The role of ports in facilitating the decarbonization of shipping



international association of ports and harbors

Global Supply Chain Forum Barbados, 22 May 2024

Antonis Michail, Technical Director IAPH

IMO Ports Resolution MEPC.366(79)

Voluntary cooperation between ports and shipping on GHG emission reduction from ships

Juneau Los Angeles Long Beach Cakland San Diego San Francisco Seattle

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- Onshore Power Supply
- Safe and efficient bunkering of low/zero carbon fuels
- Port incentives
- Port call optimization and JIT
- Green corridors and energy hubs



IAPH session at IMO on progress implementing the Ports Resolution



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MEPC 80/7/2

28 April 2023

MARINE ENVIRONMENT PROTECTION COMMITTEE Original: ENGLISH 80th session Pre-session public release: Agenda item 7

REDUCTION OF GHG EMISSIONS FROM SHIPS

World ports progress in delivering on the key areas identified by resolution MEPC.366(79)

Submitted by IAPH

SUMMARY

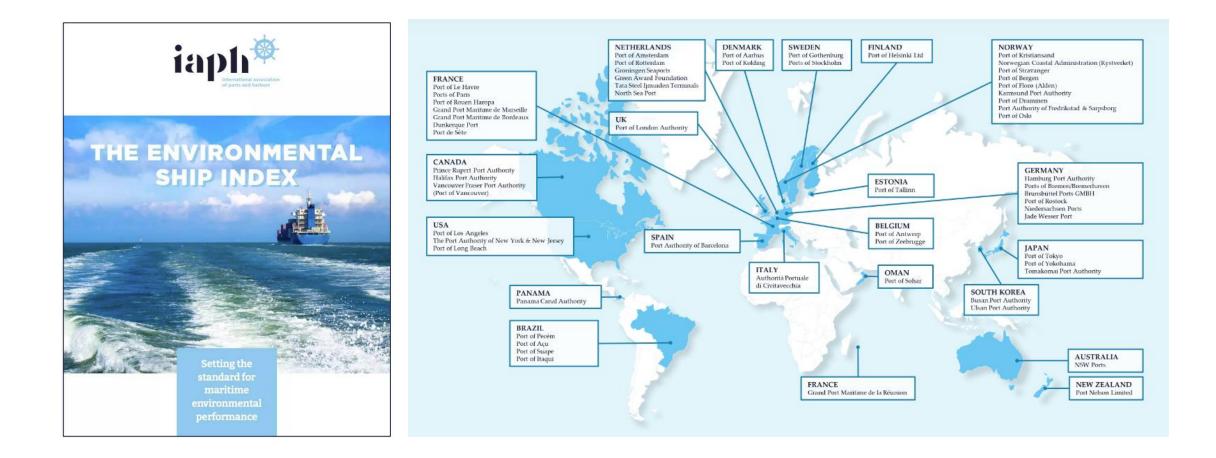
Executive summary: This document provides a progress report on the efforts and initiatives of world ports towards the areas identified under resolution MEPC.366(79) on Voluntary cooperation between the port and shipping sectors to contribute to reducing GHG emissions from ships. The document informs on the status of relevant IAPH and world ports' initiatives and highlights remaining challenges while making recommendations to overcome these.

Strategic direction, if applicable:	3
Output:	3.2
Action to be taken:	Paragraph 28
Related documents:	MEPC 79/7/14; MEPC 80/7/6; FAL 46/5/1 and resolutions MEPC.323(74) and MEPC.366(79)





