

# Sustainable development of ports; key challenges and ongoing work by IAPH



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Founded in 1955, IAPH is the global port alliance, representing today around 180 port regular members and 150 associate members linked to ports in 87 countries. Together, IAPH port members handle more than one third of global maritime traffic and more than 60% of container traffic.

IAPH has a consultative status and represents the interests of world ports at IMO and additional UN agencies such as the ILO, UNCITRAL, UNCTAD (UN Conference on Trade and Development), UNEP (UN Environment Program) and the UN Global Compact.

IAPH works closely with the World Bank, and World Customs Organization, the Global Maritime Forum, and World Economic Forum.

Leading the World Ports Sustainability Program (WPSP)

Key strategic focus areas: Climate and Energy, Data Collaboration, Risk and Resilience



# World Ports Sustainability Program



 [www.sustainableworldports.org](http://www.sustainableworldports.org)

Mission : To integrate the 17 UN SDGs in port governance





# WPSP Database of sustainability projects

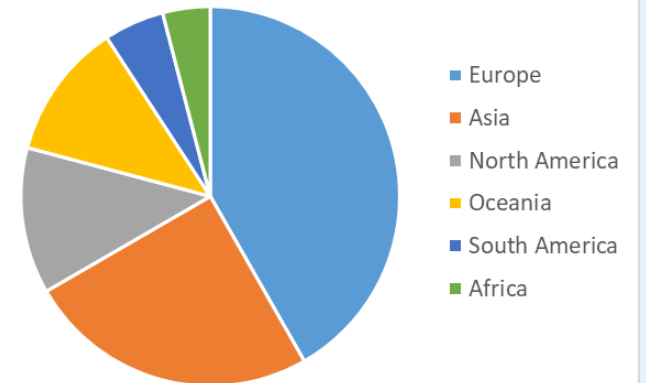


327  
PROJECTS

132  
PORTS

58  
COUNTRIES

Number of projects per Continent



# IAPH Sustainability Awards



✓ **Call for entries for 2024 – deadline 24 May**


#IAPH2023  
SUSTAINABILITY AWARDS  
WINNERS


<p>INFRASTRUCTURE</p> 	<p>DIGITALIZATION</p> 
<p><b>Busan Port Authority</b> Recycling of aggregates for construction</p>	<p><b>Halifax Port Authority</b> Data Enhancement Framework 2 (DEF2)</p>
<p>CLIMATE AND ENERGY</p> 	<p>COMMUNITY BUILDING</p> 
<p><b>Port Authority of Santa Cruz de Tenerife</b> Tenerife Port ZERO</p>	<p><b>Puerto Dock Sud</b> Gender Equality; "Train for Work" program</p>
<p>ENVIRONMENTAL CARE</p> 	<p>HEALTH SAFETY &amp; SECURITY</p> 
<p><b>Yeosu Gwangyang Port Authority</b> Marine Plastic Collection and Utilization Network</p>	<p><b>Yeosu Gwangyang Port Authority</b> Keeping port workers healthy</p>



# Port Endeavor business game on SDGs

- Knowledge base concept was created at a joint UNCTAD-IAPH workshop in Geneva HQ in April 2019
- Development game dynamics and content by IAPH and experts from Port of Antwerp-Bruges
- Real life examples from the WPSP database of 320+ projects and best practices from 132 ports from 58 countries
- Offered in partnership with: APEC – Antwerp & Flanders Port Training Centre and UNCTAD TrainForTrade
- Available in English, Spanish and French
- More than 30 training sessions to date in 16 countries



# Port Endeavor training session – join us tomorrow at 10am



## CUT DOWN ON CARBON & GHG EMISSIONS

The city has developed a vision to achieve carbon neutrality. This implies efforts to reduce landside greenhouse gas (GHG) emissions. The port is a vital part of this project.

However, the seaborne and waterside CO2 emissions from vessels haven't been tackled yet. The port management body is asked to take action and assist in the decarbonization of shipping.

