

Title: DoHTCoM - Downhole High Temperature Control and Monitoring
Company: ABB Offshore Systems, Postboks 5036 Dusavik, 4004 Stavanger
Contact person: Peder Pedersen, tel. +47 51 63 44 00, fax. +47 51 63 44 01, e-mail: peder.pedersen@no.abb.com

Objective

Develop and qualify reliable high temperature electronic modules to form the back bone of a downhole control and monitoring system.

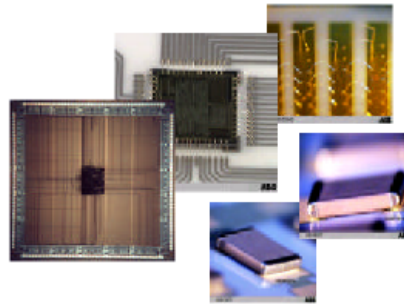
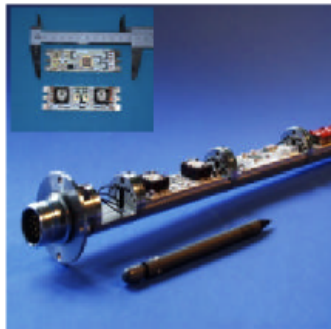


Illustration:

The right picture shows various components under test, while the leftmost picture shows some early prototype modules and an assembly and ready for test.

Description of the project:

DoHTCoM - Downhole High Temperature Control and Monitoring are addressing the current problem with existing failing electronic solutions for downhole monitoring and control, and will provide

- A step change in reliability for downhole control and monitoring systems for elevated temperatures due to custom made modules based on SOI technology and proprietary hybrid production techniques.
- Modular design with full flexibility to enable anything from the simplest gauge to the most advanced "smart well system" as an integral part of the overall control system
- Increased subsea well availability.
- Reduced LCC on subsea fields.
- Increased reservoir recovery.

Partners:

Statoil and Demo 2000 together with ABB Offshore Systems are sponsoring the project.

Schedule:

The project started in July 2002 and is planned to be finished by the summer of 2004.

Market potential:

More and more new fields are developed with subsea solutions with fewer and more complex wells which implies that the wells are in need of some sort of inflow control.

Norwegian Market:

- Both Statoil and Norsk Hydro have installed smart well systems for platform wells on the Norwegian continental shelf and proved the potential for such systems, however the cost of failure of this kind of equipment have also been revealed, so there are a real need for reliable system solutions.
- Major licenses still in the project mode, expected to be the biggest customer in the Norwegian market.
- Small satellite fields are great candidates for such systems.

Export potential:

- World wide
- Great potential on deep water in most locations on the globe

