

MEDports

ASSOCIATION

Sustainability Committee

President 'sReport. June 2019



Aim of the
sustainability
committee



Aim of the SC

This committee aims at studying environmental, economic, social topics for the maritime and port sector and finding solutions to reduce the carbon footprint, improving relationships with cities and people's mobility.



Environmental
topics
identified by
the
Sustainability
Committee



Environmental topics identified by SC

1. Air quality
2. Biodiversity protection
3. Carbon footprint calculation (Port activities impact on climate change)
4. Mobility
5. Alternative fuels / Renewable energy
6. Noise
7. Dredging and diffused pollution around port areas
8. MARPOL and waste generated in ports
9. Coastal erosion
10. Port-city relationship

Committee's Roadmap

1. Define a common methodology to measure the carbon footprint
2. To exchange experiences and knowledge between MEDPorts and ports from other regions (out of the Med)
3. Put the focus on the Onshore Power Supply and try to get solutions for the implementation according to the different needs



Priority actions

Priority actions

1. To gather the port sustainability reports of port members.
2. To define a common methodology to measure the carbon footprint.
3. To exchange experiences and knowledge between MEDPorts and ports from other regions (out of the Med).
4. To produce common rules, applicable to shipowners, aimed at reducing noise and emissions.
5. To focus on the on-shore supply.

Sustainable
Committee
actions 2018-
2019



Sustainability Committee actions 2018-2019

- It was agreed that a questionnaire containing all the previously mentioned topics should be issued and distributed among ALL MEDPorts members in order to have a clear scope on the Action Plan to be executed by the Committee.



Questionnaire results

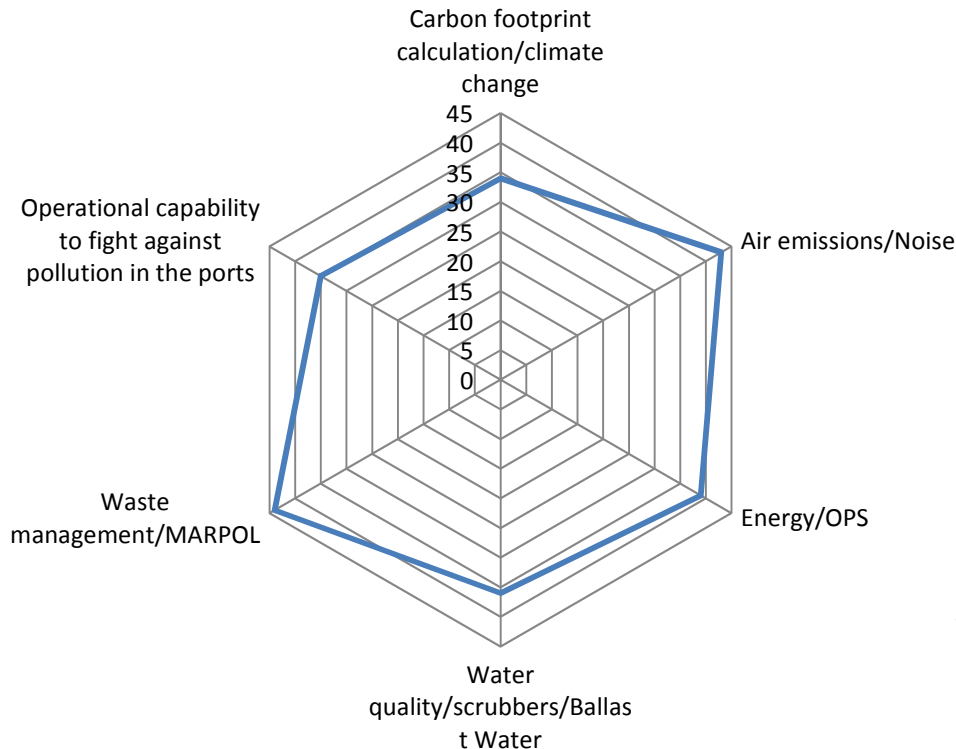
Questionnaire results. Introduction.

