

Carbon capture for shipping - a key transition technology to achieve CO2 reduction targets

ABSTRACT

Decarbonization of shipping will cost \$1.4 trillion in new technologies, fuels and infrastructure the equivalent of \$235 per ton of carbon dioxide (IMO Jan 2020 Study by UMAS). Renewables and carbon free fuels alone cannot solve the shipping industry's low carbon transition due to marine power and fuel density requirements. Carbon Capture is a critical and practical solution for shipping to meet carbon emission targets of 50% CO2 reduction by 2050. To meet these targets, the industry cannot rely solely on new ships, but must refit existing ships. Ionada's modular carbon capture systems provide shipowners a practical solution to comply with carbon emissions. The presentation introduces Ionada's HFMCRC technology for marine carbon capture and reviews two case studies for early adoption of marine carbon capture.