

ABB shore-to-ship power provides Dutch ferries with electricity from local grid

Onshore and onboard solutions will provide docked ferries with shore-side electricity and reduce greenhouse gas and noise emissions

Zurich, Switzerland, Dec.9, 2011 – ABB, the leading power and automation technology group, has won an order from Stena Line B.V., a subsidiary of Stena AB, one of the world's largest ferry companies, to provide the complete electrical infrastructure needed to simultaneously power several vessels while berthed in the port of Hoek van Holland (Rotterdam).

During their stay in port, vessels need electricity to run amenities such as heating, ventilation and cooling. Shore-to-ship power provides ships with electricity from the local network, allowing them to turn off their onboard diesel generators while docked. The resulting reduction in greenhouse gas and noise emissions creates a better environment for local residents.

“ABB has pioneered shore-to-ship power technologies with frequency conversion. These solutions provide clean and reliable power to all types of vessels and offer a compact design to ensure smooth dockside operations,” said Oleg Aleinikov, head of ABB's substations business, a part of the company's Power Systems division.

The turnkey project entails both onshore and onboard installations. Onshore, ABB will provide the transformer and converter substations including all cables and two berth terminals needed to connect various types of vessels to the port's grid. The solution includes frequency converters to convert power from 50 Hz (hertz), the standard grid frequency in Europe, to 60 Hz, the system frequency of most vessels, as well as the automation system to ensure safe and smooth connection.

Following a shore-to-ship power installation in the port of Gothenburg inaugurated in January 2011, the company is undertaking this bigger project in Hoek van Holland that will allow the simultaneous connection of two vessels to the local grid.

ABB is responsible for the design, engineering, project management, installation and commissioning of the solutions and will supply equipment such as medium-voltage switchgear, transformers, frequency converters, automation interfaces, cables, cooling systems as well as control and protection equipment. The project is scheduled for completion in 2012.

On board, ABB will modify the electrical and automation systems to enable shore-side power supply. The modifications will be executed on two ROPAX (roll-on/roll-off passenger) vessels, “Stena Hollandica” and “Stena Britannica”, as well as on two RORO (roll-on/roll-off) vessels, “Stena Transporter” and “Stena Transit”.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 130,000 people.

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