



Innovation Fund - *Stakeholder insights*

*DG CLIMA, CLIA, ECSA, ESPO, FEPORT, SEA Europe, Waterborne TP,
Maritime Sector*

Cruise Lines International Association (CLIA), European Community Shipowners Association (ECSA), European Sea Ports Organisation (ESPO), Federation of European Private Port Companies and Terminals (FEPORT), Shipboard and Maritime Equipment Association of Europe (SEA Europe), European Research and Innovation Platform for Waterborne Industries (Waterborne);

01 Feb 2024



Agenda

1000 – 1220 Morning

- Opening and Welcome (Waterborne and ECSA) 10'
- Innovation Fund Introduction (DG CLIMA) 10' Joao Serrano Gomes, DG CLIMA
- IF call 23 features and application procedures (DG CLIMA / CINEA)
 - Main features and Award Criteria (50') Joao Serrano Gomes (DG Clima), Renata Kadric, Claudia Iavorenciuc (CINEA)
 - Deep dive: GHG methodology (20') Jakob Wachsmuth & Jonathan Köhler, Fraunhofer
 - Q&A (10')
- EIB Project development Assistance (EIB) 20'
Dr. Ing. Zoran Stanic, Head of Innovation Fund Unit.
- R&D Funding (DG RTD) 20' Moises Blanco Rios (DG RTD)

Afternoon 1245 - 1530

- Project Submissions 2023/24 (1245 – 1345)
 - CLIA: Princess Cruises on Methanol
 - ECSA: DFDS on ammonia-powered RoRO vessels
 - ECSA: G.Junquera Maritima on ballast free cargo ships
 - SEA Europe: Kongsberg learning journey with EUIF
- Pipeline, Granted, Rejected (1400 – 1445)
 - CLIA: Ponant on the second IF application for Wind power
 - ESPO: Port of Rotterdam on Zero Emission and Port Infrastructure
 - CLIA: Royal Caribbean Cruises on Carbon Capture and Fuel Cells
- Key Challenges (1445 – 1530)
 - Ship: Cruise, Cargo, Passengers & Service (CLIA, ECSA) Shore: Ports & infrastructure (ESPO, FEPORT) Tech: Shipyards & Technology (SEA EUROPE))

