



Green Ports & Shipping Insights

January – February 2025 (Bi-Monthly)

Welcome Note

Welcome to the inaugural issue of *Green Ports & Shipping Insights*, your go-to source for the latest updates, innovations, and best practices in sustainable maritime operations. This information insight is designed to inform, inspire, and connect professionals dedicated to reducing the environmental footprint of ports and shipping activities.



National Initiatives

The Union Budget 2025–26 has introduced a ₹25,000 crore Maritime Development Fund to boost ship acquisitions and a ₹18,090 crore Shipbuilding Financial Assistance (SBFAP 2.0) to support Indian shipyards, along with the development of mega shipbuilding clusters and a 40% scrap value credit for shipbreaking.

[Source: PIB India](#)

Maritime India Vision (MIV) 2030, with its 150 initiatives, provides a comprehensive roadmap for the integrated development of India's ports, shipping, and waterways, aiming to establish India as a global maritime leader.

[Source: PIB India](#)

The Sagarmala Project modernizes ports, enhances logistics, and promotes sustainability.

[Source: Sagarmala](#)

The Ministry of Shipping and Ports has identified three key ports—Deendayal, Paradip and Tuticorin as green Hydrogen/Ammonia Hubs under National Hydrogen Mission by 2030.

[Source: PIB India](#)

The Green Tug Transition Program (GTTP) aims to transition India's harbour tug fleet from conventional diesel-powered vessels to greener alternatives.

[Source: PIB India](#)

Paradip Port in Odisha became India's largest major port by cargo volumes, handling 145.38 million tonnes in FY24.

[Source: PIB India](#)

On June 19, 2024, India approved a Major Port at Vadhavan, Maharashtra, with an estimated cost of ₹76,220 crore, boosting EXIM trade and accommodating mega vessels through public-private partnerships.

[Source: PIB India](#)

Visakhapatnam port is the pioneer in implementing solar power under Green initiatives and initiated 10 MW solar power plants at a cost of about ₹60 crore.

[Source: Visakhapatnam Port Authority](#)

International Initiatives

Port of Los Angeles has opened two hydrogen fuelling stations and introduced hydrogen-powered fuel cell electric cars in order to reduce air pollution.

[Source: Port of Los Angeles](#)

Hamburg Port has employed sensors to identify and monitor the emissions of sulphur dioxide, nitrogen dioxide and particulate matter and take the necessary control measures.

[Source: SAFETY4SEA](#)

Rotterdam Port is investing in shore power plants to reduce pollutants and noise. By 2030, most moored ships will be connected, with businesses potentially eligible for subsidies from the municipality for installing shore power systems.

[Source: Port of Rotterdam](#)

To make the large and complex port area even safer, more efficient and smarter, Antwerp Port of Belgium is working with various partners to build a network of autonomous drones.

[Source: Antwerp Port](#)

Busan Port's Smart Piezoelectric System generates green energy using the port's unique features. South Korea, a leader in eco-friendly initiatives, aims to cut greenhouse gas emissions by 40% by 2030 from 2018 levels.

[Source: World Port Sustainability Program](#)

In a major step towards decarbonizing the shipping industry, the European Union has extended its Emissions Trading System (EU ETS) to maritime transport, effective January 2024. This expansion now includes CO₂ emissions from all large ships (5,000 gross tonnage and above) entering EU ports, regardless of their flag.

[Source: European Commission](#)

DID YOU KNOW?

Asia ranks 2nd globally in port digitization services (51.4%), as per UNCTAD.

Green Corner

- [The MoPSW's Harit Sagar Guidelines](#) target a 30% emission reduction by 2030 and 70% by 2047, emphasizing renewable energy, emission control, water conservation, and sustainable waste management.
- [The International Maritime Organization \(IMO\)](#) has committed to achieving net zero emissions by 2050, with interim goals of 30% by 2030 and 80% by 2040.
- [Green Shipping Corridors](#) are global collaborations to establish zero-emission maritime routes to cut shipping-related greenhouse gas emissions.
- [Getting to Zero Coalition](#) aims to have commercially viable zero-emission vessels in operation on deep-sea trade routes by 2030.

News Highlights

India to explore green shipping and digital business with Singapore

19 March 2025|Business Standard

India and Singapore are exploring the development of a Green Digital Shipping Corridor. This initiative aims to link international ports and marine industries, integrating India's

green fuel and digital advancements into global trade through Singapore's significant maritime hub.

[Read more...](#)

World's First Dual-Fuel Ammonia-Powered Vessel Arrives in the UK

01 March 2025, Source:Maritime and Coastguard Agency, GOV.UK

The UK has welcomed the arrival of the Fortescue Green Pioneer, the world's first dual-fuel ammonia-powered vessel, marking a significant advancement in maritime decarbonization efforts.

