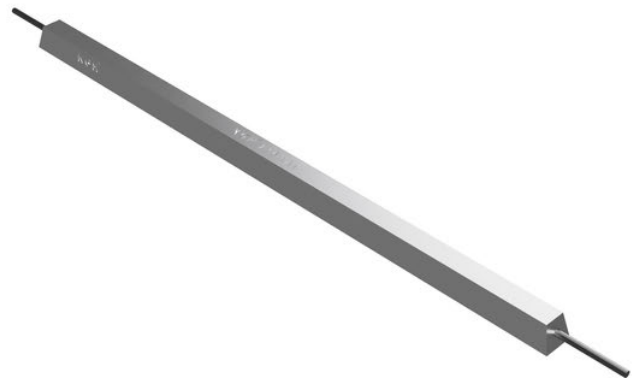
Sacrificial anodes, typically made of Zinc, Aluminium or Magnesium, are electrically connected to the protected metal. These anodes corrode in place of the structure, effectively absorbing the corrosion and preserving the integrity of the protected metal. Good for the environment, and your wallet too!

## ADVANTAGES

Galvanic Protection stands out for its simplicity and cost-effectiveness. It's particularly suitable for smaller structures, requiring no external power source and offering reliable corrosion prevention.

### Application areas:

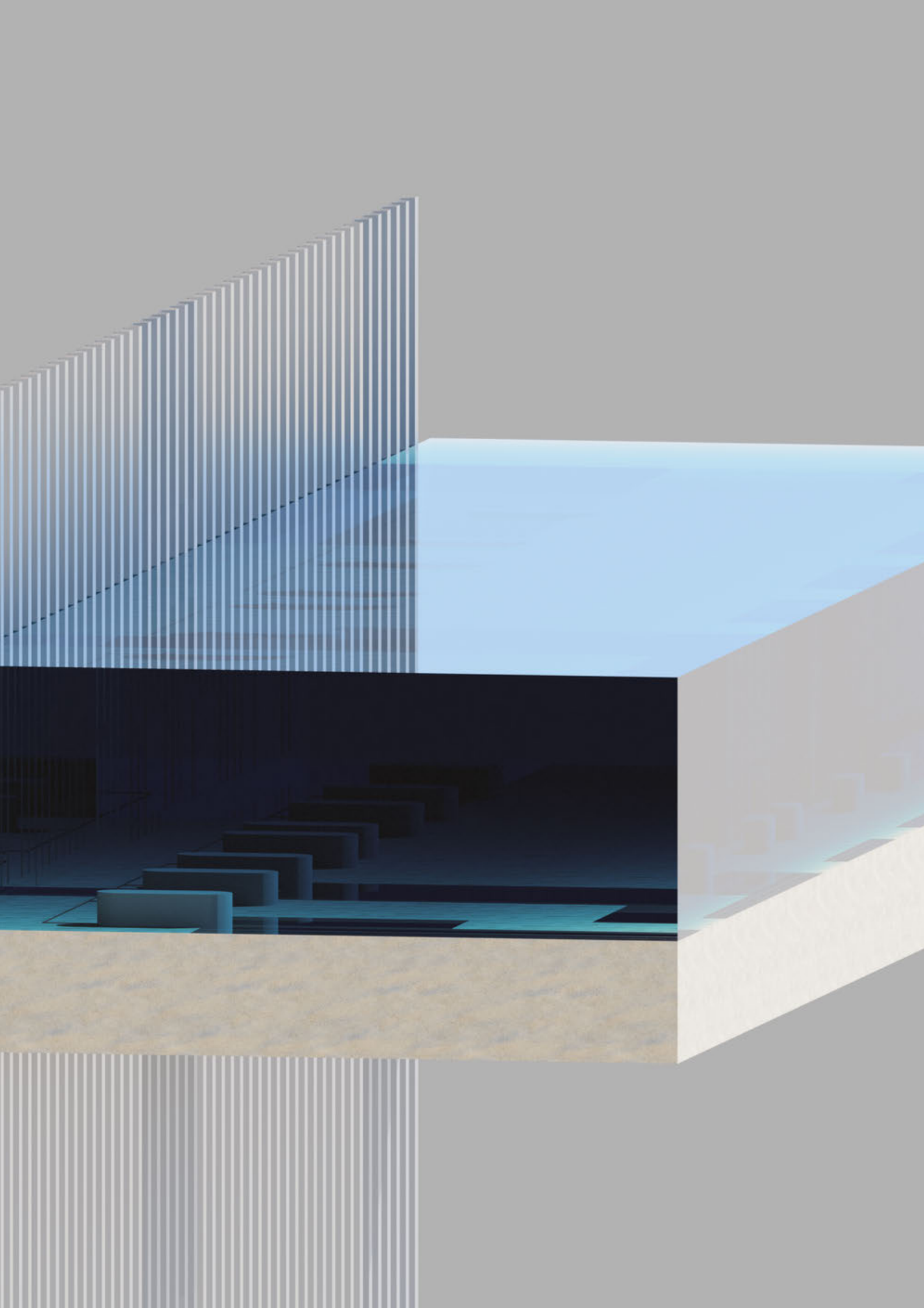
- Commercial and military ships
- Offshore oil and gas platforms
- Port structures and piers
- Underwater pipelines and cables
- Floating production storage and offloading (FPSO) units
- Subsea equipment and structures
- Coastal infrastructure vulnerable to saltwater corrosion



## CASE

Gothenburg Port Authority

- Skandia harbour
  - Length: 2200M
  - Depth: 6-14M
  - System: Galvanic
- 
- Result: Full protection, corrosion eliminated.



