



PRESS RELEASE

Latest Report Offers Recommendations to Enable Implementation of Onboard Carbon Capture in Shipping

New publication provides regulatory insights and key next steps to facilitate onboard carbon capture.

January.21.2025. HOUSTON The Maritime Technologies Forum (MTF) has today released a new report offering key recommendations to consider as industry looks to adopt onboard carbon capture and storage (OCCS) technology.

The report highlights the regulatory and safety considerations for adoption of onboard carbon capture while also recognizing the importance of developing a secure and scalable downstream carbon value chain and increasing carbon capture system cost effectiveness.

Based on the findings of the publication, MTF has outlined the following key recommendations, including:

1. Collaborate to create a secure downstream value chain comprising of CO₂ offloading facilities, transport infrastructure and long-term storage, together with associated MRV schemes, with the goal of permanently storing captured CO₂.
2. Establish clear and consistent regulations on safety and environmental performance, which include:
 - a. Develop safety guidelines specifically for OCCS, covering aspects like equipment design, risk assessment, and emergency response procedures.
 - b. Consistently incorporate OCCS into existing regulations, such as the EEDI, EEXI and CII as well as the EU ETS and FuelEU Maritime measures.
 - c. Develop certification schemes for downstream CO₂ value chain infrastructure.
3. Define acceptable levels of CO₂ impurities and develop standardized guidelines for safe CO₂ handling, including offloading procedures and port infrastructure requirements.
4. Amend the Safety Management Systems and develop specialized training programs for crew members covering the operation, maintenance and emergency procedures for OCCS systems.
5. Focus on development of OCCS technologies to increase CO₂ capture rates, reduce energy demand and, thus, increase cost-effectiveness and demonstrate OCCS systems in pilot projects to gather operational experience.

Commenting on the recommendations, Lars Lippuner, UK Maritime and Coastguard Agency (MCA) Director of UK Customer Maritime Services, said:

“This report identifies the various variables and challenges that are impacting broad adoption of onboard carbon capture, including the need for a downstream carbon value chain. These recommendations will help establish a robust framework for standards and requirements.”

Further commenting on the report, Christopher J. Wiernicki, ABS Chairman and CEO, said:

“Carbon capture is shaping up to be a key transformational technology and enabler for shipping to achieve its net-zero emissions goals. The recommendations outlined in this latest report offer important steps for industry and regulators to consider, helping support the safe and efficient adoption of onboard carbon capture.”

View the full report by downloading [here](#). Join us for our upcoming webinar on this topic by registering [here](#).

About MTF

MTF is a forum of Flag States and Classification Societies, established to provide technical and regulatory expertise to benefit the maritime industry. The role of the Forum is to work together on research that it publishes to the maritime industry and draw on regulatory expertise to be able to offer unbiased advice to the shipping sector. It seeks to give guidance on the use of alternative fuels and increased levels of automation in the industry. Furthermore, it allows for the safe testing and adoption of new technologies and it helps shape world-leading regulation.

The Flag State administrations include Maritime Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan; the Norwegian Maritime Authority; the Maritime and Coastguard Agency, United Kingdom; and the Maritime and Port Authority of Singapore (MPA). The Classification Society members are ABS, DNV, LR and ClassNK.

Issued on behalf of the Maritime Technologies Forum. For more information, please contact

Jesse Lashbrook
Strategic Marketing Director
ABS
T +1 281 877 6774
M +1 832 906 0459
E jlashbrook@eagle.org