Towards Greener Shipping: Strategic Support to Developing Countries through Innovative Projects and Partnerships

Jose Matheickal (presenter/panelist)
Youngso Kim (Panelist)
Gyorgyi Gurban (Panelist)
Sandra Allnutt (panelist)

Department of Partnerships & Projects (DPP)
TC: The Continuum of Capacity Building

Partnership Projects (Climate Change Related)

Partnership Projects (Oceans Related)

Projects in pipeline
TC: The Continuum of Capacity Building

- Partnership Projects (Climate Change Related)
- Partnership Projects (Oceans Related)
- Projects in pipeline and emerging project concepts
IMO’s Capacity Building Continuum

- Awareness Raising
- Human Capacity Building
- Legal, Policy & Institutional Capacity Building
- Technological & Infrastructure Capacity Building

ITCP
Long-term Projects
Develop Partnerships
Mobilize Resources
Implement Long-term Projects
Promote Inclusive Innovation, Tech. & Infrastructure
Current IMO Projects Portfolio (cumulative) & 2023 Prediction (US$ million) : Cash

On average 1:4 In-kind co-financing mobilized = $350 million
TC: The Continuum of Capacity Building

Partnership Projects (Climate Change Related)

Partnership Projects (Oceans Related)

Projects in pipeline and emerging project concepts
IMO’s Ongoing Long-term Capacity Building Projects (Climate Change Related)

- GMN: The Global MTCC Network
- ZERO AND LOW-EMISSION INNOVATION FORUM
- IMO CARES: Coordinated Actions to Reduce Emissions from Shipping
- GHG SMART
- NEXT GEN: Towards Green and Efficient Navigation
- Green Voyage 2050
- FIN-SMART
IMO’s Voyage Together Projects related to Climate Change

Foundation Building / Enabling
- IMO-CARES
- FIN-SMART
- MARITIME INNOVATION FORUM
- GLOBAL INDUSTRY ALLIANCE

Regional Cooperation
- NEXTGEN
- NEXTGEN CONNECT
- NATIONAL ACTIONS
- MTCCs
- GHG-SMART (SIDS/LDCS)
- GREENVOYAGE 2050

National Actions
- MTCCs
- GHG-SMART (SIDS/LDCS)
- GREENVOYAGE 2050

Regional Cooperation
- NEXTGEN
- NEXTGEN CONNECT
- NATIONAL ACTIONS
- MTCCs
- GHG-SMART (SIDS/LDCS)
- GREENVOYAGE 2050
Towards green and efficient navigation

NextGEN: Shaping the Future of Maritime

*NextGEN*, where GEN is short for "Green and Efficient Navigation", is a joint project between MPA and IMO aiming to develop a collaborative global ecosystem of maritime transport decarbonisation initiatives.
The “Google” of maritime decarbonization projects

Over 250 projects in the NextGEN portal (nextgen.imo.org)
Accelerating technology transfer for a voyage together

GEOGRAPHIC FOCUS: Global
TOTAL BUDGET: 0.4 Million USD (design phase)
DONOR: Kingdom of Saudi Arabia
IMPLEMENTING PARTNERS: IMO
PROJECT DURATION: Jan - Dec 2022
WEBSITE / CONTACT: imocares.imo.org
partnerships@imo.org
• Identify specific solution needs of SIDS and LDCs
• “SMART-Challenge” (competition among solution providers)
• Connect solution providers to the end users through MTCCs
• Support pilot projects
Roundtable of International Financial Institutions

Financing maritime decarbonization in developing countries, LDCs and SIDS

- 3 roundtables completed
- Dedicated human resources allocated
IMO-UNEP Forum

1 and 2\textsuperscript{nd} Forum: Over 3000 delegates

3\textsuperscript{rd} Forum: 2023, London

Championing innovation for maritime decarbonization
IMO - GLOBAL INDUSTRY ALLIANCE
LOW-CARBON SHIPPING (Funds: Industry)
**Introductory Course on Energy Efficient Ship Operation**

~ 12,000 registered in one year
~ 6,000 received certificates

Do you want to minimize the effects of climate change? Here’s how...