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Afternoon Session

Welcome Back from the Break



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Project Submission

Current Call IF23



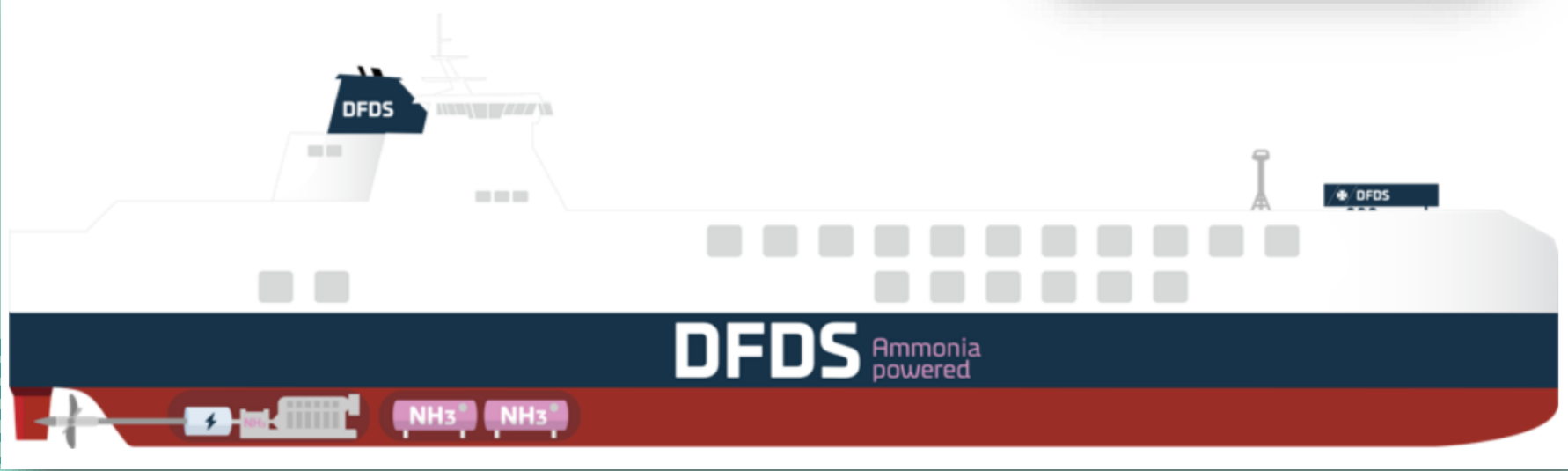


Project 1:
Cruise Vessels
and Methanol





Project 2: DFDS on ammonia powered RoRo vessels





Project 3: G. Junquera Maritima on Ballast-free cargo ships





Project 4: Kongsberg learning journey with EUIF



Pipeline

Current or future





Project 5: Wind Assisted Propulsion



Sustainable - Wind Assisted Propulsion – Zero Emission Ready





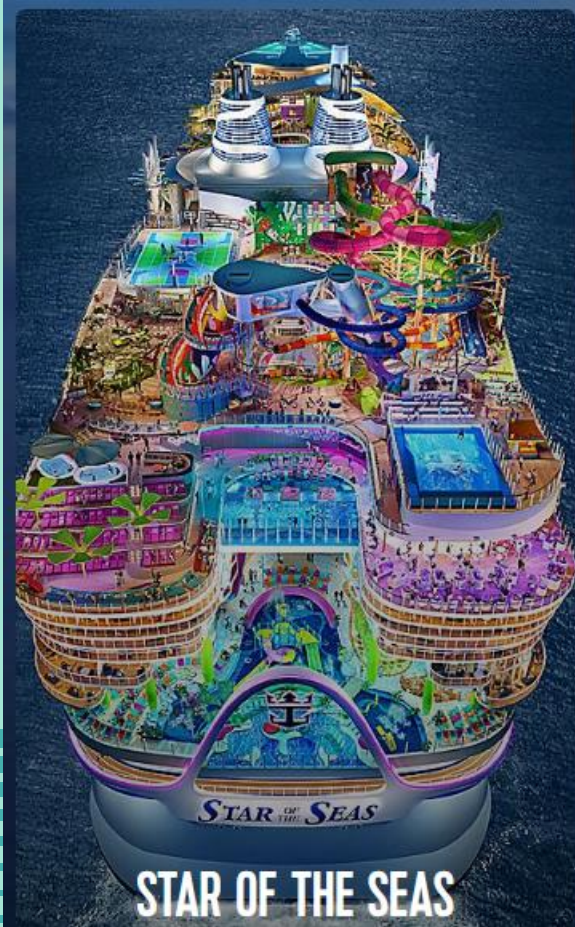
Project 6: Zero Emission and Port Infrastructure



Supported by:



Project 7: Carbon Capture and Fuel Cells



Key Challenges

What holds us back and how can we address these challenges?



