

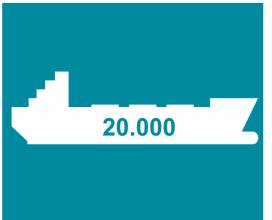


Outline

- BKI Scope of work
- BKI Performance
- Marine Environmental Protection in SOMS (BKI Perspective)

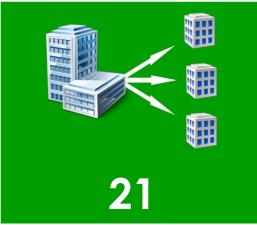


BKI Scope of Work









Our Services





BKI Performance

PSC RO Performance



ACS Membership



BKI Projects: Rnd & Offshore Activities

R&D





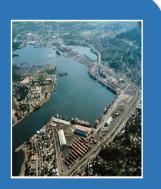
IACS Application

IACS

INTERNATIONAL ASSOCIATION OF CLASSIFICATION SOCIETIES LTD.



Ports & Harbors





Emissions





Marine Biodiversity

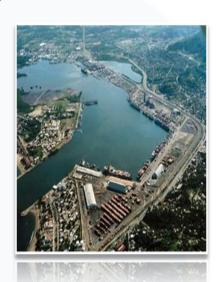




Data & Facts

- SOMS has 24 ports and harbors in 3 countries (world port source)
 - 16 ports and harbors in Indonesia
 - 7 ports and harbors in Malaysia
 - 1 port in Singapore





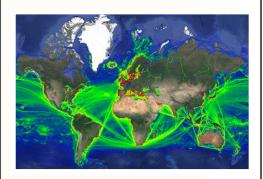
Ports & Harbors



Typical Ships

- Container Vessel
- Tanker Vessel
- Cargo Vessel
- Bulk Carrier
- VLCC
- LPG/ LNG Carrier





Ships In SoMS

Source: IALA



Highlights (1)



Goals

Challenges

Solutior

"Protection of Marine Biodiversity in SoMS"



Highlights (1)

Marine Biodiversity

Goals

 EIF BWM Convention 08 September 2017

Challenges

Not All countries, Parties to BWM Convention

Solution

 B/W Exchange possibilities in SoMS



Highlights (1)

Marine Biodiversity

Goals

Challenges

Solution

Proposed Solutions:

Short Term
 "Study on Marine Biodiversity at Ports"

Long Term

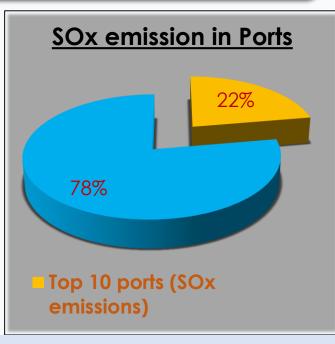
"Joint Risk Assessment of Marine Biodiversity and its Impact to coastal states"

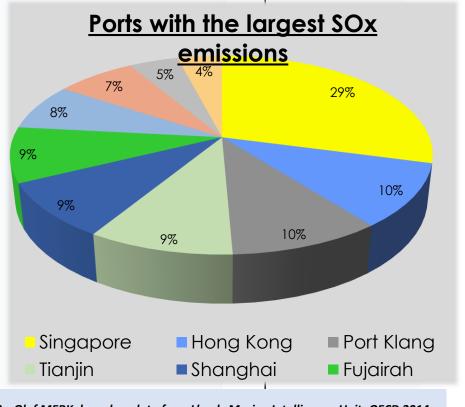


Highlights (2)

Emissions







Shipping Emissions in Ports Olaf MERK, based on data from Lloyds Marine Intelligence Unit, OECD 2014



Highlights (2)

Emissions

Goals

Challenges

Solution

"Cleaner SOMS Through Reduction of Emissions"



Highlights (2)

Emissions

Goals

Challenges

Solution

Availability of low Sulphur fuel

"Average Sulphur Content Of Residual Fuel For 2015 = 2.45% m/m"

Lower Emission Fuel

"LNG Fuel Infrastructure Availability"

Bunker Fuel & Bunker Suppliers Standard



Highlights (2)

Emissions

Goals

Challenges

Solution

Proposed Solutions:

- Study the demand and availability of Low Sulphur fuel and LNG fuel in SOMS
- Study the demand of LNG infrastructure in SOMS
- Develop Bunker Fuel & Bunker suppliers standard in SOMS



BKI Current Projects

Amendments
MARPOL Annex VI



Data Collection
Systems

Green Padma - DCS1.0 Version

Provide a standarized data reporting format for IMO-DCS Provide SEEMP Monitoring tools as well as its EEOI







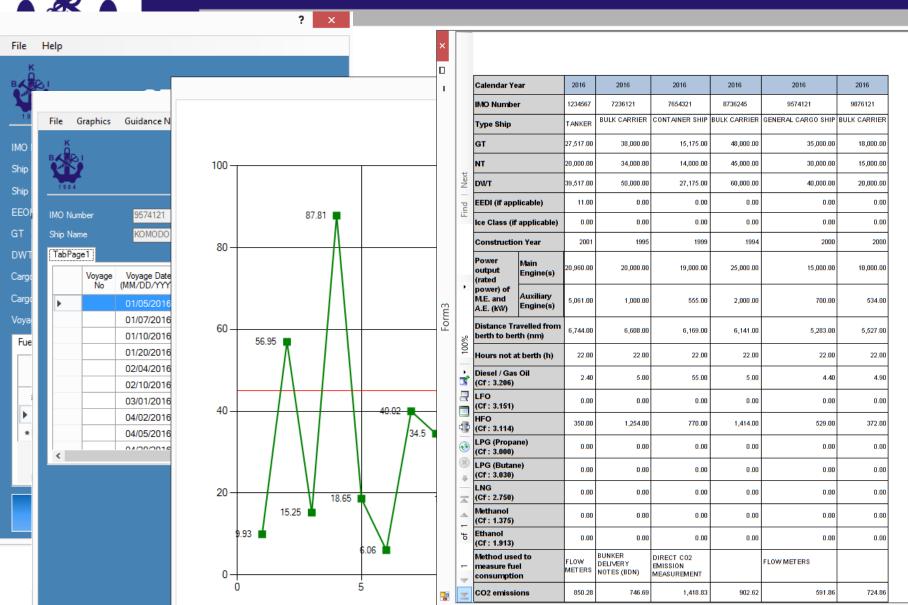








BKI Green Padma-DCS





Conclusion

Challenges to protect marine environment in SOMS can be tackled through conducting scientific study and develop common standards

BKI, as part of industry, is eager to collaborate with other interested parties to respond the dynamic of regulation, including in marine environmental issue such as BWM and Shipping Emission in SOMS



THANK YOU



bki1964



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