This course will help you better understand how the maritime industry can reduce its environmental carbon footprint through practical measures to save energy on board. The course is divided into two modules:

- Module 1: Greenhouse gases and energy efficiency in the maritime industry
- Module 2: Operational energy management

Click here to access the course.

**Energy Saving at Sea**

How can the shipping industry be more energy efficient?

Just launched

The course, designed for ship operators, covers detailed practical measures that can be taken by the Engine department and Deck department on board ships to save energy in their day-to-day operations. The course is divided into two modules:

- Module 1: Energy saving by the Engine department
- Module 2: Energy saving by the Deck department

Click here to access the course.
IMO's Voyage Together Projects related to Climate Change

- IMO-CARES
- FIN-SMART
- MARITIME INNOVATION FORUM
- GLOBAL INDUSTRY ALLIANCE

- NEXTGEN CONNECT
- MTCCs

- GHG-SMART (SIDS/LDCS)
- GREENVOYAGE 2050

Foundation Building / Enabling
Regional Cooperation
National Actions
A GLOBAL NETWORK TO SUPPORT IMO’s INITIAL GHG STRATEGY THROUGH CAPACITY BUILDING AND TECHNOLOGY TRANSFER

- 3000 Participants
  - 70% (30%)

- 309 Total Stakeholders
  - 116 Shipping Lines
  - 59 Port Authorities
  - 3 Private Ports

- 5 MTCCs
- 5 Fuel Consumption Data Collection Projects
- 5 Technology Pilots

- 4403 Participating Vessels
- 10 Million funds by EU
  - 2 Million IN-KIND support

- 151 Participating Countries
- 42 Small Islands Developing States and 40 Least Developed Countries

- 81 Workshops
  - 8 General
  - 34 Regional
  - 9 Sectoral
  - 30 Technology

The Global Maritime Technology Cooperation Centres Network project is funded by the European Union.
IMO’s Voyage Together Projects related to Climate Change

- IMO-CARES
- FIN-SMART
- MARITIME INNOVATION FORUM
- GLOBAL INDUSTRY ALLIANCE
- NEXTGEN
- NEXTGEN CONNECT
- MTCCs
- GHG-SMART (SIDS/LDCS)
- GREENVOYAGE 2050

Foundation Building / Enabling

Regional Cooperation

National Actions
Supporting SIDS and LDCs to implement the IMO GHG Strategy
GHG SMART: Progress So far

- Delivery of online training (15 SIDS/LDCS)
- Trainee-specific individual training programme
- Practical training and industry site visits in R. O Korea
- Follow-up to practical training with each trainee
- Participants’ Recognition Scheme (WMU Fellowships)

- Call for participation in 2nd Training Course in Republic of Korea in 2023
Request for nomination of next GHG-SMART Training (CL No: 4644)

Closing date: 10 Jan 2023

To: All IMO Members
   Intergovernmental organizations
   Parties to the MARPOL Convention which are not Members of IMO

Subject: Call for Nominations of Participants in the second round of the Sustainable Maritime Transport Training Programme to support the implementation of the IMO Strategy on Reduction of GHG Emissions from Ships (GHG-SMART)
Supporting shipping’s transition towards a low carbon future

New Pilot Countries: Azerbaijan, Belize, Cook Islands, Ecuador, Kenya, Solomon Islands and Sri Lanka
Pioneer Pilot Countries: China, Georgia, India, Malaysia and South Africa

TOTAL BUDGET: 7.15 Million USD
DONOR: Norwegian Ministry of Climate and Environment
PROJECT DURATION: 2019-2022
WEBSITE / CONTACT: greenvoyage2050.imo.org, greenvoyage2050@imo.org
GreenVoyage2050

