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Operation, Handling and Energy come together for new integrated vessel concepts

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Kongsberg Maritime: New Mode-Based, Energy-Focused Integrated Solutions Deliver Optimal Efficiency for Operators

ONS 2016, Stavanger, 29 August – 1 September 2016, Hall 6 – Stand 6470– Kongsberg Maritime's energy, handling and operational technology solutions are to be further combined in complete vessel concepts under a new 'Integration' strategy introduced at ONS 2016. KONGSBERG is creating a new integrated platform to enable solutions that network seamlessly to provide tangible benefits with efficient operations on vessels and ashore.

KONGSBERG's unique integrated vessel concepts meet the current and future demands of customers in the seaborne, offshore and marine marketplaces. Each individual concept is tailored for specific vessel types and the unique integration provides a technology edge, by combining separate systems to enhance day-to-day performance and long-term asset management.

The new concepts are a natural evolution of KONGSBERG's Full Picture approach and promise to deliver much-needed integrated performance through even greater operational efficiency. The concepts utilise distributed technology platform architecture, unified into a unique technology edge working as one across the energy, handling and operational solutions. This provides a mode-based operational environment that collects information, delivers analysis and empowers proof-enabled decision-making.

KONGSBERG's unique integrated approach delivers cost savings and enhances vessel and fleet efficiency, safety, life-cycle management, reliability and availability with complete benefits on each, while strengthening decision making capabilities and enabling the continual optimisation of energy use. The unified solutions also enhance on-shore expertise that can steer on-board activity, feeding into planning, monitoring and controlling complex operations, and making real-time decisions in close collaboration with crew, while also providing a layer for analysis. This improves performance, efficiency and productivity.

Redefining energy management to energy control using new technical energy solutions that work in harmony with dynamic operation environments to monitor, manage and optimise energy use is a key aspect of KONGSBERG's new integration concepts. This results in optimal energy utilisation, less environmental impact and maintenance free solutions, for all vessels and all power sources, from conventional fuels to battery, hybrid and LNG.

Other core technology aspects include advanced handling solutions with integrated control and energy management. KONGSBERG's truly automated heave compensating, high precision and energy efficient handling solutions enable better productivity, reduce costs and improve safety and security for the most demanding handling tasks. Integrated with i.e. energy systems, automation and dynamic positioning, maritime handling operations become safer and more cost effective.

Handling solutions are designed with the unique principles of utilising energy

from rotating equipment to optimise and regenerate power that reduces energy utilisation. The integration of automation with the dynamics of the vessel operations enhances productivity and reduces human error.

Integration is a network and service layer that supports greater distributed control and monitoring functions across diverse equipment on board a vessel. Such an integrated network provides enhanced fleet management, enabled by increased connectivity, data capture and analysis in addition to continual control and measurement, with information now available on a single integrated platform supporting efficient planning, execution and decision making. Essentially, integration delivers a unified platform helping better resource utilisation, sharing and task management for today and tomorrow.

“On the path to autonomy and remotely controlled operations, our new approach to integration is an important step forward. Greater integration mitigates risk and introduces superior cross-vessel understanding and situational awareness. Connecting systems increases potential for automation and autonomy, with more automated procedures and less personnel, enhancing safety and security,” said Stene Førsund, EVP Global Sales & Marketing, Kongsberg Maritime.

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime developed systems for vessels cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning. Subsea solutions include single and multibeam echo sounders, sonars, AUV/Underwater Robotics, underwater navigation, communication and camera systems.

Marine and offshore training simulators, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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