



Sagar Sandesh

Guiding Spirit to Shipping Industry

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Working with agility and speed to keep abreast with evolving maritime technology and regulatory upheavals, must be front and center for a Shipping company, to validate a scalable business model. Under the theme 'Future Proof Ships', at an IMarEST UAE branch meeting, Zener Maritime Solutions showcased best in class creation of strategic roadmaps to address Energy Efficiency Existing Ship Index (EEXI), the operational Carbon Intensity Indicator (CII), and Remote surveys which have provided flexibility for shipowners, with round-the-clock global coverage & improved efficiency through reduced travel times and increased expertise availability.



NIKHEEL IDNANI

ZENER Effect - preparing for a future of sustainability.

In his welcome narrative, NIKHEEL IDNANI emphasized that knowledge sharing is the bedrock of a progressive society and the IMarEST UAE branch, of which he is the Honorary Secretary, is the 'town square' where matters vital to the future of shipping are discussed, enjoying the highest level of support from the Middle East maritime community. Nikeel's forthright, always informative – and sometimes controversial opinions, piqued the interest and perspectives of the audience, some of whom are engaged in shaping shipping's evolution to becoming a low – and ultimately zero – GHG emissions industry. The IMarEST UAE branch has its finger on the pulse of the marine sector and their seminars offer unrivalled insights from a wide range of industry experts on contemporary marine engineering developments.

SANJEEV PANICKER, Business Development Director at Zener Maritime Solutions in his presentation described IMO's decarbonization goals - to achieve 40% reduction of average carbon intensity by 2030 and 70% by 2050 and total GHG emissions to be reduced by 50% by 2050. Maintaining the status quo, will result in an unacceptable 20% increase of GHG by 2050. The hard truth is that current advancements/initiatives are not enough to meet the goal of Zero-carbon shipping. Sanjeev put regulatory compliance firmly under the spotlight and described the EEXI process leading to International Energy

IMarEST UAE Branch

Efficiency certification (IEEC) and annual CII ratings from A to E which reflect actual emissions in ship operation. He went onto describing the factors that affect a ship's fuel efficiency and present options to consider viz. switching to non-Carbon intensive alternative

fuels, Carbon capture solutions, or retrofitting with innovative Energy Efficient Technologies (EET). With the milestones of EEXI & CII fast approaching, asset owners

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are trying to determine sustainable solutions for their existing fleets to be compliant with regulations. Sanjeev underscored the reality of multiple, and sometimes confusing options perplexing ship owners. Zener Maritime Solutions structured approach assists in selecting tailored solutions on the path to environmental sustainability.

Zener Maritime Solutions, Director of Technology - **CHARAN SINGH**, in his presentation Remote Connectivity & Inspection Systems spoke about the combination of traditional with new technologies of unmanned aerial vehicles (Drones) which pave the way for a more robust, safer, and cost-effective environment. Remote surveys are a maturing reality and

a practice that will go mainstream in cases where physical attendance does not add greater value than a remote survey whilst survey objectives continue to be met. Charan highlighted Zener's Network Connectivity capabilities underpinning cost-effective solutions in data connectivity by boosting the shore LTE network for seamless live streaming and data sharing covering the entire ship including intrinsically safe options. Externally powered Tether Drone technology enables unlimited flight time resulting in uninterrupted data flow and is safer with no risk of battery spark. The Gimbal stabilized camera yields improved video stream quality (4K resolution) and a wide field of vision. A flexible inspection regime is

possible in terms of saving time by performing drone inspection while the asset is in operation with minimal disruption. Drones reduce risks and costs associated with scaffolding/rope access for visual inspection purposes. Charan graphically exemplified a 3D virtual walkthrough in a digital twin of a ship, which is a low-cost high utility service containing a virtual database of information e.g. in which you can zoom into manufacturers' labels, smart tagging at key locations, identify potential hazards and provide a knowledge-sharing platform suitable for crew training and familiarization. Reality Capture can perform quick measurements for preliminary assessment of simple ship modifications to facilitate remote discussions. It obviates

the need to go through thousands of photos by referring to this high-resolution photography capture.

