





## CATHODIC PROTECTION SYSTEMS FOR THE RENEWABLE ENERGY SECTOR

# CATHODIC PROTECTION FOR THE OFFSHORE WIND INDUSTRY



#### CATHODIC PROTECTION SYSTEMS FOR OFFSHORE FLOATING FOUNDATIONS

CATHODIC PROTECTION SYSTEMS FOR OFFSHORE MONO PILE FOUNDATIONS AND TRANSITION PIECES



CATHODIC PROTECTION SYSTEMS FOR OSS JACKET FOUNDATIONS







## CERTIFICATION



### LONG TERM TEST RESULTS

### ALUMINIUM

ANODE ALLOY BASE	MEAN ELECTROCHEMICAL CAPACITY [Ah/kg]	MEAH ANODE POTENTIAL VI. SCE [V]	MEAN ANODE POTE/ITIAL va Ag/AgCI/SEAWATER [V]	MEAN ANODE CURRENT DENSITY [A/M <sup>2</sup> ]	ANODE ALLOY BASE	MEAN ELECTROCHEMICAL CAPACITY [Ah/kg]	MEAN ANODE POTENTIAL v3. SCE [V]	MEAN ANODE POTENTIAL vi. Ag/Agci/seawater [V]	MEAN ANODE CURRENT DENSITY [A/M <sup>2</sup> ]
Al-Zn-In BASED (0285-17)	2653 ± 19	-1.120	-1 129	0.58	Zn-Al (TZ15140952/SHGTR14111)	796 ± 14	-1 002	-1.011	0.96

ZINC

WPQRs OWNED



# **PROJECT REFERENCES**

- HORNSEA ONE FOUNDATIONS
- WIKINGER OWF

- EAST ANGLIA ONE
- ATLANTIC WIND FLOAT

- HYWIND
- HORNSEA ONE OFFSHORE SUBSTATIONS

RENTEL

### **OUR PRODUCTS**



### OUR SERVICES

#### CATHODIC PROTECTION SYSTEM TESTING

AS PER THE REQUIREMENTS OF *DNV JL-OS-J202 DESIGN OF OWT STRUCTURES SECTION* **11.4.2.4**, METEC ARE ABLE TO OFFER THE COMMISSIONING OF OUR CLIENTS CATHODIC PROTECTION SYS-TEMS OFFSHORE. OUR ENGINEERS ARE ALL QUALIFIED IN AC-CORDANCE WITH *DNVGL-RP-0416 CORROSION PROTECTION FOR WIND TURBINES SECTION* **5.1** *GUIDANCENOTE* **2** WITH COMPLIANT NACE AND *EN* **15257** CERTIFICATION. ALL ENGINEERS HOLDA MINI-MUNI OF 5 YEARS EXPERIENCE IN OFFSHORE TESTING AND THE MINIMUM INDUSTRY STANDARD FOR OFFSHORE CERTIFICATION IN ACCORDANCE WITH THE GWO CERTIFICATION SCHEME.AS STANDARD WE WILL TEST IN REAL TIME YOUR SYSTEM AND PREFORMANCE AND FUTURE MAINTENANCE TO ENSURE OUR CLIENTS ASSETS CORROSION IS CONTROLLED FOR THEIR PROJECT LIFE CYCLE.

AS WELL AS POST COMMISSIONING AND ONGOING SURVEYS WE ARE ABLE TO OFFER END OF LIFE CORROSION CONTROL EXTENSION RECOMMENDATIONS.





#### DESIGN OF INTERNAL AND EXTERNAL CATHODIC PROTECTION SYSTEMS

METEC GROUP HAVE OVER 20 YEARS EXPERIENCE IN THE DESIGN OF CATHODIC PROTECTION SYSTEMS. THIS LEVEL OF EXPERIENCE ENSURES WE ARE ABLE TO OFFER OUR CLIENT THE MOST EFFEC-TIVEAND EFFICIENT CATHODIC PROTECTION SYSTEM FOR OUR CLI-ENTS ASSETS. OUR ENGINEERS HOLD NACE CATHODIC PROTEC-TION CERTIFICATION AS WELL AS CERTIFICATION IN ACCORDANCE WITH EN 15257 AS REQUIRED BY DNVGL-RP-0416 CORROSION PRO-TECTION FOR WIND TURBINES SECTION 5.1 GUIDANCE NOTE 2.

DESIGN OF CATHODIC PROTECTION FOR RENEWABLE ENERGY STRUCTURES IS A COMPLICATED PROCESS AND SHOULD ONLY BE CARRIED OUT BY EXPERIENCED AND QUALIFIED TECHNICIANS TO ENSURE MAXIMUM PRODUCTIVITY. OUR ENGINEERS HAVE EXTEN-SIVE FOUNDRY AND INDUSTRY EXPERIENCE ENSURING PRODUC-TION DELIVERABLES AND PRACTICALITY AS WELL AS SYSTEM EF-FECTIVENESS ARE ALWAYS CONSIDEREDENSURING THAT OUR CLI-ENTS PROJECTS ARE DELIVERED ON TIME AND IN BUDGET TO THE HIGHEST QUALITY AVAILABLE ON THE MARKET.