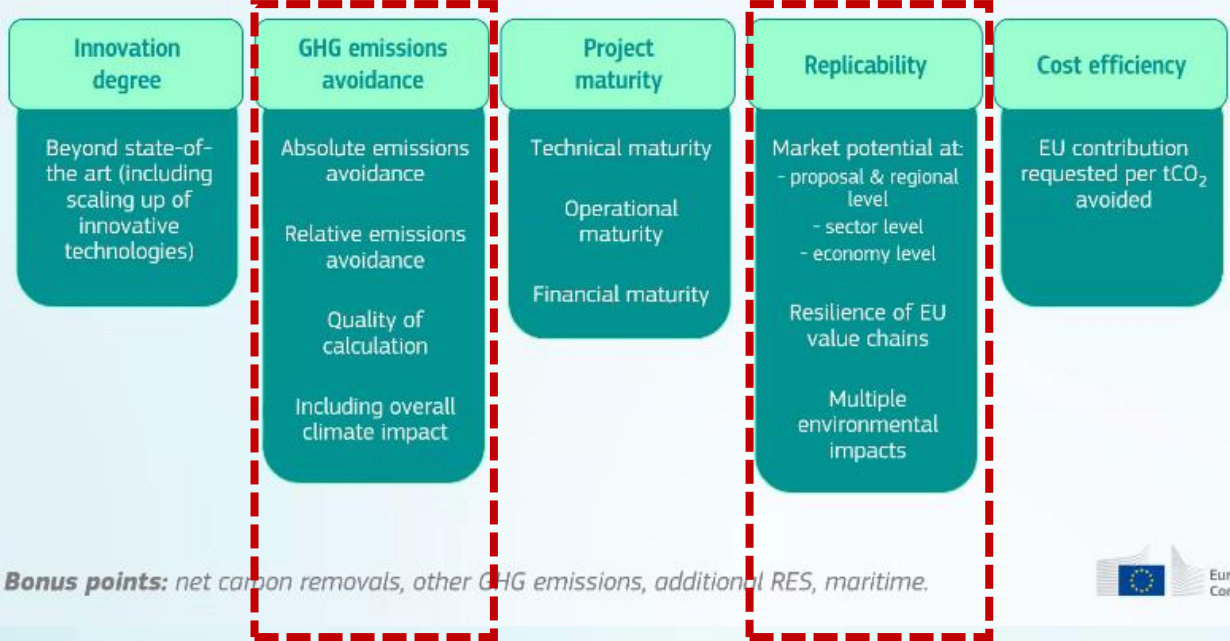


CLIA has commissioned a European study that will link itinerary planning, onboard technology and fuel infrastructure in order to determine the scaling potential (replicability) and GHG emission avoidance of the sector according to the criteria. – A sector solution for Europe!

The study will help to merge several projects on the same technology and apply as a consortium.

- Key Concerns on the current criteria:
- GHG emission Avoidance Criteria
 - Replicability Criteria
 - Cost Efficiency Criteria

IF23 Call award criteria



Bonus points: net carbon removals, other GHG emissions, additional RES, maritime.



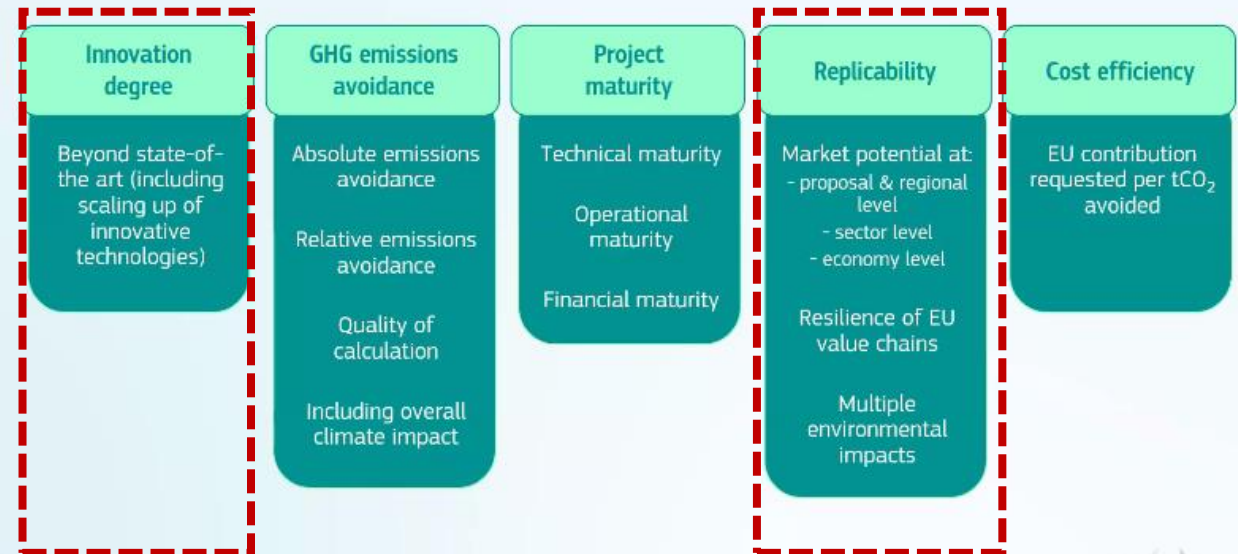
European shipowners' objectives:

- **Bringing down shipping emissions** up to 2030 as soon as possible,
- Investing in innovation and zero emissions vessels.

How to get there?

- Bridging the **immense price gap** between **low- and zero- carbon fuels** and **fuels currently used**, via inter alia carbon contracts for difference.
- Criteria needed to **scale-up availability of low- and zero- carbon fuels at commercial scale**.
- Need of **dedicated calls for the maritime sector** (20 million allowances).
- **Geographical restrictions** on the maritime projects could limit the replicability of the projects.