[Read more...](#)

MOL Launches Innovative "Green" Ship Aptly Named Prima Verde

30th-Jan-2025 | Source: The Maritime Executive

Mitsui O S K Lines has launched the Prima Verde, a green multi-purpose cargo ship, as part of its strategy to achieve net zero GHG emissions by 2050. The vessel, built at the Onomichi Dockyard in Japan, is the world's first to use green steel materials, an engine that runs exclusively on marine gas oil (MGO), and a wind-assisted vessel propulsion system.

[Read more...](#)

Feasibility Studies ID Technology to Address Fugitive Methane Emissions

26th-Jan-2025 | Source: The Maritime Executive

The Safetytech Accelerate, an industry collaboration, has conducted feasibility studies to reduce fugitive methane emissions in the maritime industry. The studies show strong potential to reduce harmful unburnt methane entering the environment, which occurs across the LNG supply chain from loading to engine delivery.

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Adani's Mundra Port Welcomes its First-Ever LNG- Powered Vessel

26th-Dec-2024 | Source: The Economic Times

Adani Ports Mundra welcomed CMA CGM Fort Diamant, the first-ever LNG-powered container

vessel to dock at its Container Terminal-CT4. The ship's arrival reflects the port's commitment to sustainability and innovation.

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Cochin Shipyard Builds Environment-Friendly General Cargo Vessels for Norway's Wilson ASA

18th-Dec-2024 | Source: The Economic Times

Cochin Shipyard's subsidiary, Udupi-Cochin Shipyard, launched the first of six cargo vessels for Norway's Wilson ASA. These eco-friendly vessels, designed by Conoship International will operate in European coastal waters.

[Read more...](#)

Upcoming Events

- **The India Port Conference 2025**

May 8–9, 2025, Mumbai, India

[Read more...](#)

- **6th Decarbonizing Shipping Forum**

June 25–26, 2025, Hamburg, Germany

[Read more...](#)

- **Argus Sustainable Marine Fuels Conference**

September 10–12, 2025, Houston Texas, US

[Read more...](#)

- **The Global Maritime Forum Annual Summit**

October 21–22, 2025, Antwerp, Belgium

[Read more...](#)

- **KORMARINE International Maritime & Energy Exhibition**

October 21–24, 2025, Busan, South Korea

[Read more...](#)

Policy Update

IMO's Revised GHG Strategy

The International Maritime Organization (IMO) targets a 20–30% emissions cut by 2030 and 70% by 2040.

[Read More...](#)

India's Push for Green Ports

- India's Maritime Vision 2030 and Maritime Amrit Kaal Vision 2047 are revolutionizing its maritime sector:
- Investment: \$82 billion allocated for port projects by 2035.
- Green Hydrogen: Developing green hydrogen refueling stations.
- Renewable Energy: Paradip and Visakhapatnam Ports lead in solar power projects.
- Modernization: Sagarmala Project enhances logistics and sustainability.
- Stricter emissions reporting requirements.
- Greater emphasis on carbon intensity indicators (CII).
- Funding opportunities for green innovation.

DID YOU KNOW?

India, Bangladesh, and Pakistan recycle 84% of the world's ships.

Case Studies

Port of Detroit on Route to Reach Net Zero by 2040.

A transformative project targeting significant reductions in the port's environmental impact while improving air quality. The initiative is projected to improve operational efficiency and create cost-saving opportunities in and around the port.

[Read more...](#)

Optimizing Vessels' Fuel Efficiency: A Data-Driven Case Study.

This case study examines the significant reductions in fuel consumption, costs, and

environmental impact realized through our fuel efficiency programme for our client's fleet.

[Read more...](#)

ESPO: More than half of European ports provide shore power.

This report emphasizes the Top 10 Environmental Priorities, a ranking that highlights key environmental challenges for European ports. Providing crucial insights for ESPO and European policymakers, it underscores climate change as the top concern for the third year running.

[Read more...](#)

Latest Announcements and Launches by the Ministry of Ports, Shipping and Waterways (MoPSW):

1. Announcement of India Maritime Week 'Maritime Virasat and Maritime Vikaas', to be held from October 27–31, 2025 in Mumbai
2. Launch of 'One Nation-One Port' to improve efficiency and simplify business operations in Indian Maritime Sector through video and booklet
3. Launch of Sagar Ankalan – Rankings to assess port performance and promote operational excellence through video and flyer
4. An MoU was signed between Indian Ports Global, Indian Ports Rail & Ropeway Corporation and Sagarmala Development Company to form the Bharat Ports Global Consortium.
5. Launch of NCoEGPS Website to promote sustainability in the maritime sector of India by highlighting the best green practices adopted. Source: PIB India

Source: [PIB India](#), [MoPSW](#)

Together Towards a Greener Future

For feedback and contributions email us at: ncoegps@green-port-shipping.org