- 22 questions were addressed to all Medports Members in order to set the priorities for further research.
- The questionnaire contained several questions related to:
 - OPS
 - Air quality / Noise
 - Carbon footprint calculation
 - Energy alternative sources
 - Energy and environmental management systems
 - Waste management

Questionnaire results.

- Waste management / MARPOL and air emissions / noise were chosen as the most challenging topics for further development and research.

Main environmental challenges



— Main environmental challenges

Questionnaire results. WASTE MANAGEMENT / MARPOL



Questionnaire results. WASTE MANAGEMENT / MARPOL

- **Best practices reported**
 - Elaboration of waste management plans for ports
 - Green charging program for good performance
 - Elaboration of waste recovery plans for port implementation
 - Provide waste facilities for segregation and further management in port
 - Provide MARPOL reception facilities in port

Questionnaire results. NOISE / AIR EMISSIONS



Questionnaire results. NOISE / AIR EMISSIONS

- **Best practices reported**
 - Speed limits for ships approaching the port
 - Shutdown ship's engines during night period
 - OPS implementation
 - Enhance the use of train as a mean of transport from the quay
 - Better maintenance of port machinery
 - Real-time monitoring of noise and air quality
 - Dust-free fences around the solid bulk handling areas
 - Settlement of action plans for reducing air pollution

Questionnaire results. ENERGY / OPS



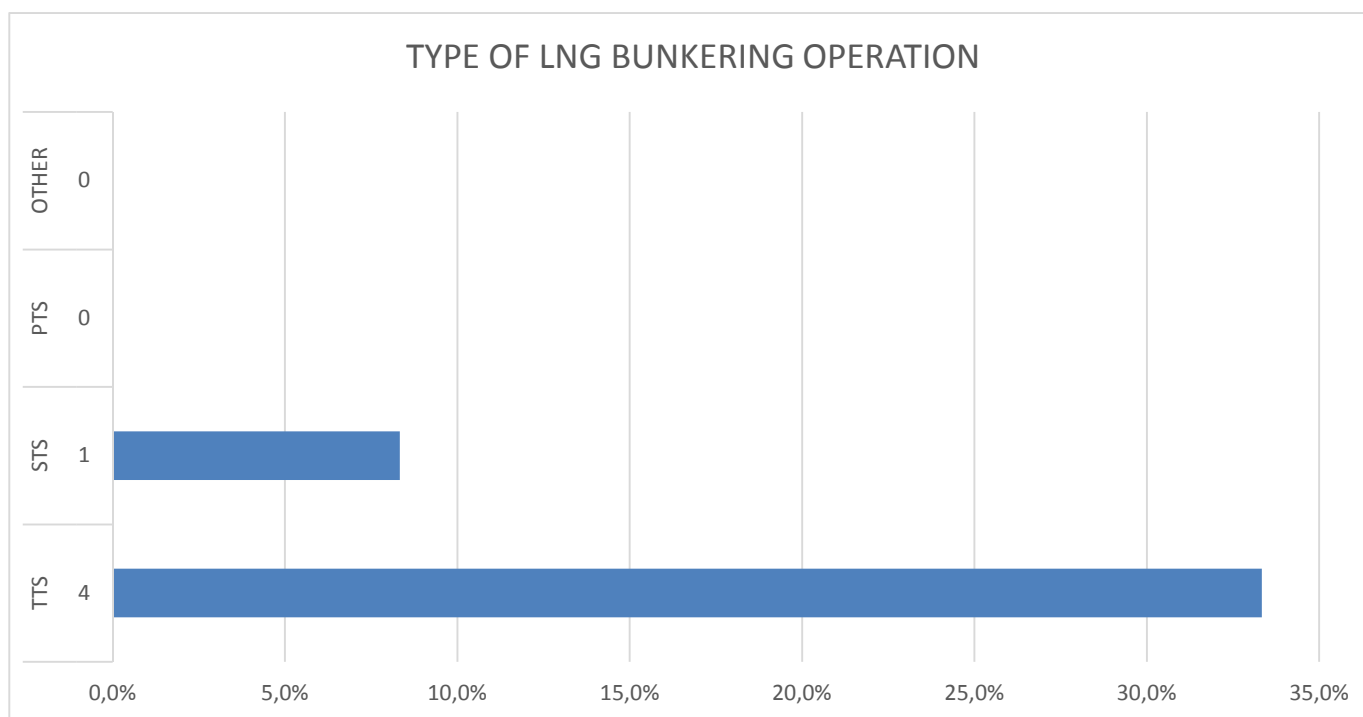
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Questionnaire results. ENERGY / OPS