### SOLUTIONS

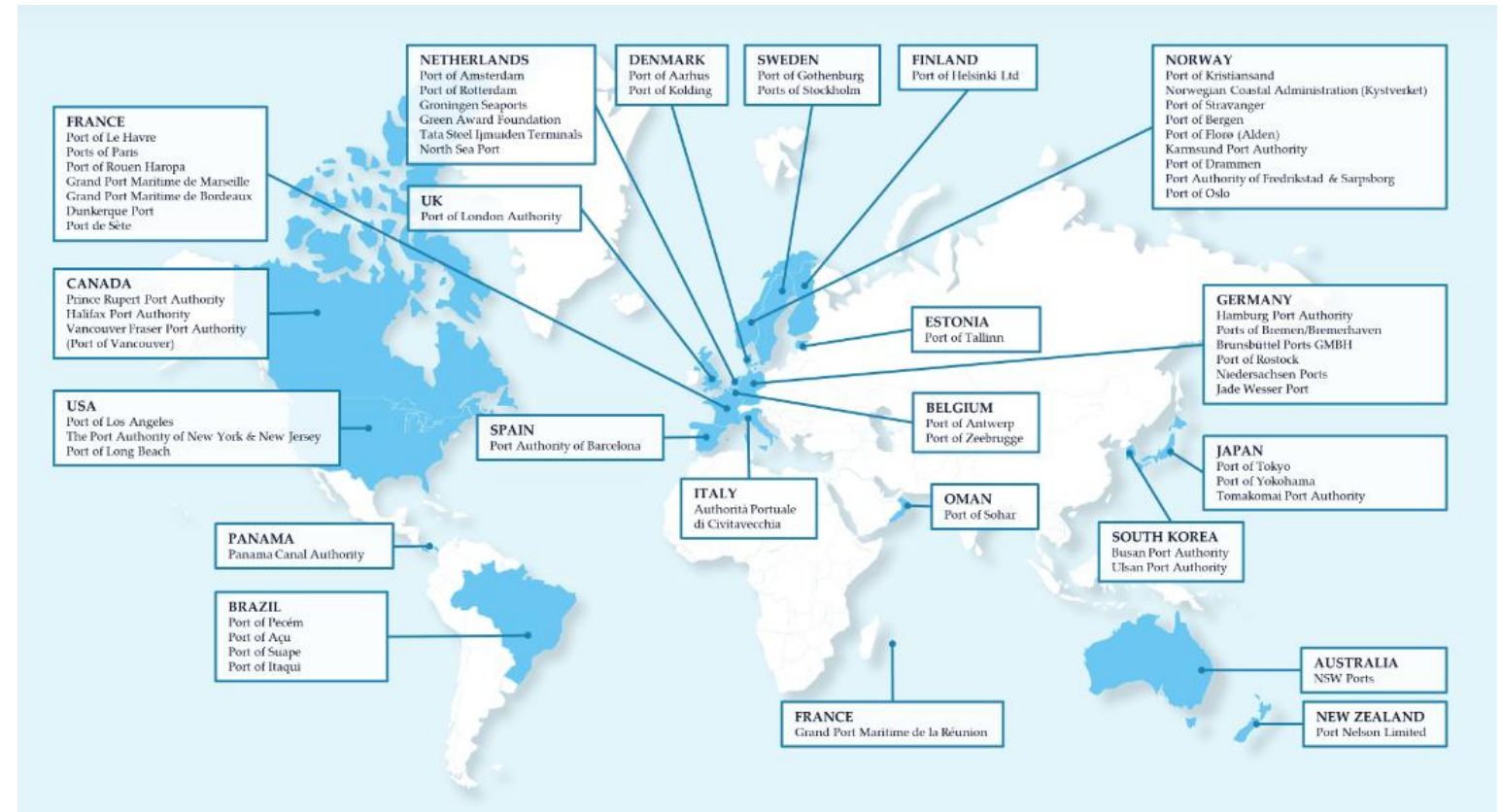
<p><b>1</b> Cost: 3 ⚡</p> <p>You partner up with other ports to provide common incentives for more efficient and less polluting vessels who visit the port, based on the Environmental Ship Index (ESI).</p>	<p><b>2</b> Cost: 4 ⚡</p> <p>You work together with shipping companies and nautical chain stakeholders on port call optimization. That way, you enable Just-In-Time (JIT) arrival of vessels. As a result you reduce berth waiting time and ultimately reduce gas emissions.</p>
<p><b>3</b> Cost: 6 ⚡</p> <p>You work together with bunker suppliers, shipping companies and authorities to ensure the supply and availability of low- and zero-carbon fuels. Meanwhile, you address any legal and infrastructural barriers that might undermine the efficient and safe handling and bunkering of such fuels.</p>	<p><b>4</b> Cost: 8 ⚡</p> <p>You invest in the provision of Onshore Power Supply (OPS) from renewable energy sources in all terminals of the port.</p>

