Navigating Sustainable Shipping: Hong Kong's Best Practices Business

Practices Paid Post: Hong Kong Maritime and Port Board

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Regionally, the European Union (EU) has introduced instruments to encourage the adoption of low or zero-emission fuels. These include the EU Emissions Trading System (EU ETS). And further measures dubbed FuelEU, come into effect in 2025. The race to build ships capable of operating on alternative green fuels has already begun. According to classification society DNV, as of February

2024 29 ships are capable of running on methanol with 228 vessels on order. DNV noted there are 13 ammonia dual-fuel vessels on order. More commonly, at this stage Hong Kong shipowners frequently use biofuel blends as a way of complying with IMO's strategy on the reduction of

The supply of green fuels is presently limited, but there is a myriad of technical and operational measures a shipowner may have recourse to, to

GHG emissions.

reduce GHG emissions. Among the technical measures, shipowners may modify propulsion devices, install air lubrication systems and or wind assistance technologies; apply advanced hull coating, and optimise the ballast water system design. Popular operational solutions include cargo space utilization, speed reduction, route optimization, and cold ironing. These options produce a positive outcome against GHG emissions depending on the class of vessel and other prevailing conditions of the

to gain insight into the practical actions shipowners are taking to meet IMO and other industry targets on GHG emissions. "We have seen an uptake in the adoption of energy-saving devices (ESD's) and innovative ship designs," says Swapnodeep Mondal, Group

"Some of the most popular ESDs in our managed fleet are: Propellor Boss Cap Fins, Mewis Ducts, VFDs (Variable Frequency Drives) and Micro

Managing Director Operations and Shared Services.

Boilers," he explains.

the above mentioned are amongst the most effective devices and designs are VFDs, Mewis Ducts and redesigned propellors." Budget constraints are a significant factor for ship owners when

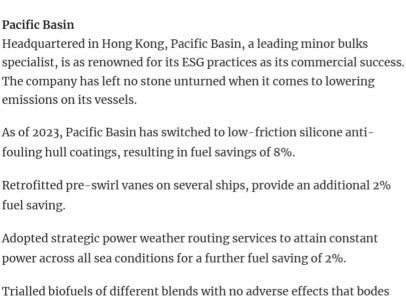
considering investments in new technologies, according to Mr Mondal.

newer, albeit more efficient, technologies. This can result in a slower transition to greener technologies, potentially leading to higher operational costs and difficulties in meeting stricter environmental regulations in the future. However, as regulatory pressures increase and technologies mature and become more cost-effective, investment in

energy-saving technologies is expected to increase," he concludes.

"High initial costs and uncertain returns can deter owners from adopting

Mr Swapnodeep Mondal, Group Managing Director Operations and



Fossil-fuel based carbon abatement technologies enable fossil fuels to be used with substantially reduced CO2 emissions. One possible way is via Carbon Capture and Storage (CCS). This option is being explored by Hong

"Wah Kwong studied the feasibility of carbon capture storage (CCS) onboard jointly with a classification society. The resulting "Approval in

Principle", has contributed to an acceptance that implementing CCS assessed the viability of using CCS technology to upgrade those vessels' capital expenses for installing the system, operating expenses on board, energy required for the full extraction process, space required for storing

Committee has been tasked with keeping abreast of the latest technology in shipping, particularly in the areas of decarbonisation and smart operations, with the ultimate aim of decarbonising the Wah Kwong fleet. In their efforts to gain the upper hand in the struggle toward net zero emissions, these companies are highly representative of the industry as a

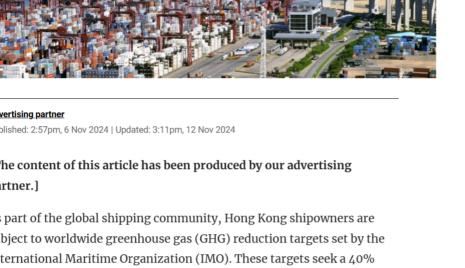
whole in Hong Kong. Fortunately Hong Kong has a world-class financial

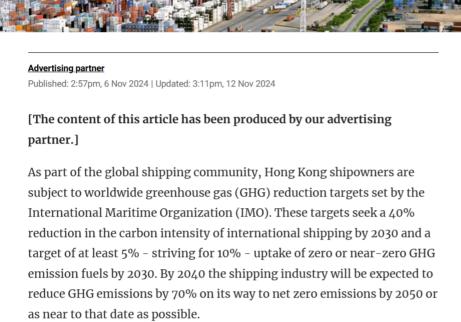
"Another challenge is IMO adoption. At present, Onboard Carbon Capture

is not included as a complying solution with the Carbon Intensity Indicator (CII)/Energy Efficiency Design Index (EEDI) and Energy

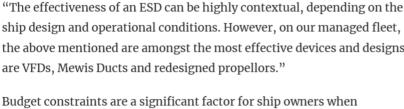
Apart from the carbon capture project, Wah Kwong's Technical

Efficiency eXisting ship Index (EEXI)," Mr Hare says.

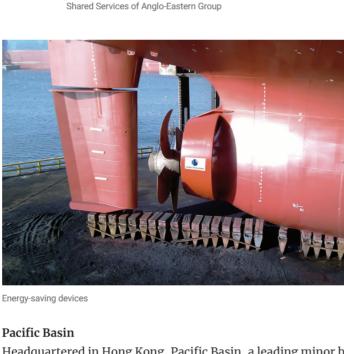




ship. In some conditions, adopting more than one of the options may create a compound effect. **Anglo-Eastern Group** As the largest ship manager in the world with over 650 ships under full management Hong Kong's Anglo-Eastern Group is an ideal organization







well for when the gradual uptake of green fuels becomes mandatory. Pacific Basin's most ambitious project looks to achieve the ultimate goal

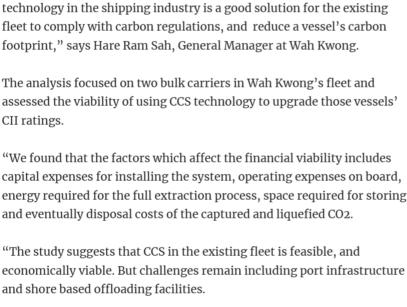
Wah Kwong

Kong's Wah Kwong Transport Holdings.

partners, we have made good progress on a design for vessels that can run on both fuel oil and methanol. We will consider in 2024 whether we are ready to contract to build such a vessel with delivery well ahead of our original 2030 target."

"To achieve our goal of complete decarbonisation, we will need to invest in dual-fuel low-emission vessels. Collaborating with our Japanese

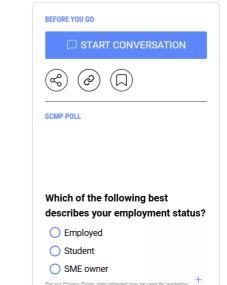
of complete decarbonisation. CEO Martin Fruergaard explains:



centre to help finance this eminently costly exercise. It has the full support of the technical and shipbuilding prowess of Mainland China, which in the years to come will be a ready source of green fuels. Combined, these factors can make Hong Kong a world leader.



Mr Hare Ram Sah, General Manager at Wah Kwong





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