The GMN Project
ESSF, Brussels, 23 January 2019

The Global MTCC Network (GMN) project is funded by the European Union and implemented by IMO. The views expressed in this presentation can in no way be taken to reflect the views of the European Union.
IMO’s work to address GHG emissions from ships
Adoption of the Initial IMO Strategy on Reduction of GHG emissions from ships

RESOLUTION MEPC.304(72)
Adopted on 13 April 2018

INITIAL IMO STRATEGY ON REDUCTION OF GHG EMISSIONS FROM SHIPS

THE MARINE ENVIRONMENT PROTECTION COMMITTEE

RECALLING Article 38(e) of the Convention on the International Maritime Organization (the Organization) concerning the functions of the Marine Environment Protection Committee (the Committee) conferred upon it by international conventions for the prevention and control of marine pollution from ships,

ACKNOWLEDGING that work to address greenhouse gas (GHG) emissions from ships has been undertaken by the Organization continuously since 1997, in particular, through adopting global mandatory technical and operational energy efficiency measures for ships under
Adoption of the Initial IMO Strategy on Reduction of GHG emissions from ships

The shipping sector is finally on board in the fight against climate change.

U.N. shipping agency reaches deal to cut CO₂ emissions.

Shipping regulators reach deal to cut carbon emissions for the first time, maritime shipping has a climate target.

The shipping industry is finally going to cut its climate change emissions. That's a big deal.

Carbon dioxide from ships at sea to be regulated for first time.

Carbon emissions from global shipping to be halved by 2050, says IMO.

Nations strike historic deal to curb shipping emissions.
Programme of follow-up actions of the Initial Strategy up to 2023

• October 2018 the Marine Environment Protection Committee (MEPC 73) gathered in London and approved the Programme of follow-up actions of the Initial IMO Strategy on reduction of GHG emissions from ships up to 2023

• This programme of actions identifies several parallel streams of activity:

  • Consideration of **concrete proposals for new measures** by MEPC 74 (May 2019)

  • Mechanism to assess **impacts on States** of measures

  • Fourth IMO GHG Study to update estimates and projections

  • Capacity-building, technical cooperation, R&D
Example of candidate short-term measure: ports

- the **Initial IMO Strategy** identifies as a candidate short-term measure:

  consider and analyse measures to encourage port developments and activities globally to facilitate reduction of GHG emissions from shipping, including provision of ship and shoreside/onshore power supply from renewable sources, infrastructure to support supply of alternative low-carbon and zero-carbon fuels, and to further optimize the logistic chain and its planning, including ports;
Why are ports so important to the climate mitigation strategy?

Ships spend time waiting at anchorage

- In-kind contribution of data and analysis by MarineTraffic
- Data timeframe: 1/7/2017 – 15/7/2018
- Waiting time at anchorage for all ships > 999 GT

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Challenges to port developments?

Identification of barriers

Port call process
The IMO – EU Global MTCC Network Project (GMN)
AN ESTABLISHED GLOBAL NETWORK TO SUPPORT IMO's INITIAL GHG STRATEGY THROUGH CAPACITY BUILDING AND TECHNOLOGY TRANSFER IN DEVELOPING REGIONS
What has been achieved so far?
Capacity building

- more than 1000 participants from more than 80 countries
- 6 regional
- 6 sub-regional
- 14 national workshops
Pilot Projects

MTCC PACIFIC
Maritime Technology Cooperation Centre

MTCC AFRICA
Maritime Technology Cooperation Centre

MTCC ASIA
Maritime Technology Cooperation Centre

MTCC CARIBBEAN
Maritime Technology Cooperation Centre

MTCC LATIN AMERICA
Maritime Technology Cooperation Centre
Technology transfer

• Global exhibition series

- Ship speed reduction
- Solar power
- Wind power
- Diesel-electric propulsion
- Air lubrication
Future development

Green / Smart ports

Port: Just in Time Services (Digital Infrastructure)

Port: Shore Based Power Supply

Port: Energy Efficient Equipment and Operations
GHG reductions

Energy efficiency & GHG emissions

Ship Fuel consumption: US$ 100 to 150 Billion / year
Further information

• GMN project website: http://gmn.imo.org/

http://www.mtccasia.org
http://mtccafrique.jkuat.ac.ke
https://utt.edu.tt/index.php?wk=68
https://mtcclatinamerica.com
http://mtccpacific.spc.int
The GloMEEP and IMO...

Global Industry Alliance

Current membership of 16 companies:

Abb
DNV-GL
Lloyd's Register
MSC
Bureau Veritas
Grimaldi Group
MarineTraffic
Port of Rotterdam
Royal Caribbean Cruises Ltd.
Silverstream Technologies
Stena
Warnsilä
Ricardo
Shell
Total
WinGD

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