



DOF vessels Skandi Vega and Skandi Iceman involved in a complex offshore operation (Photo courtesy of Equinor, by Espen Roennevik, Roar Lindefjeld)

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DOF, KONGSBERG, SINTEF Ocean and NORCE join forces to deliver ‘Intelligent Efficiency’ for offshore operations

- *New Decision Support System under development to improve operational, economic and environmental sustainability*

Kongsberg, Norway, 20th May 2019 – Kongsberg Maritime has formed a partnership with DOF, SINTEF Ocean and NORCE, which aims to reduce fuel consumption and greenhouse gas emissions for complex offshore operations,

while streamlining fleet-wide maintenance.

Enabled through sponsorship and support from Innovation Norway, the new partnership between four of Norway's most established and advanced maritime organisations will develop a sophisticated new Decision Support System (DSS) for offshore vessel operations.

This new predictive, intelligent, and dynamic guidance tool will act as the foundation for DOF to simplify operational complexity with objective measurement, ultimately enabling optimal utilisation and more sustainable fleet management.

Highlighting the potential of the partnership to catalyse a tangible transformation, the multi-year project is backed with Innovation Norway's largest funded offshore vessel, environmental technology project in 2018. It will be a gamechanger in how marine operational decisions are supported by providing more accurate, timely, and easily consumable information to decision makers; from the vessel's Chief Engineer to the Chief Operation Officer based shore-side.

"The partnership is focused on building a platform for intelligent efficiency, made possible only through the integration of operational, information and communication technologies," said, Eirik Mathiesen, Director of Energy Products Integration, Kongsberg Maritime. "Encompassing IoT, new smart sensors on board will stream accurate data to the cloud-based DSS, where deep analysis with intuitive presentation and application will drive equitable and predictable operational performance."

"Going 'smart' is integral to maintaining our position as the number one OSV ship manager today and into the future, in a sustainable way," said Lars Christian Larsen, Senior Project Manager for Energy Management, DOF. "Smart is not just deploying the right technologies. Developing our culture to focus even more on sustainable operations with minimal environmental impact will be as important as the technology we create with KONGSBERG, SINTEF Ocean and NORCE. DOF's maritime experience together with the collection of big data in an operationally logical way will ensure success."

"Information is power, and when that information relates directly to power consumption, it can revolutionise vessel operations, from onboard electrical load management to route optimisation for passage by sea," said Anders Valland,

Research Manager, Maritime Energy Systems, SINTEF Ocean. *“This is an exciting project that strengthens Norway’s position as the world’s leading offshore and maritime innovator with focus on efficient and sustainable operations.”*

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable ‘Full Picture’ technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy

management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

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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