IF23 Call award criteria



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EU ETS Directive (Article 10): *“The Commission shall give **special attention to projects contributing to the decarbonisation of the maritime sector** and shall include topics dedicated to that purpose in the Innovation Fund calls for proposals, where appropriate, including to **electrify maritime transport**, and to address its full climate impact, including black carbon emissions.”*

Decarbonisation of the maritime sector:

- Overall goal
- Focus Innovation Fund & dedicated maritime calls.

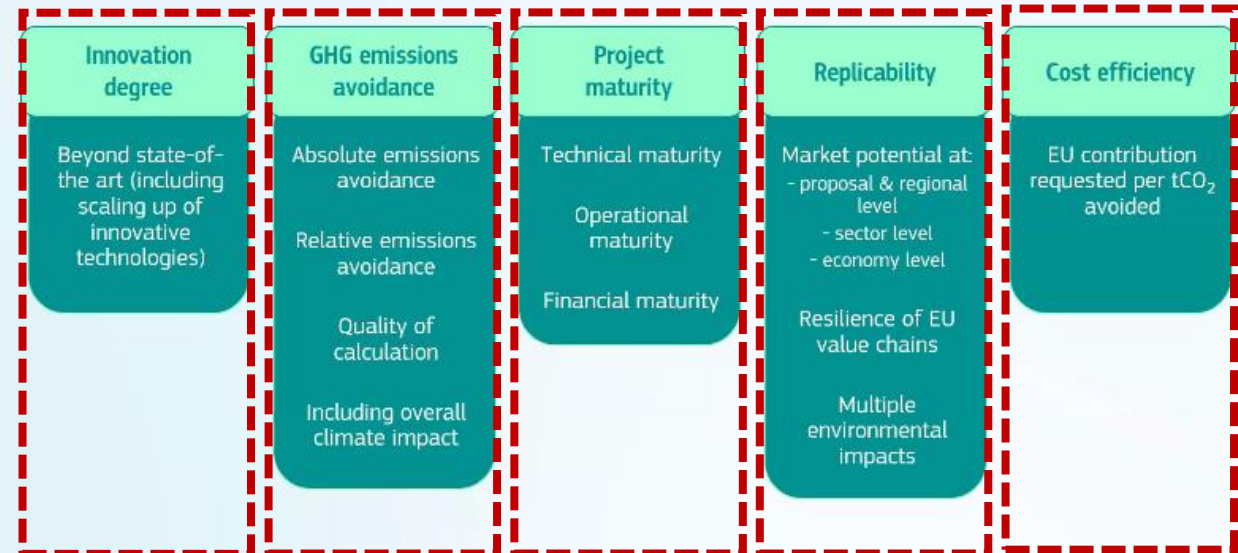
Requires:

- Weighing of criteria targeted to needs of maritime sector.
- Comprehensive maritime supply chain approach – both ship and shore (infrastructure) side.
- Support for projects that are proven highly effective in terms of emission reduction and overall climate impact, and must be improved and/or scaled up even further through further innovation.

Shore: Ports and infrastructure
(ESPO)



IF23 Call award criteria



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According to ETS Directive recital 54, the Innovation Fund should support energy efficiency of ports and the electrification of the maritime sector.

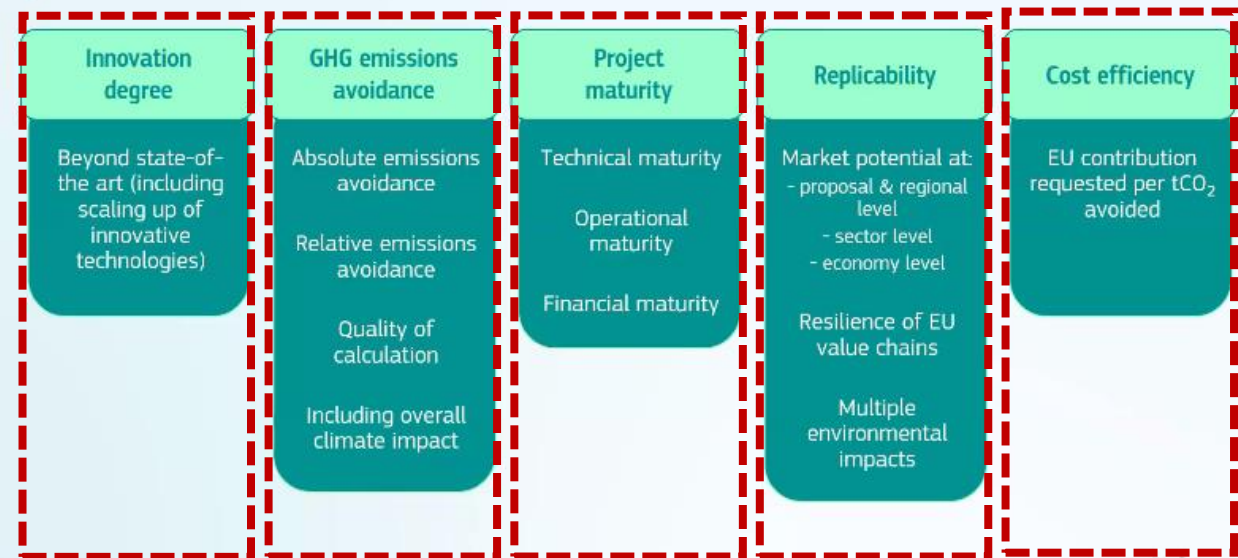
In the terminal industry, solutions to achieve electrification exist: battery-electric container handling equipment (BE-CHE).

