

# ARGO NAVIS ENERGY BULLETIN

Weekly roundup on the future of energy  
and shipping from Argo Navis Engineers



## SHIPPING DECARBONIZATION

Japanese shipping company NYK has unveiled plans to conduct fullscale trials of long-term use of biofuels for its existing heavy oil-fired vessels starting from 2024. (Source: *MarineLink*)

More than half of new vessels currently being built for Danish shipping companies will be able to sail on green fuels, trade and employer association Danish Shipping said. (Source: *Offshore Energy*)

Driven by a sea of change in regulations, new technologies and public sentiment, 2023 has pushed the industry firmly on the path of action towards decarbonization. (Source: *Maritime Executive*)

Japanese shipping company Kawasaki Kisen Kaisha (K Line) has decided to employ JGreeX, the green steel product manufactured by JFE Steel Corporation, for one of its newbuild bulkers. (Source: *Offshore Energy*)

Stolt Tankers is the first shipping company in the world to apply a cutting-edge sustainable coating to the hull of one of its chemical tankers, Stolt Lotus. (Source: NBIC+)

Marine biodiesel bunkering demand in Europe could rise in 2024, as a result of the International Maritime Organisation's (IMO) first assignment of energy efficiency "grades" for vessels and the extension of the EU's Emissions Trading System to the shipping sector. (Source: Argus)

This article delves into Elbaum's innovative approach to technology in global shipping, exploring the transformative impact on operations, sustainability, and the future of maritime logistics. (Source: Neal Elbaum)

China has unveiled plans for the "world's first" nuclear-powered container ship, signaling a significant leap in maritime technology. (Source: Interesting Engineer)

Fortescue engineers explain how the company is dealing with the dangers of using the hydrogen-based toxic fuel. (Source: Hydrogen Insight)

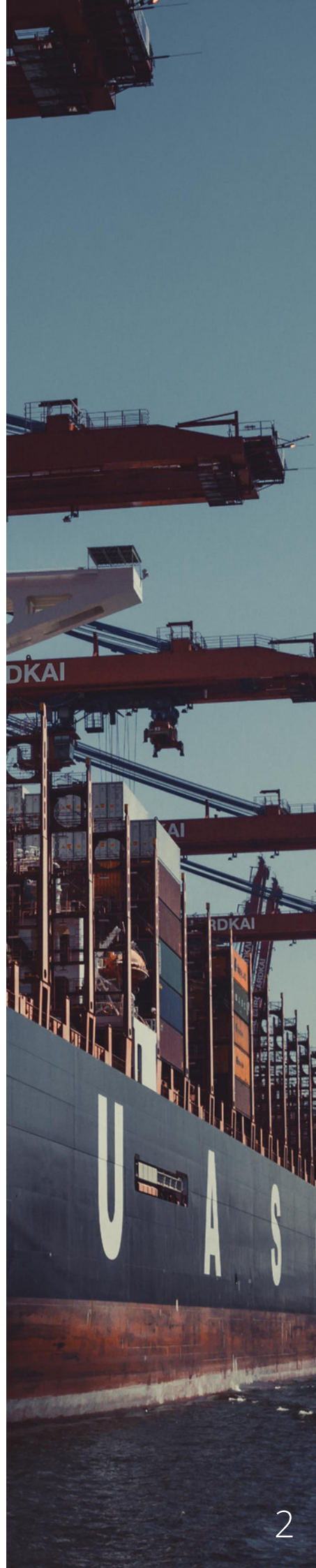
A.P. Moller-Maersk (Maersk) [announced] that the company has signed a Memorandum of Understanding (MoU) with the City of Yokohama and Mitsubishi Gas Chemical (MGC). This collaborative agreement will focus on the development of green methanol bunkering infrastructure in Yokohama as Maersk's 16,000 TEU green methanol-powered container vessels will be delivered since 2024. (Source: Maersk)

ClassNK has issued an Approval in Principle (AiP) for an Ammonia FSRU (Ammonia Floating Storage and Regasification Unit) jointly developed by Mitsui O.S.K. Lines, Ltd. (MOL) and Mitsubishi Shipbuilding Co., Ltd. (Source: Maritime Executive)

## LEGISLATION AND INITIATIVES

The report titled 'Cost of zero emission container freight shipping: A study on selected deep-sea and short-sea routes' shows that there is initially a significant cost gap between conventional fossil fuels and scalable zero-emission fuels (SZEF) and there are differences across the scalable zero-emission fuels considered. (Source: Offshore Energy)

The shipping industry is turning its attention to green and blue alternatives in order to meet the International Maritime Organization's (IMO) targets for the use of zero or near-zero fuels by 2030, according to BIMCO. (Source: gCaptain)



# ENERGY AND THE ENVIRONMENT

At the recent COP28 climate summit, the question was raised about whether countries should be able to use “unabated” fossil fuels so long as they capture emissions from operations. However, prior experience suggests that CCS activities are not extensive or reliable enough to allow this strategy to move forward. (Source: Yahoo)

Air Liquide SA plans to build, own and operate a world-scale carbon capture unit in the industrial basin of Rotterdam in the Netherlands, as it aims to help reduce emissions for customers as well as at its own operations. (Source: Rigzone)



*We here at Argo Navis Engineers  
send all of you our best wishes  
for a healthy & prosperous New Year!*



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