- **Best practices reported**
 - Provide OPS infrastructure by using LNG generators
 - Optimize energy consumption from port machinery
 - Continuous upgrading of the port machinery
 - Implementation of Renewable energy
 - Implementation of energy management plans
 - Reuse rainwater for energy production

Questionnaire results. ENERGY / OPS

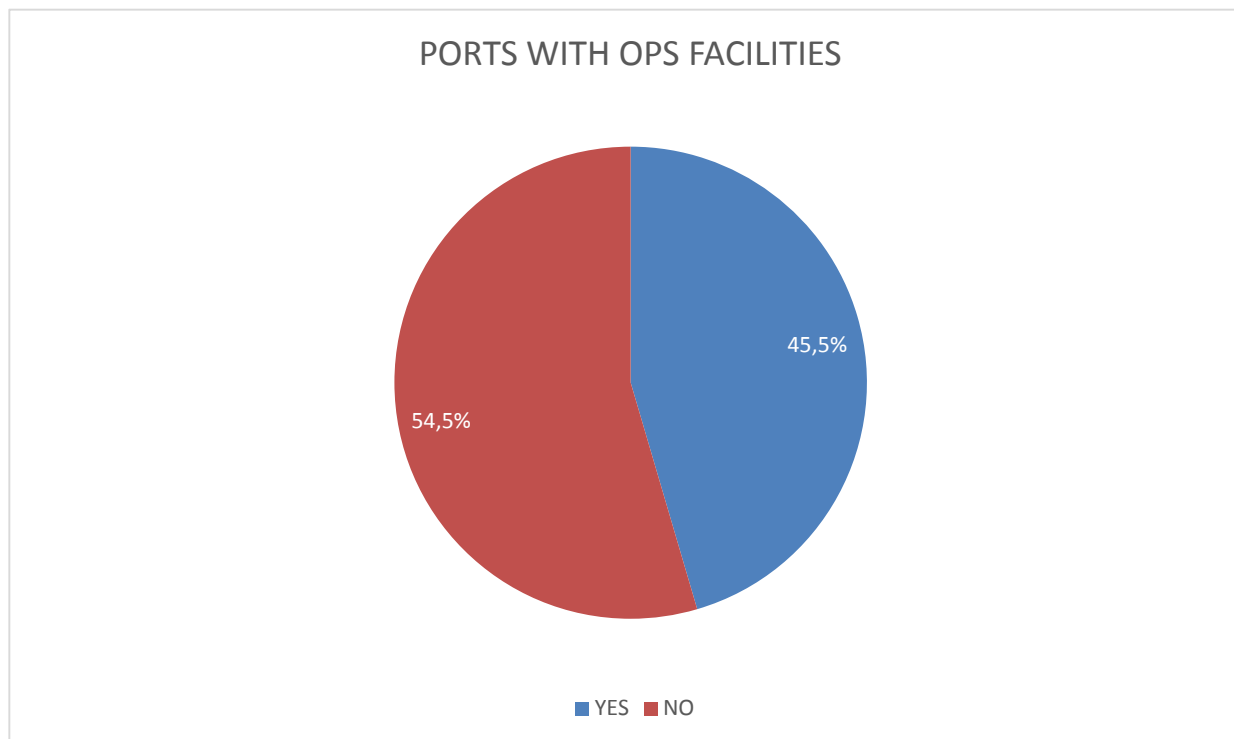
- Only 33% (4 out of 12) of the answers declared to have LNG supply available at the port. Only 1 port has the possibility to supply LNG by barge.



