

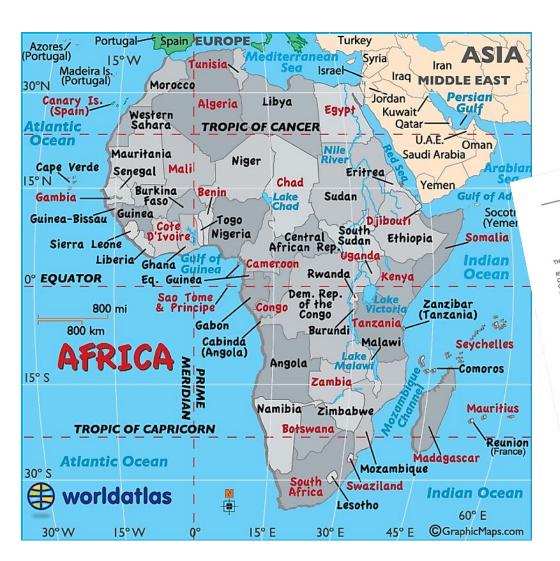


"ENERGY EFFICIENCY IN LINE WITH REGULATIONS SUPPORTING DECARBONIZATION" BY LYDIA NGUGI, MTCC AFRICA

Building Capacity for Climate Change Mitigation in the Shipping and Maritime Industry.



ENERGY EFFICIENCY IN SHIPPING: FOCUS ON AFRICA







ENERGY EFFICIENCY IN SHIPPING INLINE WITH REGULATIONS SUPPORTING DECARBONIZATION.

- The Initial IMO GHG Strategy (short term, Midterm and Long term candidate measures) some under revision supports the implementation of the MARPOL Annex VI Clauses, on the backdrop that the mandate of the International Maritime Organization (IMO), as a United Nations specialized agency, is to promote:
- safe,
- secure,
- environmentally sound,
- Efficient and sustainable shipping.
- HOW DOES MTCC AFRICA SUPPORT THIS?



ENERGY EFFICIENCY/REGULATIONS/DECARBONIZATION/MTCC AFRICA: THE 3 MAIN PILLARS

Capacity Building through Technology

- Pilot Project Progress implementation with a focus on port development
- Leverage on bankable projects
- Long term benefits to integrate with the private shipping industry

Policies/Regulations

- Implementation of the IMO GHG Strategy
- Domestication of Marpol Annex VI
- Public Policy in the region to leverage on IFI policies

Finance

- On bankable projects
- Demand driven not supply driven
- Positive returns on investment.
- Zero-low emissions i.e alternative fuel, port infrastructure.
- Sustainability models.



CAPACITY BUILDING TO SUPPORT: ENERGY EFFICIENCY IN LINE WITH REGULATIONS SUPPORTING DECARBONIZATION













LEAVING NO ONE BEHIND IN THE ENERGY TRANSITION THROUGH PILOT PROJECTS

Uptake of ship energy efficient
technologies and operations

Fuel Consumption and Emissions Data Collection and Reporting

Quantification of Emissions within the Port of Mombasa Limits

Promote of the uptake of energyefficient technologies and operations through information dissemination platforms Quantify the impact of greenhouse gases from the shipping industry in selected ports and waterways

Undertake emission inventory assessment within the port of Mombasa

Identify and report impacts of the implemented energy-saving/emission reduction strategies at the selected Port

Collect and process data-sets to calculate the Energy Efficiency Operation Index (EEOI) of participating ships

Provide a comprehensive ship's emission inventory

Conduct Energy Audits in selected ports

The information compiled and reported to IMO can further be used for subsequent decision and policy making

Provide information to decisionmakers on the levels of emission from ships within the port for development and tracking of emissions reduction strategies



61

Engagements With Regional Focal Point States



Demonstrating Energy Efficient Port Measures

SDG 5 7 Virtual Forums

The Centre has provided technical expertise & assited WOMESA in organising & hosting virtual forums in an effort to support SDG 5

1 MOU signed with a Regional Womens Association



10 Regional Virtual Forums

74 Participating Countries from 5 Continents

33 African Participating Countries





+815 Virtual Webinar Participants

Capacity Building & Information Dissemination Forums



Youth Empowerment

11 individuals Trained
During Phase 1 of of the 3rd
MTCC Africa Pilot Study



+8000 Data Sets Collected

Phase 1 of Pilot Project 3
*November-December 2021



10 Stakeholder Engagements











WHAT NEXT FOR SOME INTERPOLATION OF A Maritime Technology Cooperation Centre

- Need for more pilots to demonstrate energy efficiency technologies linked to regulations supporting decarbonization.
- Develop gap funding that can support developing countries to implement demonstration pilot projects.
- •Important to underwrite the risk or to leverage the gap between available technology and green technology to encourage early adaptation.
- Region specific capacity building initiatives: MTCC Africa



MTCC AFRICA AND STAKEHOLDER SUPPORT













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http://mtccafrica.jkuat.ac.ke/



mtccafrica@jkuat.ac.ke

"Greening Port Technologies"