# IMPRESSED CURRENT

## HOW IT WORKS

ICCP employs a rectifier to apply a controlled electric current, transforming the protected structure into a cathode within an electrochemical cell. This setup allows for precise corrosion control, adaptable to varying environmental conditions and structural needs.



## ADVANTAGES

ICCP offers unparalleled corrosion protection in the diverse marine segment, encompassing not only ships but also offshore platforms, harbors, and marine structures. Its adaptable nature ensures effective corrosion control in various marine conditions, significantly reducing maintenance needs and enhancing the lifespan of a wide range of marine assets.



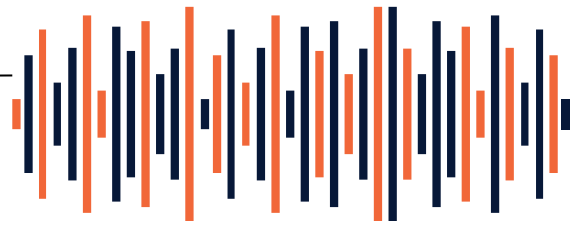
### **Application areas:**

- Commercial and military ships
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**NoCor<sup>®</sup>**

*Re-inventing Corrosion Protection*



# Enhancing Safety with Remote Corrosion Protection Monitoring

At Corrosion Group, we have implemented a cutting-edge remote monitoring system for cathodic protection for maritime operators, ensuring efficient management of corrosion and maintaining a safe environment. Our system offers real-time updates, alerts, and continuous data collection, empowering asset owners to optimize operations and minimize risks associated with corrosion damage.

## Key benefits:

- Advanced corrosion control: Utilizes cutting-edge technology to prevent corrosion-related issues.
- Real-time data and alerts: Offers instant notifications on cathodic protection performance.
- Enhanced safety and sustainability: Contributes to a safer environment
- Cost-effective solution: Reduces overall operational costs and increases ROI.
- Easy integration: Seamlessly integrates with existing infrastructure





GSM transmission &  
GPS synchronisation



100 % fully  
automatic  
protection



Interactive touch  
display



Data, anywhere  
you are



Smartphone  
control &  
monitoring



# Digitalized & fully automatic Corrosion Control

A man with a beard, wearing a flight suit and gloves, is holding a glowing, transparent globe with a grid pattern. The globe is illuminated from within, casting a warm orange glow. The man is looking down at the globe with a focused expression. The background is dark and out of focus, suggesting an industrial or workshop setting.

**Support when you need it.  
Globally.**

*Since 1989*



**CORROSION  
GROUP**

## SINCE 1989

Corrosion Group has been a leading force in Scandinavia's cathodic protection sector since its establishment in 1989. With its headquarters in Ramlösa, Helsingborg, in southern Sweden, the company has carved out a strong presence in various business areas, including marine, industry, pipelines, and consultations, often extending its expertise to international projects.

## OUR ETHOS

The company's ethos revolves around being at the forefront of the cathodic protection market, providing top-quality materials and services, always on designated time.

