

DPA surpasses own record

Handles 30 MMT cargo in 1st quarter itself

■ BSN Network / Kandla

Deendayal Port Authority (DPA) has successfully surpassed the handling of 30 million metric tonnes (MMT) of cargo in 1st quarter itself. This significant milestone not only marks the fastest handling of 30 MMT of cargo in our history but also represents a substantial increase over the previous year's volume of 3.3 MMT for the corresponding period.

Contd. on page 3



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Koper welcomes Astrid Maersk,

the world's second large green methanol-enabled vessel

■ Agencies

A.P. Moller - Maersk's (Maersk) second large vessel that can run on green methanol* arrived in Koper, Slovenia for the very first time on 16th June and was welcomed in the Port of Koper. Astrid Maersk comes after her sister unit Ane Maersk, launched earlier this year and underscores Maersk's ambition to achieve Net-Zero greenhouse gas emissions by 2040.

Operating on the AE12 string which connects Asia and Europe, Astrid Maersk arrived to the Slovene port from Port Said in Egypt before continuing her journey towards Trieste (Italy), Tangier (Morocco) and Singapore.



Mr. Ivić Vodopija, Country Manager for East Adriatic and Central Europe at Maersk said, "It is a fantastic and memorable moment and a great pleasure to witness the arrival of Astrid Maersk in Koper, in Slovenia and in the Adriatic. The launch of this class of vessels is a key milestone for Maersk in our journey to decarbonise ocean transportation. Astrid Maersk, together with her sister vessels, embodies our ambitions in the areas of sustainability and innovation. But this decarbonisation journey requires collaboration from the entire ecosystem, including customers, partners, regulators and all other stakeholders and Port of Koper is one of our key partners. We are in this together and today we have a visible proof that we can move in the right direction."

Mr. Gregor Belič, Member of the Management Board at Port of Koper shared, "Our commitment to sustainability and greener future is stronger than ever. We are advancing towards self-sufficiency, increasing our energy independence, and digitizing

processes to reduce our carbon footprint. Over the past few years, we have been electrifying our machinery, replacing many with the most environmentally friendly electric ones. Furthermore, our most ambitious project, the

electrification of the quayside, will allow all cargo ships to connect directly to shore electricity by 2029, marking a major step in our climate transition efforts. Our valued partners share this commitment, as these decisions are vital for environmental protection. We therefore welcome our partners' plans to carry out green transition in their fleet."

Port of Koper is a multipurpose port, handling all types of cargo. The total throughput of the port in 2023 was 22.3 million tons, including 1,066 million TEUs and 916.728 units of vehicles, making Koper the largest container terminal in Adriatic and one of the most important car terminals in Europe.

Over the next five years, their mission will be to provide reliable, high-quality port services in line with sustainable development guidelines, with the aim of becoming the first choice among ports on the southern European transport route. The port's development will be based on increasing infrastructure capacity, accelerating the introduction of the smart port concept, ensuring



Capt Anubhav Jain Highlights Key Achievements and Future Growth Plans for IAVL

■ BSN Network / New Delhi

Capt Anubhav Jain, Managing Director of IndianOil Adani Ventures Ltd. formerly known as Indian Oiltanking Ltd. IAVL (formerly IOTL), shared insights from his recent visit to key project sites at Paradeep and Raipur. During this visit, Capt Jain had the opportunity to engage with both young colleagues and senior leadership, noting the great energy and enthusiasm within the team.

Significant milestones were achieved, including the commissioning of a 500 kW solar park at the Raipur terminal and the mechanical completion of crude tanks at the NRL projects. Additionally, Team IAVL, in collaboration with EIL/NRL, celebrated the mechanical completion of all 14 tanks at the COIT BOOT, NRL, Paradip Project. This milestone was reached while maintaining the highest standards of safety, achieving 4 million safe man-hours, and quality in record time. Notably, this accomplishment was achieved 40 days ahead of the contractual date, underscoring the team's seamless collaboration and commitment to the project tagline "One Team, One Goal" and "Goal Zero-No Harm."

