FACTS

SINTEF Materials and Chemistry

Coating Performance Research

April 2013

Photo: Åge Hojem

Our role

We run research and development projects on coating performance for the benefit of our customers. Our group is engaged in all types of projects, from contract research, through multi-client projects to multi-national research programs.

Every day, we strive for value creation through research and innovation, and to develop technological solutions that are brought into practical use.

Challenge us on how we can help you!

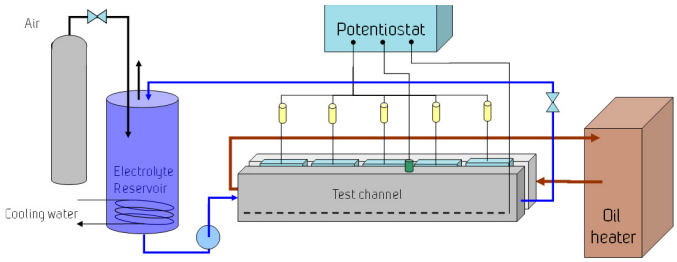

Illustration: NOWITECH

High-temperature cathodic disbonding

Together with the coating industry, we have developed a test method and equipment for pre-qualification testing of temperature resistant coatings in submerged service. The method will be implemented in NORSOK M-501 revision 6. The project was driven by the move of oil and gas production to higher temperatures and deeper waters. The equipment is built for testing cathodic disbonding on steel surfaces with temperatures between 50 and 200°C.

Photo: Hanno Schnars, Fraunhofer

NOWITECH – The Norwegian Research Centre for Offshore Wind Energy

As partner in NOWITECH, we develop and optimize coating systems for offshore wind turbines. Additionally, laboratory test methods for characterization of coatings will be developed.

The main topics of research are:

- Protection against corrosion and wear in a 20 years perspective.
- Reduction of installation and operation and maintenance (O&M) costs.

We believe that coating development for harsh offshore conditions can significantly contribute to the cost reduction of offshore wind energy.

Contact:

Ole Øystein Knudsen, Senior Scientist
Ole.O.Knudsen@sintef.no
Phone: +47 98 23 04 20

SINTEF Materials and Chemistry
box 4760 Sluppen, NO-7465 Trondheim, Norway
Phone: + 47 40 00 37 30
http://www.sintef.no/mc