PTS: Pipe to ship
STS: Ship to ship
TTS: Truck to ship

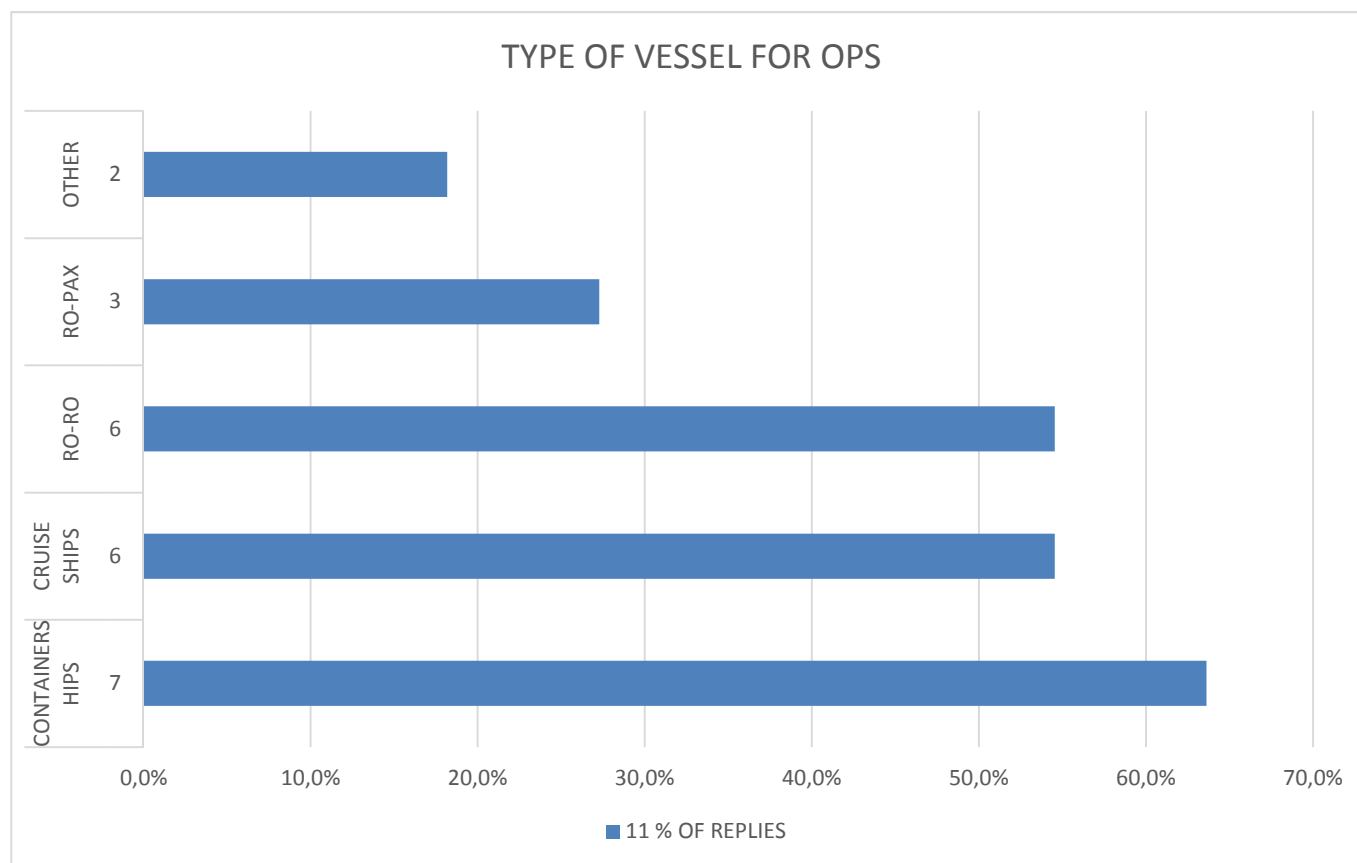
Questionnaire results. ENERGY / OPS

- A bit less than 50% of the participants declared that their ports are fitted with OPS facilities. (Not all for commercial ships)
- The balance are still under assessment studies for its implementation



