Uptake of ship energy efficiency technologies and practices

Strengthen the adoption of Ship EE technologies & operations

• Gain a better understanding of the challenges, barriers and opportunities experienced by relevant actors and making recommendations to policy makers and administrations on actions to overcome these problems

Aspects to analyse include

• EE national policy and regulation
• Operational aspects
• Technology availability
• Financial implications, others
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Participants

• At least 3 countries including MARADs, ship operators, environmental entities, technology providers, maritime service providers, training centers, national experts

Panama
Honduras
Peru
Colombia
Ecuador
Mexico

MARPOL Annex VI adopted
MARPOL Annex VI in process of adoption
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Panama
Panama Maritime Authority PMA
Ministry of Environment
National Energy Secretary
...
...

Honduras
Merchant Marine General Directorate
Ministry of Environment
Local authorities
Shipping agencies
Private ports / Fuel providers
Maritime Training Centers

Peru
Maritime Authority, DICAPI
Ministry of Foreign Affairs
Ministry of Energy
Shipowners / Ship operators
Shipowners Association
Universities/Maritime Training Centers

Colombia
Dirección General Maritima DIMAR
COTECMAR Shipyards
...
...

Ecuador
Dirección Nacional de los Espacios Acuáticos DIRNEA
...
...

Mexico
Unidad de Capitanías de Puerto y Asuntos Marítimos UNICAPAM
...
...

MTCC LATIN AMERICA
Maritime Technology Cooperation Centre

[Logos and funding information]

Translated from Spanish to English:
- Colombia: Dirección General Maritima DIMAR, COTECMAR Shipyards
- Ecuador: Dirección Nacional de los Espacios Acuáticos DIRNEA
- Mexico: Unidad de Capitanías de Puerto y Asuntos Marítimos UNICAPAM
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Data Collection
Qualitative & quantitative questionnaires applied

38

(Expected by study design 40)
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### Challenges faced

- Elections and change of governments
- Multi-agency responsibility (right interviewees)
- Connection EE – GHG Emission not clearly perceived by interviewees
- Modest EE & GHG emission reduction policy, legislation & awareness
- Technology availability

### Future challenges expected

- .... same challenges
- Focus shifting to financial implications of entry into force of 0.5 % Sulphur cap of marine fuels, as well as availability of this FO in local markets

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Dirección General de Marina Mercante of HONDURAS

Dirección General de Capitanías y Guardacostas (DICAPI) of PERU

PANAMA Maritime Authority (PMA)
Unidad de Capitanías de Puerto y Asuntos Marítimos (UNICAPAM) of MEXICO

Dirección Nacional de los Espacios Acuáticos (DIRNEA) of ECUADOR

Dirección General de Marítima (DIMAR) of COLOMBIA
Questions?
Thank you!

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