CORROSION

STEEL GOING STRONG

SCADA for ICCP Systems

Remote Management and Monitoring

IN DEPTH

Offshore Wind

Introduction

CORROSION ICCP systems have been designed to be SMART. The corrosion protection performance of each wind turbine can be tracked from wherever you are, while data readings and adjustments can be achieved at the click of a mouse.

SCADA for ICCP Systems

3 questions answered

What is it?

Supervisory control and data acquisition (SCADA) is a system of software and hardware elements that makes it possible to monitor and control the functionality of processes at remote locations.

Why do you need it?

SCADA systems represent a highly effective solution for a range of industrial organizations as they maintain remoted control and therefore the efficiency of systems, enable the processing of data for smarter decisions, and communicate system issues to help mitigate downtime as the ICCP systems are located offshore and are difficult to visit.

Why CORROSION?

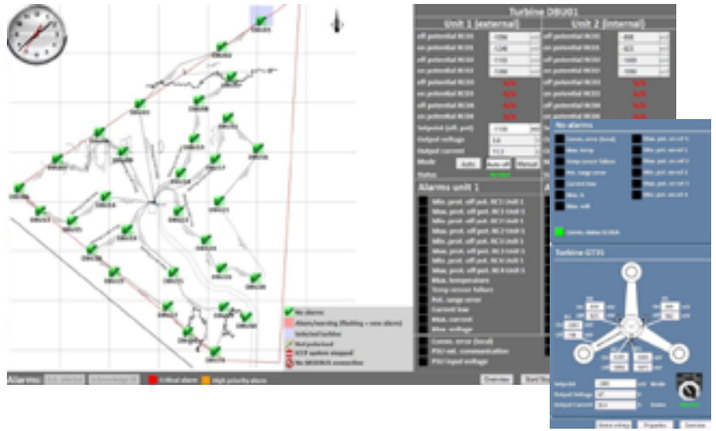
SCADA is an essential part of ICCP systems for Offshore projects, and is specifically designed and set up according to your project's individual design specifications.

1. **Remote management**

A solution to the offshore accessibility problem

SCADA systems are able to monitor and provide remote control of wind farms spread over a large geographical area for which organizations do not have sufficient personnel to cover. Reliable communication and operability of these areas or sites is critical to operational reliability.

SCADA systems enable the remote monitoring and control of ICCP systems from any location, such as substations, onshore control centers, or directly from our offices.

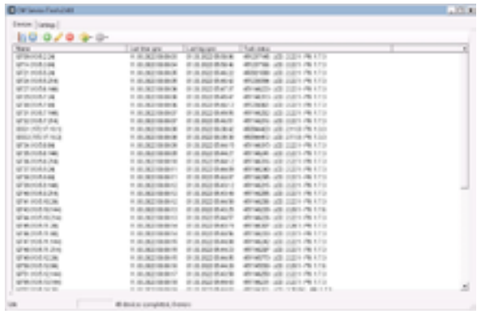


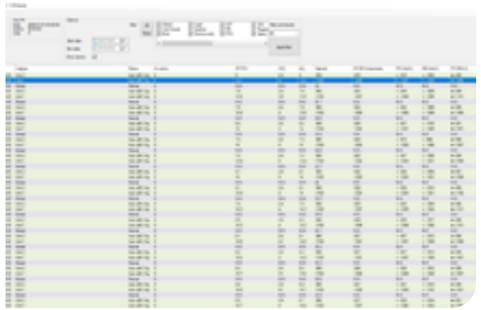
2. **Graphical analysis, log downloads, software updates and backups**

Log files from every ICCP system can be downloaded for a number of reasons, including:

- Backup purposes;
- Detailed analysis during trouble shooting
- To prepare graphical or non-graphical analysis on which to base a statement or conclusion –for example for supervision by the Federal Maritime and Hydrographic Agency (BSH) in Germany.