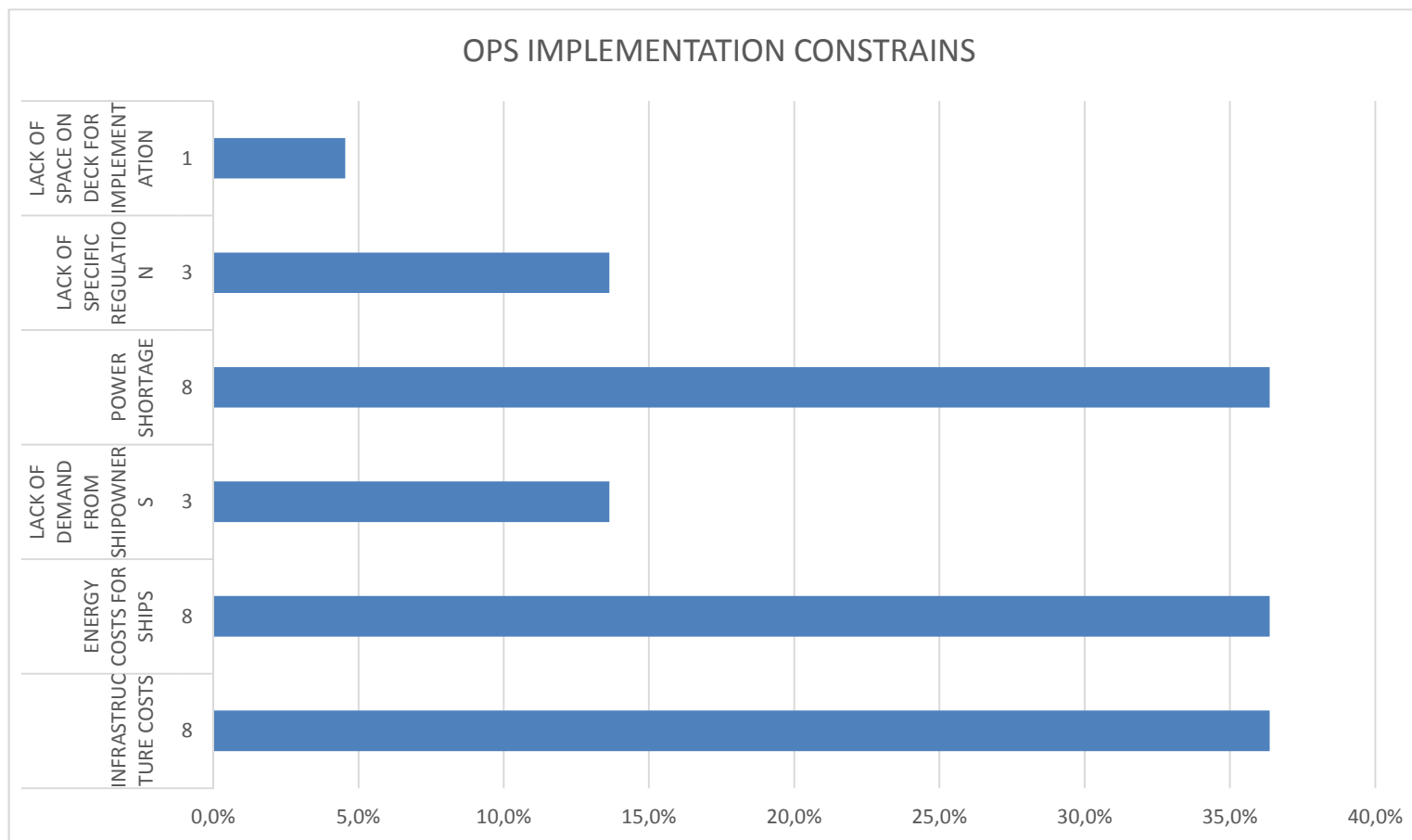
Questionnaire results. ENERGY / OPS

- Most OPS facilities are meant to be for Container, Cruise and Ro-ro vessels. Also other candidates are Ro-pax vessels.
- However, Cruises are not yet connected to the grid in any port.