Capt Jain expressed his optimism about IAVL's future, emphasizing the company's strategic path to triple its growth over the next four years. He praised the team's construction-driven planning and indomitable spirit, which have been instrumental in their success. This latest milestone will be crucial in completing the remaining objectives of the COIT BOOT Project at NRL Paradip ahead of schedule. Capt Jain encouraged the team to continue their hard work and dedication to achieve these ambitious goals.



adequate staffing, and taking care of sustainability aspects and reducing negative impacts on the environment and society.

Equipped with a state-of-the-art dual-fuel engine that is capable of running on green methanol, Astrid Maersk is the second of the 18 large vessels ordered by Maersk that will be added to Maersk's fleet during 2024 and 2025. The vessels in the new series

have an industry-first innovative design with the bridge and accommodation placed at the very front of the vessel, allowing more cargo to be carried and reducing the consumption per container.

Maersk defines green fuels as fuels with minimum 65% greenhouse gas emissions reductions on a lifecycle basis compared to fossil reference fuel.

President IPPTA congratulates Minister of Ports, Shipping and Waterways



■ BSN Network / Mumbai

On behalf of Indian Private Ports and Terminals Association (IPPTA), Shri Devki Nandan, President, IPPTA has sent a congratulatory letter dated 17 June 2024 addressed to Shri Sarbananda Sonowal, Hon'ble Minister of Ports, Shipping and Waterways, on becoming Minister of Ports, Shipping and Waterways (MoPSW) for the second consecutive term.

In his letter, Shri Devki Nandan mentioned that Shri Sarbananda Sonowal, under his dynamic leadership, has propelled the country to be a key growth engine

for the world economy. Our maritime sector has been a key pillar in our economy and now further ready to contribute to the rising success of our country, progressing towards 'Viksit Bharat' with the Maritime India Vision:2030 and Maritime Amrit Kal Vision: 2047.

Shri Devki Nandan further stated that we strongly believe that his leadership and strategic vision will further boost the growth in the maritime sector and we look forward to his kind guidance and support in achieving capacity building and enhancing efficiency of the India's vibrant port sector, contributing to vision of making our country as a 'Viksit Bharat' and global maritime super-power.

Indian Private Ports and Terminals Association (IPPTA) was set up with a view to promote private sector participation in the development of port sector in the country.

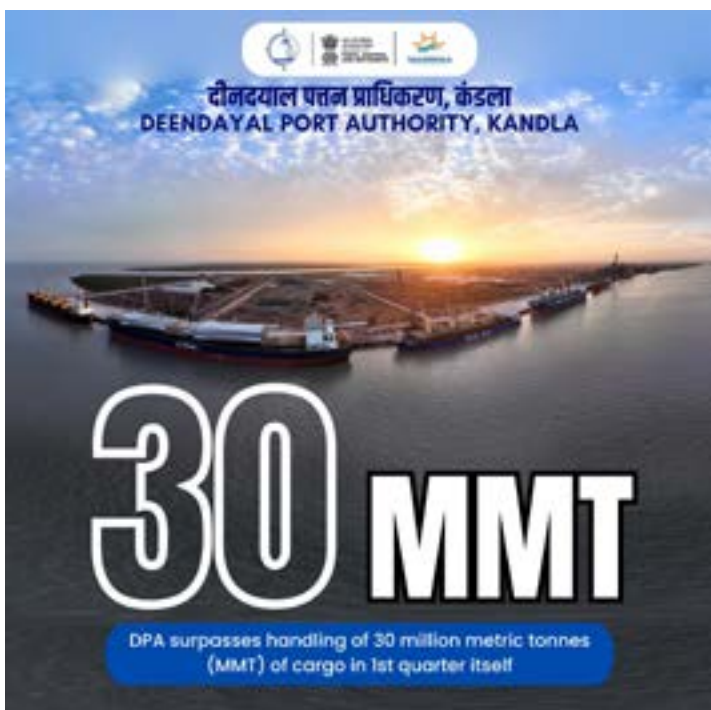
Many prominent national and international port operators are our members. The main objective of the Association is to partner and pro-actively work with the Government on port policy, port development, port connectivity, legislative reforms etc. that will make Indian ports globally competitive and regionally sought after.

