



Port of
LONG BEACH
THE PORT OF CHOICE

NAVIGATING HEADWINDS CHALLENGING IMPLEMENTATION OF ZERO-EMISSIONS MARINE FUELS

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STORMS, FLOODING & SEA LEVEL DEFENSE
2025 CONFERENCE

[Shipping](#) [Global Maritime Affairs](#) [Sustainability and Decarbonisation](#)

IMO vote stalls global shipping decarbonisation plan

October 20, 2025

By Dom Magli



[LINKEDIN](#)



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Net-zero by 2050: Achieving shipping decarbonization through industry momentum and the new ambition at IMO

22 September 2023

By Ingrid Sidenvall Jegou et al., Global Maritime Forum, Article No. 108 [UNCTAD Transport and Trade Facilitation Newsletter N°99 - Third Quarter 2023]



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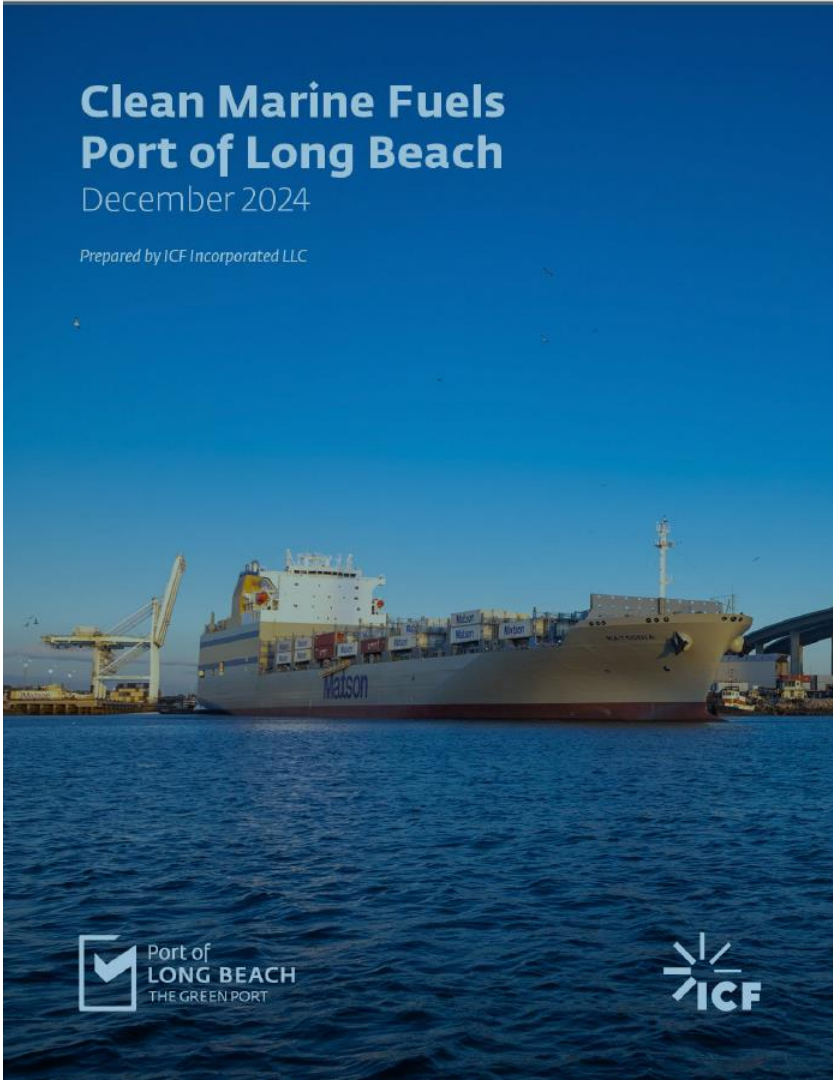
Green Shipping Corridors



Clean Marine Fuels Port of Long Beach

December 2024

Prepared by ICF Incorporated LLC



Clean Marine Fuels White Paper

- Port of Long Beach commissioned ICF Consulting to develop a white paper
- Educational resource and guidance document
- **polb.com/environment/air**

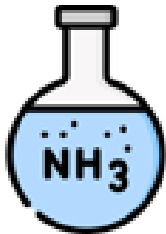
Cleaner Fuel Options



Green Hydrogen



Green Methanol



Green Ammonia



Renewable LNG



Biofuels



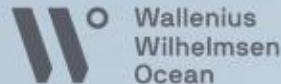
MSC plans to deploy its first net-zero carbon emissions-capable ship by 2030



Maersk plans to use green fuels for at least 25% of its cargo by 2030, supported by the deployment of methanol-enabled vessels



Carnival aims for net carbon-neutral ship operations by 2050 through alternative fuels

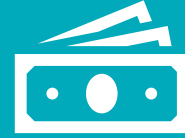


Wallenius Aims for net-zero emissions by 2050 and a 27.5% reduction in carbon intensity by 2030.

Challenges



**Fuel
Availability**



High Cost



**Technology
Gap**



**Infrastructure
Gap**



**Regulatory
Issues**

What is the Port's Role in Shipping Decarbonization?



Facilitate fuel availability by supporting bunkering infrastructure and supply chain investments



Continue to support shore power



Provide incentives and preferential rates for alternative fuel adoption



Collaborate with shipping lines and suppliers to support decarbonization

RECOMMENDATIONS

Market Based Mechanisms for Clean Marine Fuels	Implement tools like low-carbon fuel standards and GHG levies to incentivize clean fuel adoption.
Green Ship Incentive Programs	Expand initiatives that reward vessels using alternative fuels and meeting emissions standards.
Fueling Infrastructure Development	Invest in fuel storage, bunkering, and distribution systems for green hydrogen, methanol, and ammonia.
Technology Demonstration	Conduct pilot projects to test and validate clean fuel technologies and assess environmental benefits.
Leverage Green Shipping Corridors	Strengthen low- and zero-emission trade routes to encourage early adoption and knowledge sharing.
Streamlining the Permit Process	Simplify regulatory approvals to accelerate clean fuel infrastructure projects.
Funding Support	Increase grants and financial incentives for fuel supply, infrastructure, and clean technology deployment.

Next Steps



**Feasibility
Assessments**



**Strengthen
Partnerships**



**Technology
Demonstrations**



Policy Advocacy



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THANK YOU