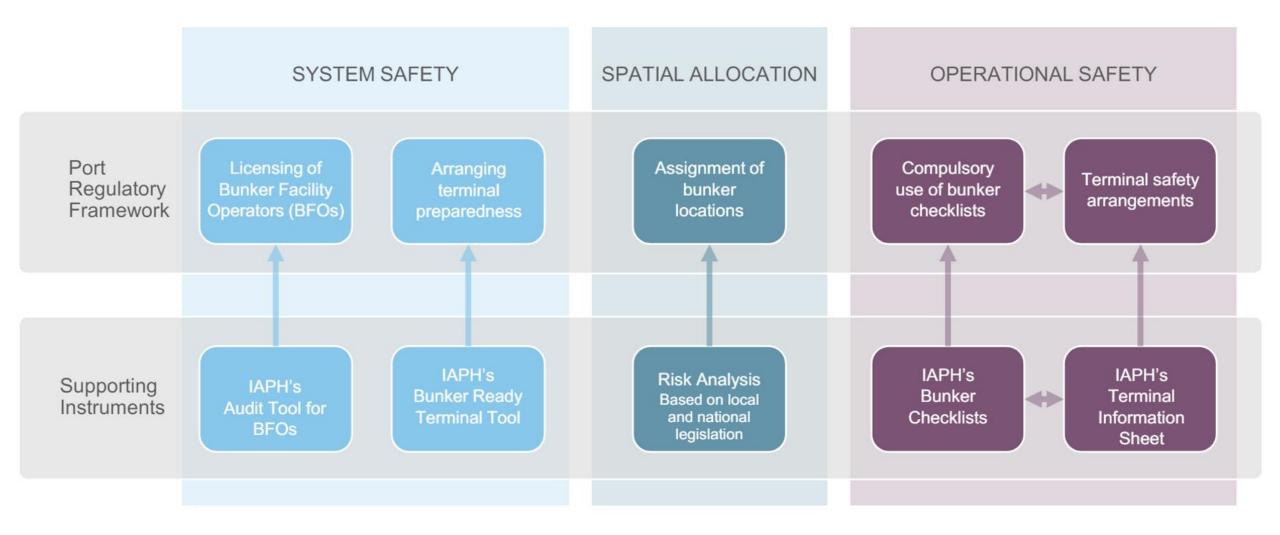
Environmental Ship Index



https://www.environmentalshipindex.org



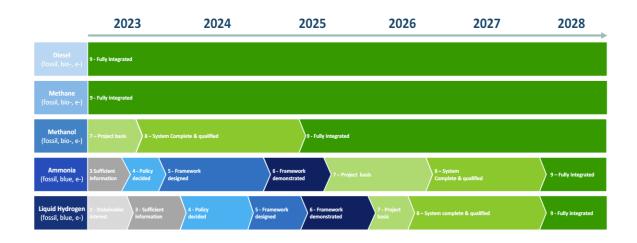
Clean Marine Fuels (CMF) safety framework and toolikit



Ongoing work for completing the full toolkit for hydrogen, ammonia, and methanol

Port Readiness Level for Marine Fuels

PRL-MF 9		Market penetration and growth for bunkering of target fuel				
PRL-MF 8	Deployment	Full capabilities for bunkering of target fuel				
PRL-MF 7		Bunkering of target fuel established on a project basis				
PRL-MF 6		Pilot-scale demonstration of bunkering of target fuel				
PRL-MF 5	Development	Framework for bunkering of target fuel implemented and tested				
PRL-MF 4		Framework for bunkering of target fuel drafted, timeline developed				
PRL-MF 3		Detailed research, analysis, and conclusions				
PRL-MF 2	Research	Stakeholder interest and feasibility assessment				
PRL-MF 1		Foundational background information				



PRL application	
For bunkering operations	V
For vessel calls <u>sailing</u> on new fuels	
For vessel calls transporting new fuels as <u>cargo</u>	





First digital PRL assessment tool for bunkering to be launched in October



CEM Hubs initiative



AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL

Together Governments and industry will seek to establish Clean Energy Marine Hubs across the globe, providing low-carbon fuels for all

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Initial supporting governments

	[*]			*		*
Brazil	Canada	Greece	Norway	Panama	UAE	Uruguay





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Thank you!

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