DPA surpasses own record

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This remarkable achievement is a testament to the dynamic guidance of Chairperson and Dy. Chairperson & relentless efforts and dedication of our HODs and entire team, more particularly Traffic Manager Shri Ratna Sekhar Rao, who has been instrumental to a great extent in achieving this milestone. Their hard work and commitment have enabled us to reach new heights in our operational performance. We extend our sincere Thanks for continuous support and guidance.

Chairman-DPA congratulated all the Stakeholders, Port Users, Trade Unions, Officials of Port, Employees and workers for their whole hearted support and cooperation for this achievement.



1st Stage of harbor trail (40-50m) deep

of deep sea mission planned by September 2024



■ BSN Network / New Delhi
"India set to be the 6th country to have its own Deep Sea Mission" says Dr. Jitendra Singh, Union Minister of State (Independent Charge) for Science and Technology, Minister of State (Independent Charge) for Earth Sciences, MoS PMO, Department of Atomic Energy and Department of Space and MoS Personnel, Public Grievances and Pensions, Saturday in New Delhi.

Chairing a meeting to discuss the 100 days Action Plan of the Ministry of Earth Sciences, Dr Jitendra Singh expressed pride and happiness on the progress of Deep Sea mission and India being among the very few nations to achieve this feat. He asked institutes to focus on achieving a resilient blue-economy to empower people dependent on the ocean and its energy for livelihood. On drawing contours of the deep sea mission he said "Mission is not limited to mineral exploration but development of ocean sciences and exploration of flora and fauna and conservation of marine biodiversity etc."

Union Minister lauded 'National Institute of Ocean Technology (NIOT)'s efforts for the development of Matsyayaan 6000 which could go 6000m deep into the Ocean. Taking

stock of the progress, he directed officials to complete the 1st stage of harbor trail by September 2024. And finish subsequent trials by 2026.

Dr. Jitendra Singh appreciated them for working in collaboration with Indian Space Research Organisation (ISRO) to successfully bear extreme pressure by developing 'Titanium Hull'. He also enquired on the development of 'Self - Flootation' technology to deal with emergency conditions and be submerged for 72 hours. Some of the highlights were the progress on 4hr descent of the Yaan.

"Deep Sea Mission has the potential to contribute greatly to the overall growth of Indian economy," said Dr. Jitendra Singh highlighting the multi-fold impact this mission will have on Flora and fauna, deep sea exploration, rare earth metals commercial exploitation, exploration and discovery of metals and poly metallic nodules in the Indian Sea bed. He also directed and motivated scientists and officials to develop indigenous technology and capability and reduce India's dependence.

Dr. M Ravi Chandran, Secretary, Ministry of Earth Sciences along with other senior officials was present in the meeting.

INS Sunayna in Port Victoria, Seychelles

■ BSN Network / New Delhi

INS Sunayna, an Offshore Patrol Vessel based at Southern Naval Command, entered Port Victoria, Seychelles on 15 Jun 24 in the company of Seychelles Coast Guard Ship (SCGS) Zoroaster. Zoroaster had recently completed her short refit at Garden Reach Shipbuilders & Engineers Ltd (GRSE), India.

Upon arrival, INS Sunayna was warmly received by officials of Seychelles Coast Guard and Embassy of India. During the ship's visit, personnel from Indian Navy and Seychelles Defence Forces will engage in official & social interactions and cross deck



visits. The ship will undertake joint EEZ surveillance with the Seychelles Coast Guard during the deployment. The visit is aimed at further strengthening the camaraderie and mutual cooperation between Indian Navy and Seychelles Coast Guard in line with the vision of SAGAR (Security & Growth for All in the Region).



