



becker marine systems

Technical Trials of the LNG Hybrid Barge Successful

The programme of technical trials for Becker Marine Systems' Hummel LNG Hybrid Barge were successfully completed, right in time for the beginning of the cruise ship season. The commissioning of the barge for low-emission power supply to cruise ships lying at port in Hamburg can thus start in May 2015.

“The operation of all five of the Hummel’s generator sets recently took place as part of class acceptance,” reported Dirk Lehmann and Henning Kuhlmann, both Managing Directors of Becker Marine Systems. The trials of the gas motors powered using low-emission LNG (Liquefied Natural Gas) fuel at the Port of Hamburg represented a departure for both Bureau Veritas, the French classification society, and the authorities involved.

In collaboration with Bureau Veritas, the overall LNG Hybrid Barge system was tested and a variety of large load impacts and load spikes were simulated. The overall load transfer of 0 to 7.5 megawatts of power was achieved well below the time of two minutes set by the classification society. “In addition, the trial generation of power for a large Hamburg-based company was already successfully tested in December 2014,” said Lehmann and Kuhlmann.

“The overall LNG Hybrid Barge system with gas motors is an impressive technical achievement. The trials were also a milestone for classification,” said Hans J. Gätjens, Vice President Marine at Bureau Veritas, responsible for the Central Europe region. “There is thus nothing standing in the way of the LNG Hybrid Barge’s first planned supply of power to cruise ships over the course of May.” The LNG Hybrid Barge was launched in Komárno, Slovakia at the beginning of September 2014 and was christened the Hummel following successful passage to the Port of Hamburg. It works like a floating power plant and, compared to conventional marine diesel with 0.1% sulphur content, emits no sulphur dioxides or soot. Emissions of nitrogen oxides and carbon dioxide are also significantly reduced. The deployment of the LNG Hybrid Barge will thus significantly improve air quality in port cities.

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**becker** marine systems*(Company profile):*

Hamburg-based Becker Marine Systems is the market leader for high-performance rudders and energy-saving manoeuvring technology solutions for any type of ship. Becker's products are well-established on the world market and represent the top choice for both super tankers as well as container ships, passenger ferries, large cruise ships and luxury yachts. (www.becker-marine-systems.com)

(Available photos and images):*(Pictures – ©Becker Marine Systems):*

Picture 1: LNG Hybrid Barge during full load test trials at 7.5 megawatts

Picture 2: Becker Marine Systems logo

Further information and images available at:

[www.becker-marine-systems.com/Press Room/Media files for the press](http://www.becker-marine-systems.com/PressRoom/MediafilesforthePress)

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