Technology demonstration

Capacity Building

Legal, Policy (NAPs)
Pioneer Pilot Countries

- China
  Maritime Safety Administration
- Georgia
  Maritime Transport Agency
- India
  Directorate General of Shipping
- Malaysia
  Ministry of Transport
- South Africa
  Ministry of Transport

New Pilot Countries

- Azerbaijan
  State Maritime Agency
- Belize
  Belize Port Authority
- Cook Islands
  Ministry of Foreign Affairs & Immigration
- Ecuador
  Subsecretaría de Puertos y Transporte Marítimo y Fluvial
- Kenya
  State Department For Maritime And Shipping Affairs
- Solomon Islands
  Maritime Authority
- Sri Lanka
  Marine Environment Protection Authority
Outline

TC: The Continuum of Capacity Building

Partnership Projects
(Climate Change Related)

Partnership Projects
(Oceans Related)

Projects in pipeline and emerging project concepts
IMO’s Long-term Capacity Building Green Projects (Oceans & Security Related)

GloLitter

GloFouling

SENSREC

GLONOISE

MEPSEAS

TEST Biofouling

CARIB-SMART (Prep)
Preventing the spread of invasive aquatic species
Technology Demonstration and Transfer

**GEOGRAPHIC FOCUS**
Lead Partnering Countries: Brazil, Ecuador, Fiji, Indonesia, Jordan, Madagascar, Mauritius, Mexico, Peru, Philippines, Sri Lanka, Tonga.
Partnering Countries: Argentina, Chile, China, Comoros, Djibouti, Islamic Rep. of Iran, Jamaica, Malaysia, Nigeria, Somalia, Sudan, Suriname, Eswatini.

**TOTAL BUDGET**
4 Million USD

**DONOR**
The Norwegian Agency for Development Cooperation (Norad)

**IMPLEMENTING PARTNERS**
MTCC Africa, MTCC Caribbean, MTCC Pacific.

**PROJECT DURATION**
2022-2025

**WEBSITE / CONTACT**
partnerships@imo.org
Reducing sea-based marine plastic litter
Protecting South-East Asian seas

GEOGRAPHIC FOCUS: South-East Asia

TOTAL BUDGET: 2 Million USD

DONOR: Norwegian Agency for Development Cooperation (Norad)

PROJECT DURATION: 2018-2021 (Extension to 2022)

WEBSITE / CONTACT: mepseas.imo.org, mepseas@imo.org

An IMO project under the Department of Partnerships & Projects (DPP)
**Phase-1 (2014-18)**

- Accession / Start Implementation
- Draft National Policy specific to the Convention
- Draft National Legislation to domesticate the Convention
- Prepare all documents for accession / implementation
- Draft documented procedure for accession / implementation

**Phase-2 (2019-22)**

- Start Full Implementation
- Training for Implementation
- Remobilize National Task Force (NTF)
- Pilot Implementation / PSC
- Training on PSC/FSI
- Draft documented procedure for implementation / Enforcement
## Baseline scenario at start of Phase 1

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Note: Myanmar did not participate in Phase 1
# Scenario at end of MEPSEAS (Phase 2)

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SENSREC PHASE III will Support Further Training, Ratification and Governance of Waste Treatment, Storage and Disposal Facility Construction (TSDF)
Training of Admin and Yards

Baseline studies (data)

Draft legislations and policies

Accession to HKC

Roadmap for Yards

Ship Recycling Board / Act

Training of Admin and Yards

SENSREC JOURNEY
SENSREC INDUCED TRANSFORMATION

From here…

To here.
TC: The Continuum of Capacity Building

Partnership Projects
(Climate Change Related)

Partnership Projects
(Oceans Related)

Projects in pipeline
Projects In Pipeline

BLUE SOLUTIONS – ASIA (15 Million Euro)
Donor: Germany

Integrated Approach for GHG Reduction: ships, ports and hinterland!
Projects In Pipeline

Donor: EU
10 million Euro
2023-2027
And the good news is!....