9th GES to be a gateway

for Indian FinTech Companies to gain the spotlight

■ BSN Network / Mumbai

India has emerged as one of the most robust FinTech economies in the world with landmark innovations in secure payment systems and gateways, paperless lending, mobile banking and wallets and other innovations which are driving the country's digital transformation. India's FinTech sector, currently the third largest and third highest funded globally, trailing only the USA and China, is poised to emerge as a global leader.

Against this backdrop, World Trade Center Mumbai and All India Association of Industries are set to host the **9th edition of their flagship event, the Global Economic Summit, themed "FinTech: Accelerating the Digital Revolution," from August 8-10, 2024.** The Summit will discuss pathways and strategies to meet the unmet credit needs of MSMEs, women entrepreneurs and under-served communities through digital solutions such as paper-less credit, account aggregator framework, cash-flow based funding, alternative credit scoring methods and so on. World-over, central banks are encouraging their traditional banks to deploy technologies to promote digital supply chain financing for MSMEs and digital payments.

According to the UK Sinha-led Expert Committee of RBI, MSME sector faces credit gap to the extent of Rs. 20-25 lakh crore and fintech can be a key enabler of credit accessibility and affordability for small scale enterprises.

Highlighting the importance of this Summit, **Dr. Vijay Kalantri, Chairman, MVRDC World Trade Center Mumbai** remarked "India has the fastest growing fintech industry in the world and the Summit will add further momentum to this growth by connecting local companies to their global counterparts, fostering opportunities for investment, exchange of technology and business partnerships. This also aligns with the government's initiative to take India's fintech innovations such as UPI to the global market."

The Summit is supported by ONDC, an open e-commerce network backed by Government of India, Digital Lenders Association of India (DLAI) and Atal Incubation Centre – RMP. The event is co-sponsored by IDBI Bank. In order to facilitate cross-border collaboration for Indian fintech startups, WTC Mumbai has garnered the support of Geneva-based global e-trade facilitator World Trade Point Federation and International Digital Economy Association (IDEA) which represents 25 countries across Africa, Middle East and Asia and FinTech Belgium.

The key highlights of the Summit are Conference, Exhibition, Networking Session, and Awards Ceremony. The Summit will be an ideal platform for delegates and around 100 exhibitors to showcase their products and services among more than 5,000 visitors and 300 delegates from 10 countries, including policymakers, regulators, diplomatic corps and fintech industry leaders.

The Conference will be addressed by distinguished experts/bankers like **Mr. P. Vasudevan, Executive Director, RBI; Ms. Amor Maclang, Co-Founder, International Digital Economies Association (IDEA); Dr. Dirk Zetsche, Professor of Financial Law, University of Luxembourg; Mr. T Koshy, CEO, ONDC; Mr. Jatinder Handoo, CEO, Digital Lenders Association of India (DLAI) and other fintech leaders from India and around the World.**

The Summit will also host notable speakers like: **Mr. Makoto Shibata, Head & Chief Community Officer, FINOLAB Inc; Mr. Mihir Gandhi, Partner and Leader, Payments Transformation, PwC India; Mr. Hrushikesh Mehta, Senior Vice President – Financial Services, ONDC; Mr. Ajay Rajan, Country Head- Transaction Banking, Yes Bank; Mr. Amit Purohit, VP and Head - Digital Business, Aditya Birla Sun Life AMC; Mr. Sanjay Agarwal, Co-Founder and Director, Moneyview; Mr. Manish Lunia, Co-Founder, Flexiloans; Ms. Shilpa Mankar Ahluwalia, Senior Partner, Shardul Amarchand Mangaldas; Dr. Pawan Bakhshi, India Lead- Inclusive Financial Systems, Bill & Melinda Gates Foundation; Mr. Sashank Rishyasinga, Co-founder, Axio; Mr. Jaideep Pawar, Founder & CEO, GRAMePAY; Ms. Smita Jha, Partner, Khaitan & Co; Mr. Mandar Agashe, Founder, Managing Director & Vice Chairman, Sarvatra Technologies.**

These speakers will discuss and deliberate on evolving market trends, critical emerging technologies, public digital infrastructure, frictionless lending, guardrails, compliance procedures and investment outlook.