**PORT ENDEAVOR**





# Emissions toolkit under Climate and Energy



<https://www.environmentalshipindex.org>







## Clean Marine Fuels

About

LNG as a fuel ▶

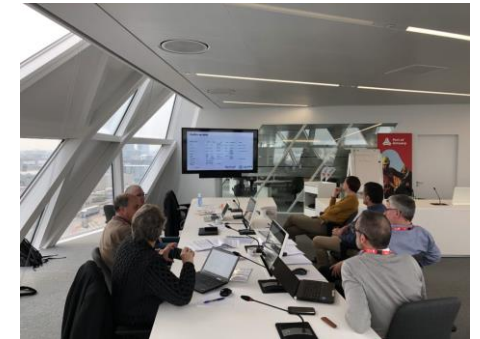
Hydrogen as a fuel

Methanol as a fuel

Ammonia as a fuel

Database of reports and report reviews on alternative marine fuels

# Clean Marine Fuels



<https://sustainableworldports.org/clean-marine-fuels>

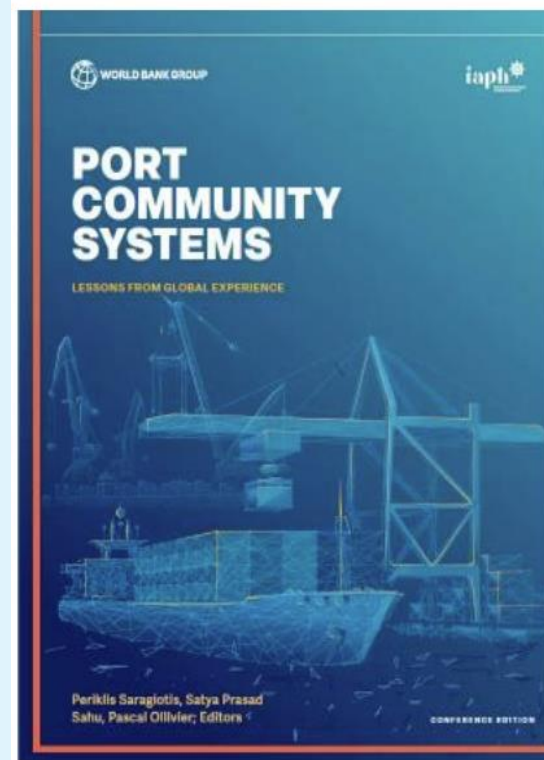
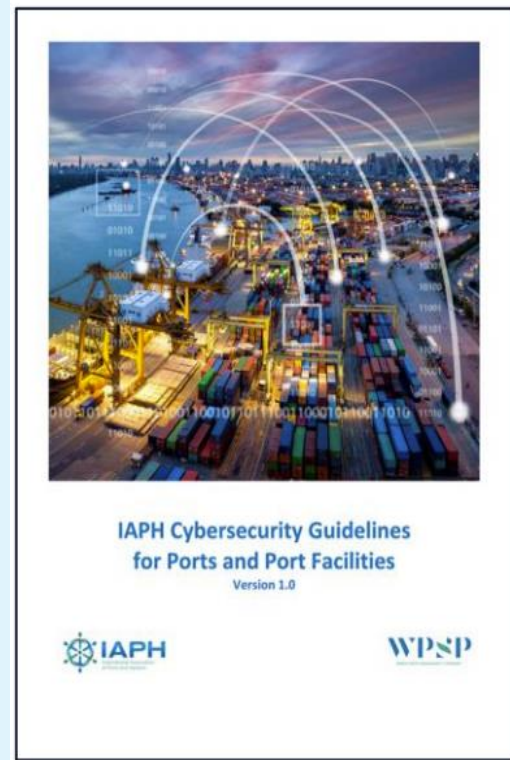
# Port Readiness Levels for Marine Fuels