Euro 10 million Pledge by EU to GMN Phase 2
Projects in Pipeline

Phase 2

Norway + Others

- Energy Transition
- Tech. Demonstrations
- Gap Funding
- NAPs

Supporting shipping’s transition towards a low carbon future
Projects In Pipeline

GloNoise Partnership

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<th>GEOGRAPHIC FOCUS</th>
<th>Global</th>
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<tbody>
<tr>
<td>TOTAL BUDGET</td>
<td>2 Million USD (+ co-financing in-kind)</td>
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<tr>
<td>DONOR</td>
<td>The Global Environment Facility (GEF)</td>
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<td>IMPLEMENTING PARTNERS</td>
<td>UNDP</td>
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<td>PROJECT DURATION</td>
<td>24 Months (mid-2023 – mid-2025)</td>
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<td>Preparatory phase started in August 2022</td>
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<tr>
<td>WEBSITE/CONTACT</td>
<td><a href="http://www.imo.org">www.imo.org</a></td>
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<td><a href="mailto:SReyense@imo.org">SReyense@imo.org</a></td>
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Reducing underwater noise to protect marine life
Projects In Pipeline

Discussion with a Donor in Progress

Funding: Aprx $ 5.6 million

Duration: 2023-2027

Reducing sea-based marine plastic litter

ASIA
Outline

TC: The Continuum of Capacity Building

Partnership Projects (Climate Change Related)

Partnership Projects (Oceans Related)

Knowledge Partnerships and emerging project concepts
IMO Technical & Project Management support

Ownership & Commitment of MS

Donor Funding & Partnerships

Long-term Projects
Knowledge Partnership Mechanism and Workshops

NKPOs

ODA agencies
- Donors
- Recipients
# Knowledge Partnership events 2023

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<tr>
<th>Category</th>
<th>Event</th>
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<tbody>
<tr>
<td>Knowledge Partnerships Workshops (KPW)</td>
<td>Pacific</td>
<td>27-31 March</td>
<td>The Pacific Community (SPC), Suva, Fiji</td>
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<td>West &amp; Central Africa (Anglophone)</td>
<td>TBC Q1</td>
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<td>Latin America</td>
<td>TBC Q2</td>
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<td>Knowledge Partnership Side events (KPSE)</td>
<td>Singapore Maritime Week</td>
<td>24-28 April</td>
<td>Singapore</td>
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<td>Nor-shipping</td>
<td>6-9 June</td>
<td>Oslo, Norway</td>
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<td>Korea Maritime Week</td>
<td>14-16 June</td>
<td>Seoul, Republic of Korea</td>
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IMO Multi-Donor Voluntary Trust Funds related to Environment Protection

- IMO R&D MDVTF (*R&D and Innovation Promotion*)
- IMO GHG TC MDVTF (*General Technical Cooperation*)
- IMO SIDS/LDC MDVTF (*participation of developing countries in particular SIDS/LDCs in IMO Meetings*)
Summary

- Long-term Projects: Key in the TC Continuum
- More focus on technology/infrastructure capacity
- Projects are outcome based and performance driven
- Significant experience built in managing and governing large funds
- Pipeline projects: Significant opportunities to participate and partner
- Partnerships are key including private sector
Partnerships and Projects: Information and Updates
Partnerships for Planet and People

Please join us in this voyage together

Partnerships@imo.org
THANKS TO
ALL OUR LONG-TERM GREEN PROJECT DONORS & PARTNERS

<table>
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<tr>
<th>Project</th>
<th>Donor(s)</th>
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<tr>
<td>NextGEN / NextGEN Connect</td>
<td>Singapore</td>
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<td>IMO CARES (Prep)</td>
<td>Kingdom of Saudi Arabia (KSA)</td>
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<td>Maritime Innovation Forum</td>
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