Focus will be on further strengthening maritime security : RM & making Navy's presence more effective & robust

■ BSN Network / New Delhi



Raksha Mantri (RM) Shri Rajnath Singh, on June 14, 2024, visited the Eastern Naval Command at Visakhapatnam, Andhra Pradesh to review the operational readiness of the Indian Navy, and embarked on INS Jalashwa for a 'Day at Sea'. It was Shri Rajnath Singh's first outstation visit after assuming charge as Raksha Mantri for the second consecutive term.

During the 'Day at Sea', the Raksha Mantri witnessed the dynamic operations by various ships, submarine and aircraft of the Command, showcasing the combat capability and preparedness of the Indian Navy. **He was accompanied by Chief of the Naval Staff Admiral Dinesh K Tripathi and Flag Officer Commanding-in-Chief, Eastern Naval Command Vice Admiral Rajesh Pendharkar.**

Interacting with the officers and sailors of the Eastern Fleet, Shri Rajnath Singh commended the Indian Navy for being operationally ready, and emerging as the first responder in the Indian Ocean Region (IOR). "Our Navy ensures that no nation suppresses another in the Indo-Pacific region or endangers its strategic autonomy on the basis of economic strength or military power. This is in line with Prime Minister Shri Narendra Modi's vision of Security And Growth for All in the Region (SAGAR) wherein our friendly countries in the region remain safe and move forward together on the path of mutual progress," he said.

The Raksha Mantri credited the Indian Navy for playing a crucial role in the country's growth and raising its stature on the international stage. He made special mention of the Navy's daring rescue operation in the Arabian Sea in March 2024, when it freed 23 Pakistani nationals from Somali pirates. This operation, he said, was a demonstration of humanity as well as the values imbibed in the Naval personnel, who come to the aid of everyone, irrespective of their nationality.

"It is a matter of great pride that our Navy is ensuring safe trade and promoting peace & prosperity in IOR. Securing free navigation, rule-based world order, anti-piracy and peace & stability in the region are our biggest objectives. The Navy is playing a crucial role in fulfilling them. **India, with its increasing power, is committed to making the region as well as the entire world peaceful and prosperous," said Shri Rajnath Singh.**

Elaborating further, the Raksha Mantri highlighted the Navy's growing strength which is ensuring the security of India's maritime borders. He also underlined the fact that India's commercial interests are linked with the IOR, and the Navy is a means of securing the maritime borders while achieving the wider national objectives. He said national interest is of paramount importance to the Government, assuring that all possible steps will be taken to safeguard them.

On his visit to the Eastern Naval Command, first of his second term as Raksha Mantri, Shri Rajnath Singh stated that the maiden tour always holds special significance as it reflects the Government's vision ahead. "I visited the Siachen Glacier at the beginning of my first term as Raksha Mantri in June 2019. I again visited the world's highest battlefield in April 2024. Our aim was to bolster national security with focus on the northern borders. **Whether it was infrastructure development or connecting the far-flung areas with the rest of the country or ensuring peace & stability at the borders, we achieved all these objectives. It, however, does not mean we did not pay heed to the IOR in our previous tenure. We paid full attention to our Navy and maritime security," he said.**

The Raksha Mantri emphasised that, in his second term, the focus will be on further strengthening maritime security and making the presence of India's naval power in IOR more effective and robust. "The Indian Navy is continuously becoming stronger, factored by growing industrial infrastructure. **Our shipyards are expanding, aircraft carriers increasing, and our Navy is emerging as a new powerful force. We will give momentum to our efforts in the second tenure as well. Be it the Himalayas or the Indian Ocean, our priority will be to continuously strengthen the security at the borders," he said.** Shri Rajnath Singh added that the Government's focus on land borders and maritime security has a broader vision - to bind the northern and southern parts of the nation in one thread.