# OUR HISTORY

## 3 DECADES

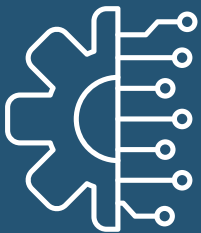
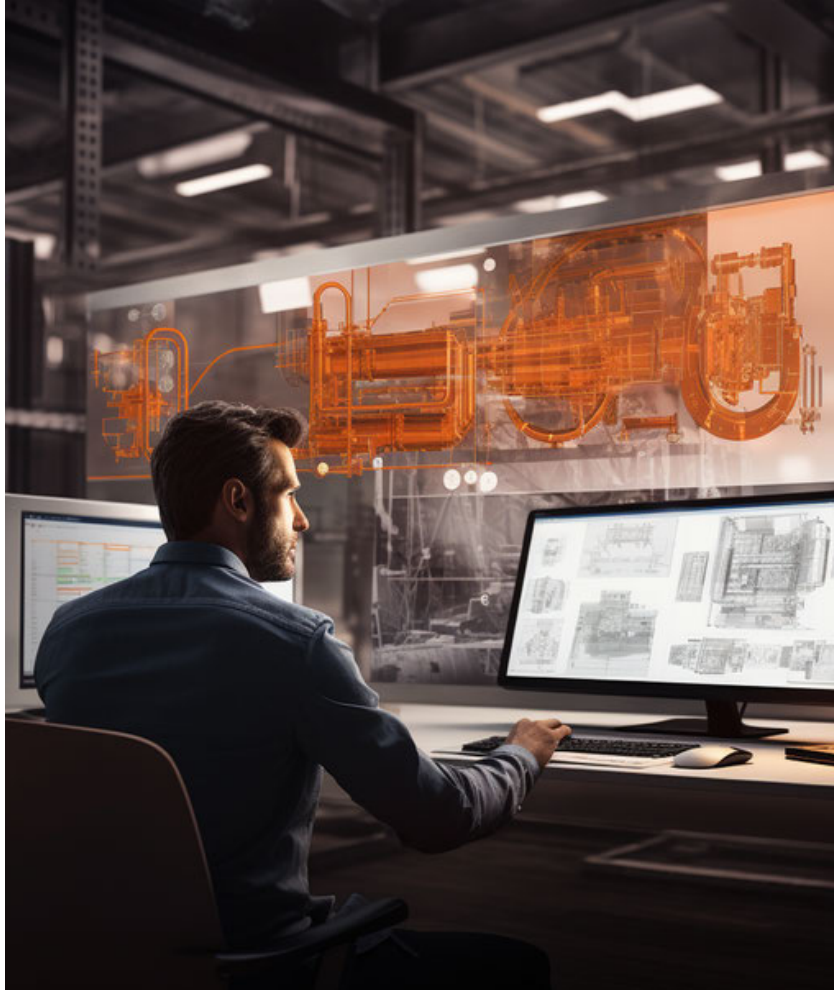
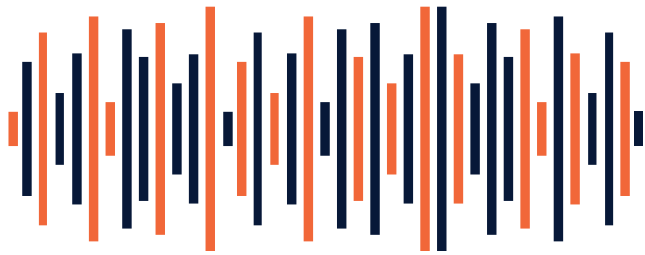
of experience have honed our processes, which encompass project planning, material handling, and on-site installation, tailored to client-specific conditions.

Following installations, Corrosion Group delivers comprehensive reports that are easy to understand, offering suitable actions and results to ensure effective corrosion prevention.

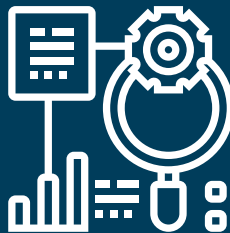
This narrative reflects Korrosionsgruppen's dedication to maintaining the integrity of metal structures, with a clear mission to lead and innovate within the industry.



# Our services



Corrosion Prevention  
Design & Engineering



Corrosion inspection &  
Service



Corrosion Advisory  
& Education

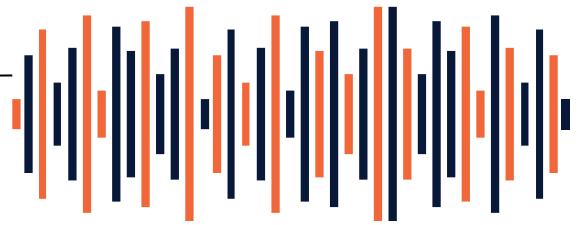
## DESIGN & ENGINEERING

In the labyrinth of industry, our Design & Engineering team architects the future of metal longevity. With ingenuity at our core, we draft the blueprints of durability, merging traditional practices with avant-garde cathodic protection techniques. Our engineered solutions are the stronghold against corrosion, meticulously crafted to fortify the metallic foundations of civilization. We don't just design; we engineer legacies.

## INSPECTION & ADVISORY

*Our mission is clear-cut: to identify and combat corrosion wherever it threatens. Our 'Inspection & Service' teams provide meticulous assessments and tailored service plans, ensuring the structural resilience of metal assets. Simultaneously, our 'Corrosion Advisory' service translates complex data into strategic prevention, arming clients with the knowledge to protect their investments. Together, these services create a comprehensive defense against the relentless tide of corrosion, safeguarding the future of our infrastructure.*

THE FUTURE IS HERE



## CLIENTS



SWEDISH ARMED FORCES



SKANSKA



SAAB



VATTENFALL



# INDUSTRIES WE SERVE

A few, but not limited to.



Nuclear



Water



Offshore



Energy



Military



**CORROSION  
GROUP**

**Protecting the future  
– Since 1989**

[WWW.CORROSION-GROUP.COM](http://WWW.CORROSION-GROUP.COM)

[info@korrosionsgruppen.se](mailto:info@korrosionsgruppen.se)