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

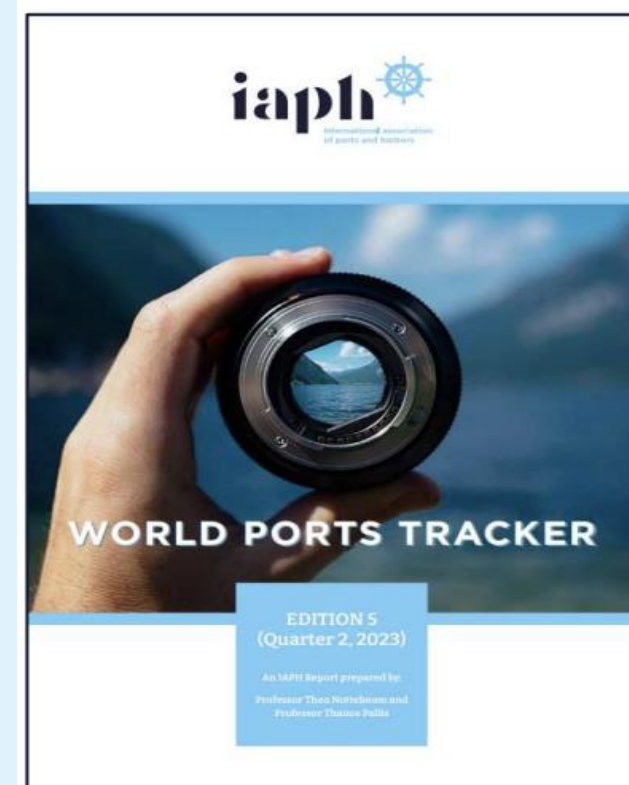
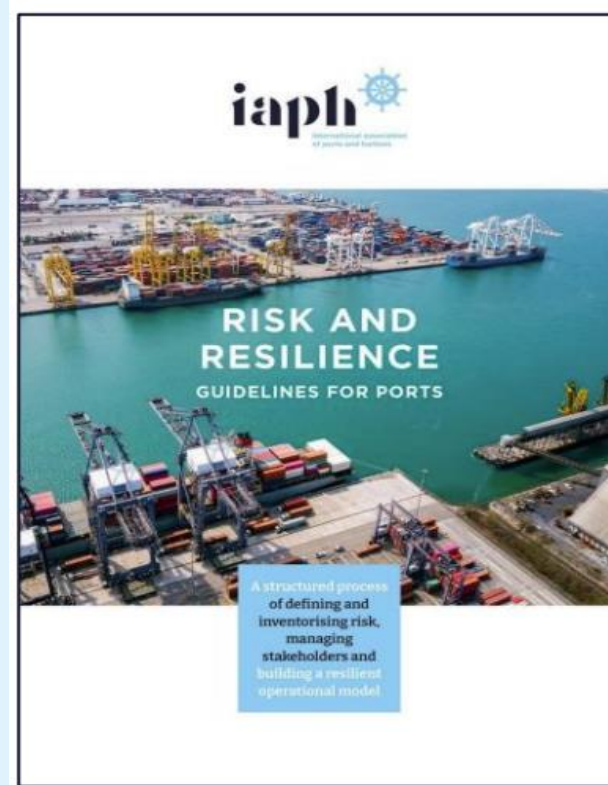


# Knowledge sharing on Data Collaboration



<https://www.iaphworldports.org/themesarchives/data-collaboration/>

# Knowledge sharing on Risk and Resilience



<https://www.iaphworldports.org/themesarchives/risk-resilience/>



Thank you!

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