The 'Day at Sea' culminated with the traditional Barakhana with the crew of the Sunrise Fleet. Earlier, upon his arrival at INS Dega, Visakhapatnam, the Raksha Mantri was accorded a Ceremonial welcome with a 50-men Guard of Honour.

Shri George Kurian visited CIFNET

and reviewed various activities at Kochi

■ BSN Network / New Delhi

Minister of State for Fisheries, Animal Husbandry & Dairying and Minister of State for Minority Affairs, Govt. of India, Shri George Kurian visited CIFNET, Kochi and reviewed various activities of the Institute.

MoS also visited various divisions of CIFNET such as Fishing Gear Hall, RT Station, computer lab, Navigation Simulator Lab, Library, Seamanship Navigation Lab, Biology Lab, and Marine Engineering Lab.

After brief overview of CIFNET activities by M.Habibullah, Director CIFNET, a demonstration of various equipment, such as RT communication with CIFNET Fishing Vessels was conducted during visit of the Minister. The Minister was also briefed about various initiatives of the Government of India for the safety and security of fishermen, including transponders for two-way communication developed indigenously by ISRO.



SRC and GREEN MARINE join forces to bring Methanol Superstorage to market

■ BSN Network / Mumbai

SRC Group and GREEN MARINE have signed a collaborative agreement which brings two of the strongest advocates of methanol as a marine fuel together to develop and deliver Methanol Superstorage to market.

The cooperation aims to realise benefits available to SRC's Methanol Superstorage solution, which has been turning heads among owners, builders, repairers, class societies and insurers since its launch. Using the SPS Technology Sandwich Plate System instead of traditional cofferdams that separate tank walls, Methanol Superstorage boosts shipboard tank volumes by 85% and provides effective mitigation for methanol's significantly lower energy density than conventional HFO.

Independent advisory and project management firm GREEN MARINE has built an unrivalled track record for delivering methanol transition solutions for all ship segments. With a pedigree reaching back to the first use of methanol as a marine fuel, its services cover ship design, yard selection, construction supervision, technical management and operations, training, procurement, sales and bunkering. GREEN MARINE is involved in the majority of methanol-related ship projects in the world today.

"Following the huge initial impact made by Methanol Superstorage, SRC and GREEN MARINE will work together

India's Tier 2 Cities Lead Industrial Revolution With Warehousing

Demand Surges Amid Urban Expansion as per GRI Report

■ BSN Network / New Delhi

India's industrial and warehousing sector is witnessing a transformative surge, propelled by robust demand in Tier 2 cities and evolving market dynamics, according to a comprehensive report by GRI Club. The report highlights India's unique market landscape, where 35 to 40 cities boast populations exceeding 1 million, presenting substantial opportunities comparable to global counterparts in Europe and the US.



In recent years, Tier 2 cities have emerged as significant contributors to the country's industrial footprint, utilizing approximately 12 to 15 million square feet of warehouse space. This shift underscores the decentralization of economic activity beyond traditional Tier 1 hubs.

The report also reveals detailed location-specific trends: while warehousing micro-markets in Tier 1 cities typically span 45 to 50 kilometers, Tier 2 cities are witnessing the emergence of development hubs within a 25 to 30 kilometer radius from city centers. This proximity facilitates efficient logistics and enhances operational agility for businesses.

Tenant preferences, another critical aspect discussed in the report, highlight a growing inclination towards modern, technologically equipped facilities that support advanced supply chain management. This trend is reshaping investment strategies and development priorities across the sector.

Commenting on the findings, industry experts emphasized the pivotal role of local stakeholders and regulatory frameworks in fostering sustainable growth. The report's insights not only illuminate current trends but also provide strategic guidance for stakeholders navigating the burgeoning industrial and warehousing landscape in India.