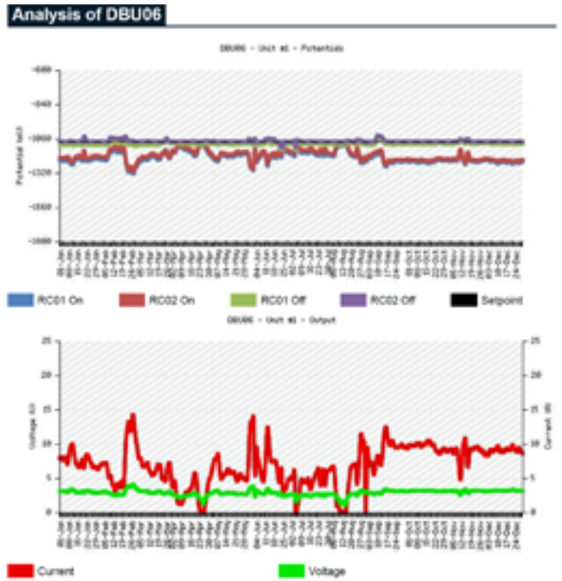
CORROSION's unique service tool makes it possible to upgrade ICCP systems' software remotely.





3. ICCP SCADA training for external companies

- Introduction to CORROSION's ICCP SCADA system and our common values
- Explanation of different features
- Overview of different user levels
- Historical Data Viewer
- Understanding how to interpret and acknowledge system alarms



4. Periodic checkups & status reports for ICCP Systems

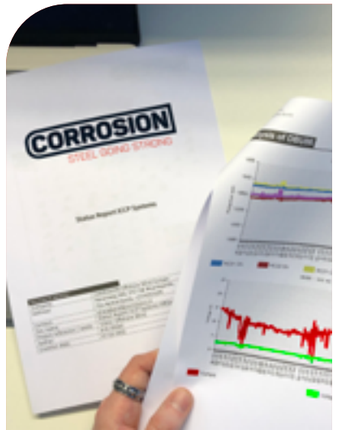
As part of CORROSION's full-maintenance service contract, we offer two different service packages: the care package and the complete package.

The care package features monthly SCADA maintenance with quarterly status reports, whereas the complete package features bi-weekly SCADA maintenance with monthly status reports. The SCADA maintenance includes evaluating the functioning of the system, adjusting ICCP settings if necessary, and downloading log files for admin and backup purposes.

These reports contain information about the functionality of all ICCP systems, alarms and any recommended repairs (if necessary) – something that saves considerable time and money.

Both the SCADA Care Package and SCADA Complete Package include notifications in the event of issues such as hardware failures, critical communications errors or other urgent matters, with remote support provided in the event of critical alarms. The Complete Package also includes awareness training about ICCP systems at CORROSION's headquarters in the Netherlands, together with further offshore troubleshooting.

During the periodic checkups, CORROSION is able to change settings remotely to ensure that the ICCP systems continue to function at the optimum level.



With offices and agents in over 30 countries around the world, it doesn't matter where you are or what you want to know, our specialists are already ready to help.

About CORROSION

CORROSION has been in the business of protecting offshore wind farms, vessels and onshore applications since 1993. From our humble beginnings in the small town of Moerkapelle in the Netherlands, we've grown into an internationally recognized leader in creative, sustainable, state-of-the-art solutions in corrosion and cathodic protection.

Our highly sophisticated ICCP and ICAF systems are utilized by companies large and small around the world, protecting their valuable assets and equipment in even the toughest and most demanding conditions.

We're proud of the quality of the products we offer and the level of service we provide. Excellence is born of experience and expertise, and our unique research laboratory at our global headquarters in Moerkapelle is the beating heart of our company. It's where we test and develop new products and services, enabling us to lead the way in creating innovative anti-fouling and corrosion solutions.

Over the last three decades, we've expanded not just in terms of what we do, becoming a major global player in anti-fouling and maritime protection, but also geographically, with successful subsidiaries everywhere from Germany and France, to China and Vietnam.

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CORROSION.NL

Contact us

We hope that this in-depth guide has been of interest to you. We would be very happy to answer any questions you may have or work with you to see whether SCADA meets your specific needs.

Check out our website **corrosion.nl** for more information. You can also reach us by telephone at: +31 (0) 79 593 1295.

More info?

Scan the QR code or visit CORROSION.nl