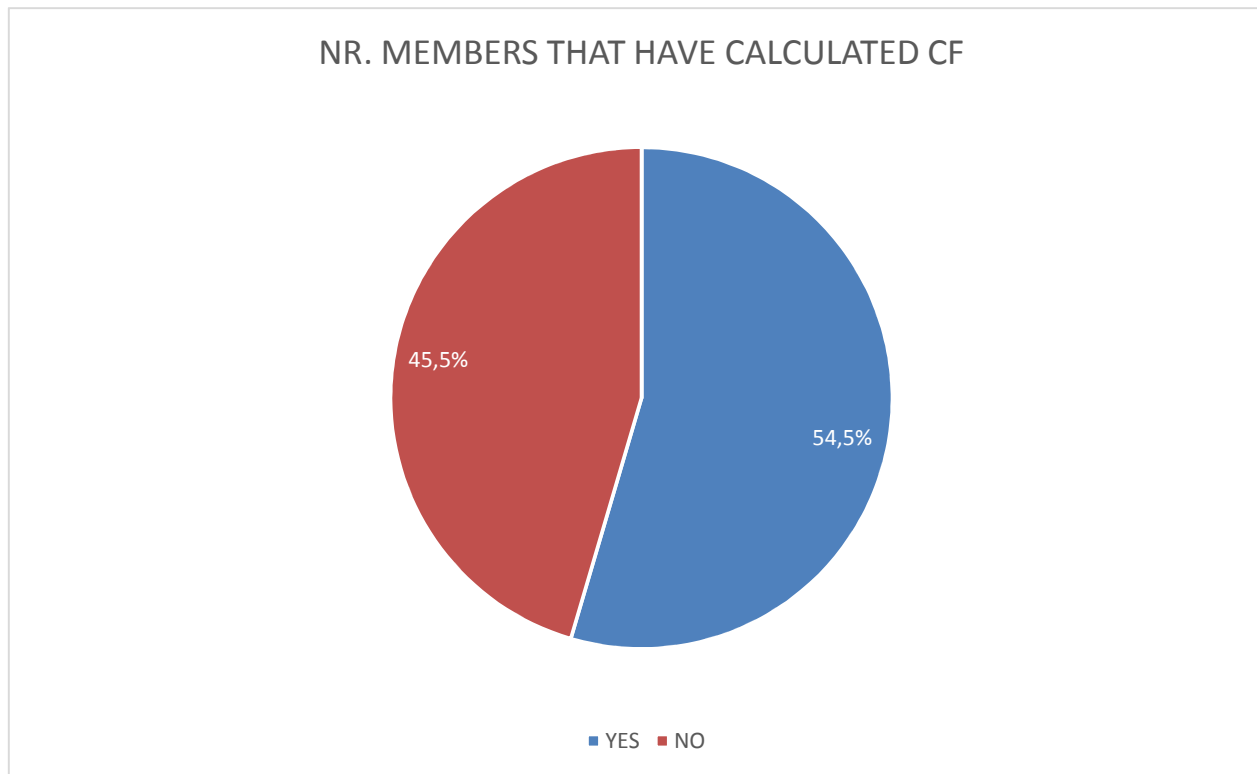
Questionnaire results. ENERGY / OPS

- Main constrains for non implementing OPS in MEDPorts:



Questionnaire results. Carbon footprint

- More than 50% of the participants have declared that they have already calculated their Carbon Footprint to some extent.



Conclusions and next steps

Conclusions

- The 3 top topics chosen by the MEDPOrts members are:
 1. Waste management
 2. Air emissions / noise
 3. Energy / OPS
- These topics are in line with the SC Roadmap and the ESPO hierarchy of priorities.
- Further work must be done on the above mentioned topics starting next SC meeting.

Next steps

- Detailed research on **waste management**, including circular economy, among the MEDPorts and compilation of best practices.
- Detailed research on best practices for **air quality** improvement (monitoring, forecast, action plans...) for port cities.
- Detailed research on **energy transition** among the MEDPorts and transferability of best practices identified. OPS is still not implemented at ports for several reasons, many of them local.

Questions & Answers

THANK YOU

For your attention



Sustainability Committee

Raúl Cascajo, President

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