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**CORROSION &
ANTI FOULING
SPECIALISTS**
Protection is in our nature

ABOUT

OES Group are the market leader in the Design, Certification, Manufacturing and Installation of Cathodic Protection and Marine Growth Prevention Systems.

OES have a dedicated team of certified Cathodic Protection Engineers as well as an in-house Marine Engineering department with structural design discipline. This level of experience combined with complete in-house FEM based modelling of our product line ensure

OES Group can offer the strongest technical and commercial support for our client's projects ensuring maximum optimal performance of their valuable assets.

We are unique in the market with complete in-house manufacturing which allows ongoing technical support with reduced lead time of delivery.

OES Group pride themselves on being a one stop shop for all Marine Growth and Corrosion Protection systems ensuring clients receive the best solution for their assets. As a manufacturer of all types of system we offer a supportive, unbiased and as such competitive approach to protecting our clients' requirements.

LOCATIONS



UK Facility

- Located in Newcastle, UK
- 500m2 Dedicated Foundry
- 1500m2 Dedicated Fabrication and assembly
- ISO Certified CP and Anti Fouling Facility

NL Facility

- Located in Rotterdam, NL
- 600m2 Dedicated Electrical Workshop
- 150m2 Dedicated State of The Art Training Facility
- EN 15257 CP Certified Personnel

ACCREDITATION



MARKETS

OES Group work in a variety of marketplaces. Anything submerged or using seawater is where OES Group can offer our innovative solutions. Forward thinking and the highest quality of in house manufacturing ensure we offer lifetime solutions for reducing cost and maintenance while ensuring absolute asset integrity.



Offshore Renewables

- CP Design & Certification
- The markets leading Impressed Current Cathodic Protection Systems offering environmentally friendly life extended corrosion protection solutions



Maritime

- Impressed Current Cathodic Protection systems offering a vessel life fit and forget corrosion protection strategy
- Sacrificial anodes in high quality aluminium and zinc alloys for all areas of a vessel (hull, sea chests, rudders, propulsion systems, propellers, thrusters and ballast tanks)
- Marine Growth Prevention Systems for seawater cooling systems and box coolers

MARKETS



Oil & Gas

- Impressed Current Cathodic Protection and Galvanic Anode Cathodic Protection systems for protection of all submerged assets such as foundations, manifolds, semi submersibles, FPSO's and various ancillary equipment.
- Marine Growth Prevention Systems for seawater cooling systems and seawater lift pumps.



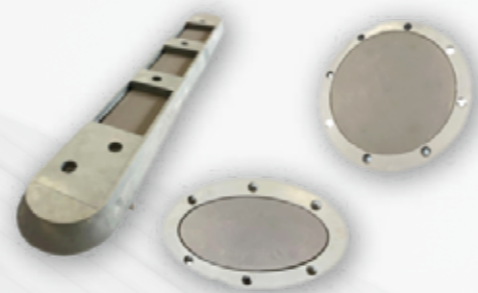
Port & Harbour

- Design, Manufacture, Installation and Service for Impressed Current Cathodic Protection and Galvanic Anode Cathodic Protection systems for protection of tubular, sheet wall and combi wall foundations

PRODUCTS

ICCP

The Impressed Current Cathodic Protection (ICCP) method of corrosion control utilises a DC power source with high efficiency anodes controlled by reference electrode sensors. These systems are commonly used on large structures and buried structures due to their ability to provide high current output and offering a much larger protection range. ICCP is the most environmentally friendly method of protection and anode lifetime can be significantly extended. OES Group design and produce all system elements in house for a variety of applications.



PRODUCTS

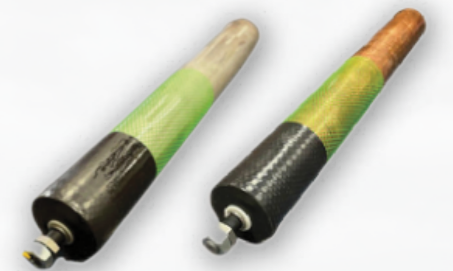
GACP

The Galvanic Anode Cathodic Protection (GACP) method works on the principle of electrically connecting two different metals with each other. As a natural reaction the less noble metal will always protect the more noble. This will create a flow current that protects the cathode. The less noble metal will sacrifice and the more noble will be protected from corrosion occurring. OES produce Aluminium and Zinc Alloy anodes for a variety of applications supported by our large diverse mould range.



MGPS

Marine fouling and biological fouling commonly occur in seawater circulation systems. This involves the establishment of marine plants, animals, and bacterial growth. Hard fouling by mussels, barnacles etc. most commonly occur in seawater circuits and can result in interference to flow conditions, blockages as such and increased corrosion. The OES Marine Growth Protection Systems (MGPS) employs a variation of the well-established impressed current cathodic protection principle. Direct current is applied to the anode(s), which releases a controlled quantity of copper ions into the system to create an environment in which primary forms of marine life do not grow. Accompanying anti corrosion anodes can make up the system also to prevent corrosion of internal pipework.



UBAF

Ultrasonic Based Anti-Fouling (UBAF) is the most environmentally friendly solution for preventing Marine Growth on any submerged asset. Our systems produce multiple bursts of ultrasonic energy in a range of targeted ultrasonic pulse frequencies with a core resonance of 23Khz, through our market leading transducer which transfers the ultrasonic energy to the submerged surface.

The pulses produce a pattern of alternating positive and negative pressure cycles on the surface of the material. Microscopic bubbles are created during the negative pressure cycle and are imploded during the return positive pressure cycle. Thus having a cleaning and agitation effect to the marine growth organism.