Director, ITM) took to the stage, as a round-up of the key themes which were discussed in a highly interactive and insightful



The panel discussion

To provide an opportunity for wider stakeholder engagement, Sanjeev Panicker, Charan Singh, Jagdeep JD Singh (Managing Director, Zener Maritime Solutions) & Chris Kirton (Managing

session with the 158 delegates. The immersive discussions resulted in the understanding that for those ship owners

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MARINE NEWS



"Failure is a lesson learned; success is a lesson applied."

ZENER Effect - preparing for a future of..... From Page : 2

who are trading water in 2023 and beyond, while unprecedented challenges may continue to emerge, so will solutions. It is diligent to leverage on the exponential evolution of technology, to ensure compliant uninterrupted operations.

JD highlighted Zener Maritime Solutions commitment to the shipping industry which is imbibed in their guiding principles of developing win-win relationships with stakeholders based on standards that are above and beyond what is legally right, accepting nothing less

than being the best in the maritime industry. His 400 employees strong company, which is a global leader in asset integrity solutions for the maritime and offshore industry, echoes the sentiment of a high-end luxury fashion house - Quality is remembered long after the price is forgotten, a philosophy that they believe is a reality and not just an ideal, for a future of sustainability. This thought process seemed appropriate within the luxurious Waldorf Astoria on Palm Jumeirah (part of the Hilton Group's commitment to

drive down environmental footprint 50% by 2030), one of Dubai's most glamorous venues, where the evening appeared to have taken the form of a conscientious voyage towards the IMO 2030 Agenda for Sustainable Development.

About the Institute of Marine Engineering, Science & Technology (IMarEST)

The IMarEST which is headquartered in London is an international professional body and learned society for marine engineers, scientists, and



Audience participation

technologists. With its global appeal, consultative status at IMO, collaborative undertakings with governments worldwide, and international standing, IMarEST is, inter alia, the preferred partner

for sharing knowledge and dissemination of information to a broad spectrum of marine professionals at local and international levels. More details can be accessed via www.imarest.org

Kerala identifies 10 coastal hotspots for rehabilitation

NEW DELHI
Sagar Sandesh News Service

Kerala government has identified ten hot spots in its coastline where coastal erosion and flooding are frequent during the monsoon period, the state chief minister Pinarayi Vijayan said.

Projects worth rs 5,300 crores have been taken up in these hotspots of the state for the safety of coastal areas in the state he said

Kerala will do everything possible to protect the lives and livelihoods of coastal



Projects worth rs 5,300 crores have been taken up in these hotspots of the state for the safety of coastal areas in the state said CM Pinarayi Vijayan

fishermen who are affected by sea erosion. The chief

minister Vijayan was speaking at the inauguration of the work on Rs 344-crore coastal project at Chellanam, which includes construction of groynes and a seawall using tetrapods.

The chief minister said that it is the first time in the state that a coastal protection system has been constructed using tetrapods.

The government plans to take immediate action after identifying 10 hotspots in the state where coastal erosion and flooding are frequent. Coastal protection activities are being carried

out with the help of modern technology. Since Chellanam near Cochin Port is an area that is prone to sea erosion during all monsoons, the first phase of the project began from here," the chief minister said.

He said that the project at Chellanam envisages renovation of 10-km-long seawall using a tetrapod and the construction of groyne networks.

CM said the project would be completed in 16 months.

establishing sea passage for grain supplies.

"Completely removing sea mines in the port areas would take several months."

Russia's defense ministry said on May 26 Mariupol harbor had been cleared of mines and urged foreign governments to "exert effective influence on the owners of the vessels in Mariupol port to remove them to their permanent mooring place".



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Sea Mines Float Between Ukraine's Grain Stocks and the World

NEW DELHI
Sagar Sandesh News Service

As the United Nations tries to broker a path for grain from Ukraine and temper worries about a global food crisis, hundreds of mines laid along the Black Sea present a practical nightmare that will take months to resolve even after any agreement.

The Black Sea is crucial for shipment of grain, oil and oil products. Its waters are shared by Bulgaria, Romania, Georgia and Turkey, as well as Ukraine and Russia.

Ukrainian government officials estimate 20 million tonnes of grain are unable to travel from what was the world's fourth largest exporter prior to the Russian invasion on Feb. 24.

"Sea mines have been laid in port approaches and some port exits are blocked by sunken barges and cranes," said a spokesperson with U.N. shipping agency the International Maritime Organization, one of several bodies working on



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