As the country continues its path of urbanization and economic diversification, the GRI Club report underscores the transformative potential of Tier 2 cities in driving the next phase of industrial development across India.

to provide comprehensive technical coverage for methanol integration," said Hannes Lilp, CEO, SRC Group. "With GREEN MARINE's extensive experience in methanol projects and overall technical knowledge of the entire process, combined with SRC's expertise in methanol storage and over 23 years of experience in ship refits and conversions, we are well-placed to onboard Methanol Superstorage for both retrofit and new build vessels, and establish a mature sales framework to enable global adoption."

GREEN MARINE continues to drive development of the methanol supply chain in the marine market, with recent agreements including preparations for projected supplies of green methanol from Chinese partners.



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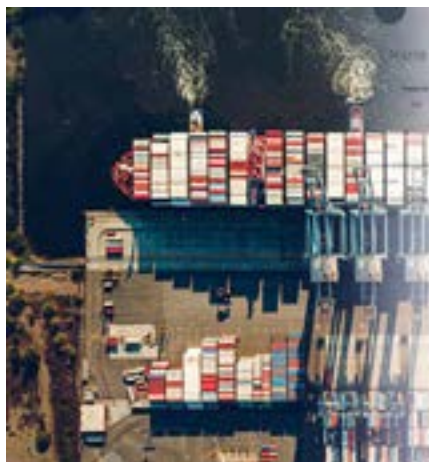
Digital innovation: APM Terminals calls first movers

to join Innovators Program to enhance visibility & reliability for customers

■ Agencies

Digital solutions are the backbone of modern terminal operations and offer unique opportunities to accelerate and optimise the flow of cargo through container terminals. Therefore, it was a breakthrough for customer service, when APM Terminals launched the Shipping Line Dashboard to enhance the connections and cooperation between shipping lines and inline services.

"This service has now been rolled out in 11 of our terminals and we are ready to document that it has helped us create more visibility in planning, reduce the turn times and ensure more predictable and reliable planning, but we have more to come," states Laura Bercan, Digital Portfolio Owner of APM Terminals.



Driven by advanced algorithms, the Shipping Line Dashboard provides individual customers with detailed information right down to moves per hour for individual cranes. It provides complete transparency and reliable estimated completion times from early on during the port stay.

It was rolled out late 2023 and the results point in the right direction: "The shipping line dashboard truly is a breakthrough

product for us to create visibility – we want to deliver live tracking of the customers' vessels and detect possible operational issues at an early stage to be able to make proactive measures," Ms. Laura Bercan continues.

That experience is echoed by Maersk Nigeria. "Shipping Line Dashboard is a testament of APM Terminals' commitment to digital innovation for promoting self-service and creating visibility to her stakeholders," says Mudathir Owolabi Kosoko, Direct Transport CX Manager (Nigeria)/Branch Manager (Onne), Maersk Nigeria.

Taking the next step innovating together as customers are in center of the new digital products being created by APM Terminals. Therefore, APM Terminals used the stage at TOC Europe to invite customers to step inside the innovation laboratory and be first movers to develop the best products for the future.

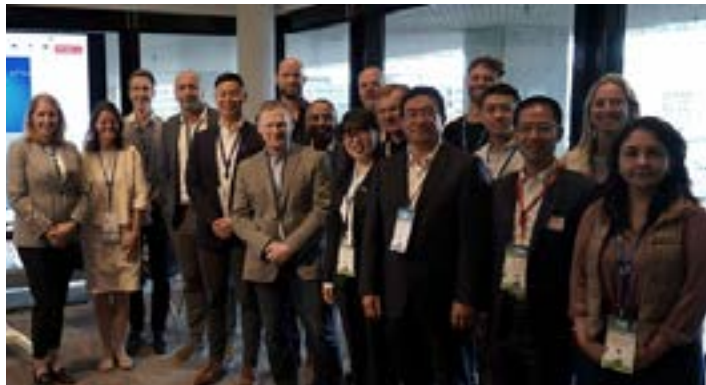
In their statement, APM Terminals shared, "Rolling out this feature, it also quickly became clear to us that we can do so much more, if we innovate together. Therefore, we are now asking customers to be part of our Innovators' Program, where customers, who are already using our digital solution will have early access to new features and at the same time, we will ask for direct feedback, so they can influence the products that we develop.

