



## **Fehmarnbelt Positioning System Commissioned to Femern A/S, Copenhagen**

First system user registered on 7 July 2010

by AXIO-NET GmbH and Allsat GmbH network+services

Copenhagen / Hannover, 25 August 2010

AXIO-NET and ALLSAT have today commissioned Fehmarnbelt Positioning System to Femern A/S in Copenhagen/Denmark.

Femern A/S is tasked with designing and planning of a fixed rail and road link between Denmark and Germany across the Fehmarnbelt. Femern A/S is a subsidiary of the Danish state-owned Sund & Bælt Holding A/S, which has experience from the construction of the fixed links across the Great Belt and the Øresund. Fehmarnbelt Fixed Link is a project with high requirements in navigation of heavy duty offshore construction equipment and precise positioning of construction elements.

Fehmarnbelt Positioning System (FBPS) is a reference network implemented to provide correction data for these navigation and positioning tasks, based on Global Navigation Satellite Systems (GNSS, i.e. the American GPS, Russian GLONASS, and in future the European Galileo).

FBPS consists of four networked GNSS reference stations (two on Fehmarn, and two on Lolland), GNSS networking software, data communications devices, redundant computing centres at two locations in Germany, and a dedicated FBPS Internet homepage, available at <http://femern.axio-net.eu/>.

The contract to develop and implement the FBPS was awarded to a consortium of AXIO-NET and ALLSAT by Femern A/S in the summer of 2009. Development and construction of the system was accompanied by Rambøll Arup JV, Copenhagen.

"AXIO-NET and ALLSAT have done an excellent job. Apart from minor adaptations of our original plan, required as a result of the ground conditions at one of the station sites and the harsh conditions in the project area during the last winter, the project was completed to our specifications within time and budget", says Jens Kammer, Project Manager Geotechnology at Femern A/S. "We are very pleased to have a reliable GNSS reference network up and running before the Fehmarnbelt Fixed Link construction project itself begins. Right from start everybody in the design offices and on the construction site will use the same, consistent geodetic reference with precise, real-time correction data."

The first external user of the FBPS was registered on 7 July 2010. AXIO-NET is contracted by Femern A/S to operate FBPS and provide helpline support to its users during the years to come.

ALLSAT and AXIO-NET will present Fehmarnbelt Positioning System on a joint stand at INTERGEO (Cologne, Germany 05 to 07 Oct. 2010, Hall 11.1, stand no. 1H.150), the world's



largest event and communication platform for geodesy, geoinformation and land management.

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Information on Femern A/S is available at [www.femern.com](http://www.femern.com)