Numerous challenges however still stand in the way of large-scale deployment of BE-CHE which relate to affordability, operational challenges, standardisation and the need for infrastructure adaptation which should be addressed in conjunction with the rollout of shore power for ships.

To allow for a large-scale uptake of BE-CHE, terminal operations and design need to be rethought and optimised.

It is important to focus on GHG emission avoidance, cost efficiency and replicability as important award criteria to ensure that the Innovation Fund can leverage adequate support for energy efficiency in ports and the electrification of the maritime sector.

IF23 Call award criteria



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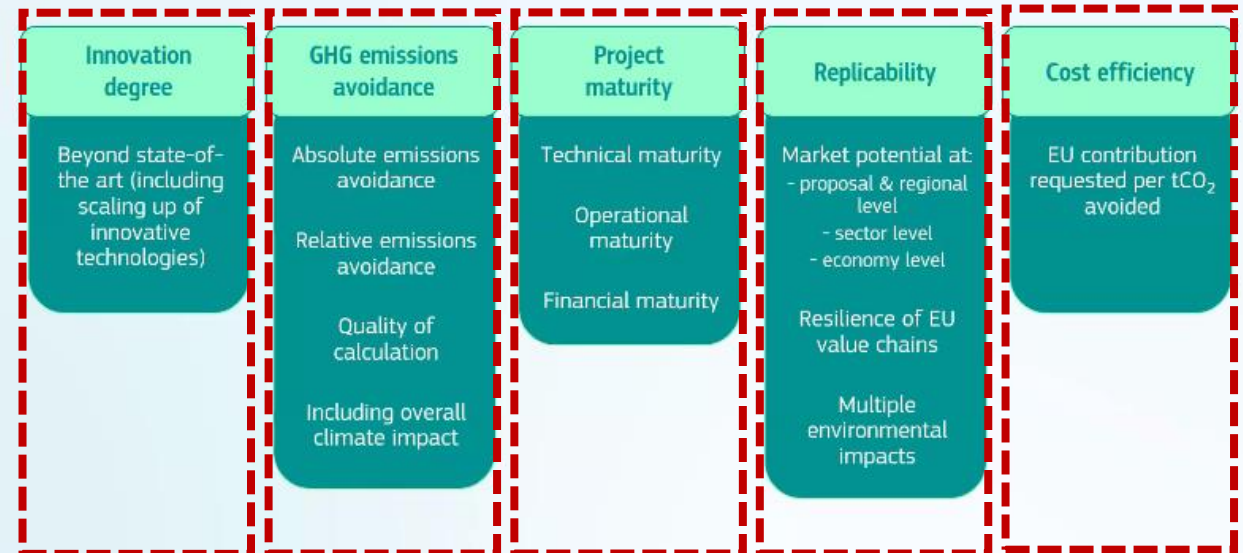
Coherent approach towards
the entire value chain



SEA Europe:

One of the main challenges will be to ensure consistency overtime in the operating profile of the ships, enabling results of projects to be measured and improved in terms of GHG emission avoidance.

IF23 Call award criteria



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WTP is coordinating the private side of the Co-Programmed Partnership on Zero-Emission Waterborne Transport (Horizon Europe) and is currently looking into establishing synergies between ZEWT and Innovation Fund

IF23 Call award criteria