"From our current experience with the product, it is clear that co-creating the digital solutions of the future will make us be able to provide even better service that delivers timely logistics solutions and help us prepare for all the different obstacles modern logistics face." As they hope that customers will now actively join them they shared a Fact box.

Shipping Line Dashboard offers:

- **Improved Planning:** Complete visibility and reliable estimated completion times calculated using an advanced algorithm have a positive ripple effect on the whole onward logistics chain with reliable estimated times until completion and vessel departure
- **Increased Reliability:** Live data sent from cranes to our Terminal Operating System enables you to improve the accuracy of your own planning. Efficiency statistics for each crane working on a vessel
- **Real time:** Available 24/7 via our secure www.apmterminals.com platform from anywhere in the world.

ZEPA onboards leading organisations in container port industry



■ Agencies

The Zero Emission Port Alliance (ZEPA) announced the onboarding of 11 organizations from the container port industry. Among the members are APM Terminals, CATL, DP World, Kempower, Patrick Terminals, Port of Aarhus, Port of Rotterdam, Rocsys, Sany, SSA Marine, and ZPMC.

The ZEPA members are committed to accelerating the adoption of Battery-Electric Container Handling Equipment (BE-CHE) together. Their collective effort is aimed to take a significant step to speed up port decarbonisation and make BE-CHE affordable and accessible within this decade. The new members bring vital insights, contacts and a strong drive for decarbonisation to the alliance. The alliance is open to all industry partners and is run by an independent 3rd party Secretariat.

Ms. Sahar Rashidbeigi, Global Head of Decarbonisation, APM Terminals, stated: "Reflecting on our journey, it is incredible to see how far we have come since defining the problem at last year's TOC Europe conference. From the 'tipping point' White Paper nine months ago to launching ZEPA with DP World in December during COP28, and now onboarding 11 key members across the value chain, our progress highlights that we are addressing a valuable problem that resonates across the industry, and it affirms our conviction that collaboration is essential to tackle it effectively."

In the past months, ZEPA has conducted working sessions and initial analyses, and held its first formal Steering Committee during TOC Europe on June 11th.

ZEPA is led by its Steering Committee, which held its first successful meeting at TOC Europe in Rotterdam. During the meeting, ZEPA members highlighted their membership as a key priority in their efforts to reduce emissions and to bring forward the Total Cost of Ownership parity of battery electric equipment with diesel. Key industry leaders voiced their support and emphasised that change comes faster with cross-value chain collaboration. The alliance is designed and implemented in full compliance with all applicable anti-trust and competition laws, monitored by external legal counsel.

Representatives of ZEPA members were actively involved in several panels at TOC Europe, where the alliance' mission and progress were discussed, further emphasizing the urgency and collective effort required to reduce emissions. **ZEPA has kicked off work in three (of the four) workstreams:**

1. Projected Aggregated Demand

Measure and report projected aggregated global demand for BE-CHE, to incentivise Original Equipment Manufacturers (OEMs) to scale-up production and shorten their lead times.

2. Voluntary Design Standards

Develop voluntary and accessible design standards for untethered BE-CHE, to achieve economies of scale and simplify implementation through equipment interoperability and compatibility. This includes harmonising operational requirements and identifying potential for charging strategy harmonisation and component standardisation. Any design standards will be voluntary, public and accessible, without enforcement. The deliverables do not prevent stakeholders going beyond the standards in terms of BE-CHE performance. ZEPA actively seeks industry and public sector input in the process.

3. Power Infrastructure Rollout

Develop an electrification toolkit, including best practices and a technical checklist for port authorities and terminal operators to prepare for and implement the power infrastructure required for BE-CHE, shore power and other cargo segments at ports.