



Norwegian Ministry
of Climate and Environment

 **Norway**

Pioneering sustainability



Norwegian Consulate General
Mumbai



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of ports and harbors

Open call for workshop participation Port actions for greener shipping

Mumbai, India
10-12 October 2023

The IMO-Norway GreenVoyage2050 Project, in collaboration with the International Association of Ports and Harbours (IAPH), the Directorate General of Shipping of India (DGS) and the Royal Norwegian Consulate General Mumbai are holding the above-mentioned in-person workshop from 10 to 12 October 2023, in Mumbai.

The workshop will take place over three days and train participants on emission reduction opportunities in ports, aligned with IMO's resolution MEPC.366(79) encouraging voluntary cooperation between the port and shipping sectors to contribute to reducing GHG emissions from ships.

Day 1 will provide an introduction and overview of various measures a port can consider contributing to reducing port / ship emissions. Days 2 and 3 will see participants split into two groups – one focussing in on more detail on Onshore Power Supply (OPS) and the other exploring the ports perspective of alternative marine fuels. More information about these two workshops, along with the suggested participant profile is provided below, and the workshop programme overview is attached.

Onshore Power Supply	Alternative marine fuels – a ports perspective
<p>Aim: OPS is one of many strategies that have potential to reduce emissions from ships while at-berth. The training will provide participants with an in-depth overview of OPS from the port perspective and dive into the various analyses which need to be undertaken to assess feasibility and potential usage before any investment/implementation decisions are made.</p>	<p>Aim: Familiarize port operators with alternative marine fuels that will likely play a key role for ships in the coming decades, and support port representatives with know-how to prepare for the new fuels and identify opportunities for future development. The workshop will include an overview of the different types of future fuels, and drivers for their uptake, and present in detail how ports can assess their readiness and prepare for the provision of zero and near-zero GHG fuels.</p>
<p>Audience: Port stakeholders strongly considering OPS as part of their air quality improvement and/or decarbonization strategy(ies). Targeted attendees include port/terminal executive management, environmental branch management, and infrastructure planning management, and others in port management that would be involved in decisions related to OPS as an emission control strategy.</p>	<p>Audience: Port stakeholders strongly considering the provisioning of alternative marine fuels in their port. Targeted attendees include those responsible for safety in port operations, bunkering, governance of safety regulations, which could be, but not limited to, harbor masters, national authority, coastguard.</p>

Eligibility and application procedures

- This in-person workshop is only open to participants from GreenVoyage2050 partnering countries: Azerbaijan, Belize, China, Cook Islands, Ecuador, Georgia, India, Kenya, Malaysia, Solomon Islands, South Africa, Sri Lanka.
- For each GreenVoyage2050 partnering country, two participants will be accepted and funded to join the workshop: one participant will be selected for OPS, and one participant will be selected for Alternative marine fuels.
- All applications to attend must be submitted via the application form set out below. Applications will be screened and approved by the GreenVoyage2050 team, and more information will be provided to those successful applicants invited to attend.
- Applicants must indicate in the application form which training focus they wish to apply for (either OPS or Alternative marine fuels).
- The workshop will be conducted in English only and therefore, participants are required to be proficient in the English language.
- Confirmed participants will be sponsored to participate in the workshop, which includes a return airfare (economy class) using the most direct and economical route, and a daily subsistence allowance (DSA) to cover accommodation, meals and incidentals. It is the responsibility of the confirmed participant to organize and arrange the necessary visas required for their travel, and any costs related to visas will **not** be covered by IMO.
- For the host country (India), more participants will be invited to join. However, no sponsorship / funding to attend will be provided by GreenVoyage2050.
- Confirmed participants will receive additional information on the venue and other arrangements for the workshop in due course.
- Confirmed participants, once accepted by IMO for participation, cannot be substituted.
- There will not be opportunities for remote participation.

To apply to attend this workshop, please complete the [application form](#) by **Sunday, 30 July 2023**. This deadline will be strictly adhered to, and applications received after the deadline will not be accepted.



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Workshop Programme Overview (Provisional)

Port actions for greener shipping

Mumbai, India,
10-12 October 2023

10 October 2023	
Session 1: Introduction to reducing emissions at the ship-port interface: important context and background	
Session 2: Low-cost measures to reduce emissions in ports	
Session 3: Port Call Optimization and Just in Time arrival	
Session 4: Enabling safe and efficient handling and bunkering of alternative marine fuels	
Session 5: Onshore power supply (OPS)	
Session 6: Reducing emissions from domestic harbour craft	
Session 7: Incentives for emission reduction measures	
Session 8: Cooperation across the value chain	
End of Day 1	
11 October 2023	
Onshore Power Supply	Alternative marine fuels – a ports perspective
SESSION 1: Basic Understanding of Onshore Power Supply (OPS)	SESSION 1: Alternative fuels for shipping
SESSION 2: Phase 1 Screening - Grid & Fleet Analysis	SESSION 2: The role of ports
SESSION 3: Phase 1 Screening - OPS Emission Analysis, Outreach & Usage	SESSION 3: Assessing port readiness for alternative fuels “When are ports ready?”
End of Day 2	
12 October 2023	
Onshore Power Supply	Alternative marine fuels – a ports perspective
SESSION 4: Phase 2 Feasibility - Feasibility Analysis for Ports	SESSION 4: Green corridor concept/ongoing initiatives
SESSION 5: Phase 2 Feasibility - Selecting, Financing, Future, & Case Study	External Presentation and Group Discussion
IAPH Ports Interactive Activity (Afternoon)	
End of Day 3	