

PRESS RELEASE

**KROHNE Marine's EcoMATE™ MRV SYSTEM
INDEPENDENTLY CERTIFIED BY VERIFAVIA**

***Energy efficiency reporting system meets MRV data
collection requirements***

LONDON & BREVIK – 21 December 2016: Verifavia, the world's leading emissions verification company for the transport sector, has fully certified maritime monitoring specialist, KROHNE Marine's EcoMATE™ MRV against the European Union's (EU) Monitoring Reporting and Verification (MRV) regulation requirements.

Shipping companies operating in the EU have just eight months until the August 2017 deadline to prepare plans to monitor and report their carbon emissions. Adopted last year, EU MRV creates an EU-wide legal framework for the monitoring, reporting and verification of CO₂ emissions from maritime transport. Specifically designed to assist shipping companies in complying with the regulation by monitoring bunkering and fuel consumption, EcoMATE™ MRV has been independently verified in terms of process and functionality.

EcoMATE™ MRV enables shipowners to monitor all vessel types within the fleet with a single integrated tool. It accommodates both manual and online data entry to monitor operational data per voyage, conduct data quality checks and validations, and generate annual reports on a per vessel basis.

Julien Dufour, CEO, Verifavia Shipping, commented:

“Focused on process and functionality, our team of verification experts conducted a thorough review of the EcoMATE™ MRV system against the requirements of the EU MRV Regulation 2015/757. We used the ISO standards 25051 on software engineering and 17065 on product certification. Our collaboration with KROHNE Marine was very efficient and professional and we have every confidence that the EcoMATE™ MRV system will accurately and transparently support shipping companies in complying with the MRV regulation.”

MRV regulation will see the EU collect and make publicly available data for over 12,000 vessels calling at EU ports on or after 1st January 2018 to load or unload cargo, or embark or disembark passengers for commercial purposes. To support monitoring and reporting that

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satisfies compliance requirements, it is recommended that owners and operators choose IT solutions that are fully certified.

Hasse Hogner, Managing Director, KROHNE Marine, commented:

“Our EcoMATE™ MRV system was specifically designed to improve energy efficiency reporting. Based on our robust and accurate Coriolis mass-flowmeters and an extension of our established EcoMATE™ system, the software will take care of data acquisition, logging, calculations, monitoring and reporting. By simplifying data input and automating the calculation of emission and efficiency data, as well as reporting, EcoMATE™ MRV provides a simple and reliable solution to support compliance.”

Although designed as an automated system using flow as input, the EcoMATE™ MRV offers the flexibility of starting with only the IT solution using manual input according to methods A or B of the EU MRV Regulation 2015/757. This can later be upgraded with mass-flowmeters for compliance with method C. In addition, existing volumetric flowmeters can be used as input for the automatic system, for minor fuel consumers.

According to the EU MRV regulation, shipping companies with vessels exceeding 5,000 gross tonnage (GT) and calling at an EU port on or after January 1st 2018 for commercial purposes must report fuel consumption and carbon emissions on all voyages, as well as specific time and consumption while at berth. Additional required information includes distance travelled, time spent at sea, details of the cargo carried, transport work and average energy efficiency expressed in fuel consumption or carbon emissions per distance or per transport work. Vessels will also be required to carry a document of compliance issued by an accredited MRV verifier.

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About Verifavia Shipping:

Verifavia Shipping provides global ship owners, operators and managers with independent emissions verification information and services that enable them to navigate the requirements of compliance efficiently and effectively. Focusing entirely on its area of expertise – independent carbon emissions verification for the transport sector - with no other vested interests in the maritime sector, the company is entirely independent.

Verifavia Shipping strives to be the maritime industry's first choice for the provision of emissions verification information and services. The company works as a trusted partner for its customers, supporting them in achieving compliance with an independent service grounded in accuracy, integrity and expertise.

For more information about Verifavia Shipping, visit us at <http://www.verifavia-shipping.com>. For up-to-date information and news about the MRV Regulation, follow us at <http://twitter.com/VerifaviaMarine>.

About KROHNE Marine:

Based in Norway, KROHNE Marine handles all marine-related activities within the KROHNE Group. This includes sales and marketing, engineering and system design, research and development, aftersales, service and spare parts. Our highly knowledgeable team is always up to date with the newest technology and sailing installations.

The marine market is a global market without borders. More than 50 years in the marine business mean KROHNE Marine knows what it takes to deliver high-quality products to demanding ship operators and yards anywhere in the world.

An exclusive network of sales representatives and service agents represent KROHNE Marine in all the main global shipping hubs and shipbuilding countries.

For more information about KROHNE Marine, visit us at <http://www.krohne-marine.com>.

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