



Innovation Fund for maritime sector

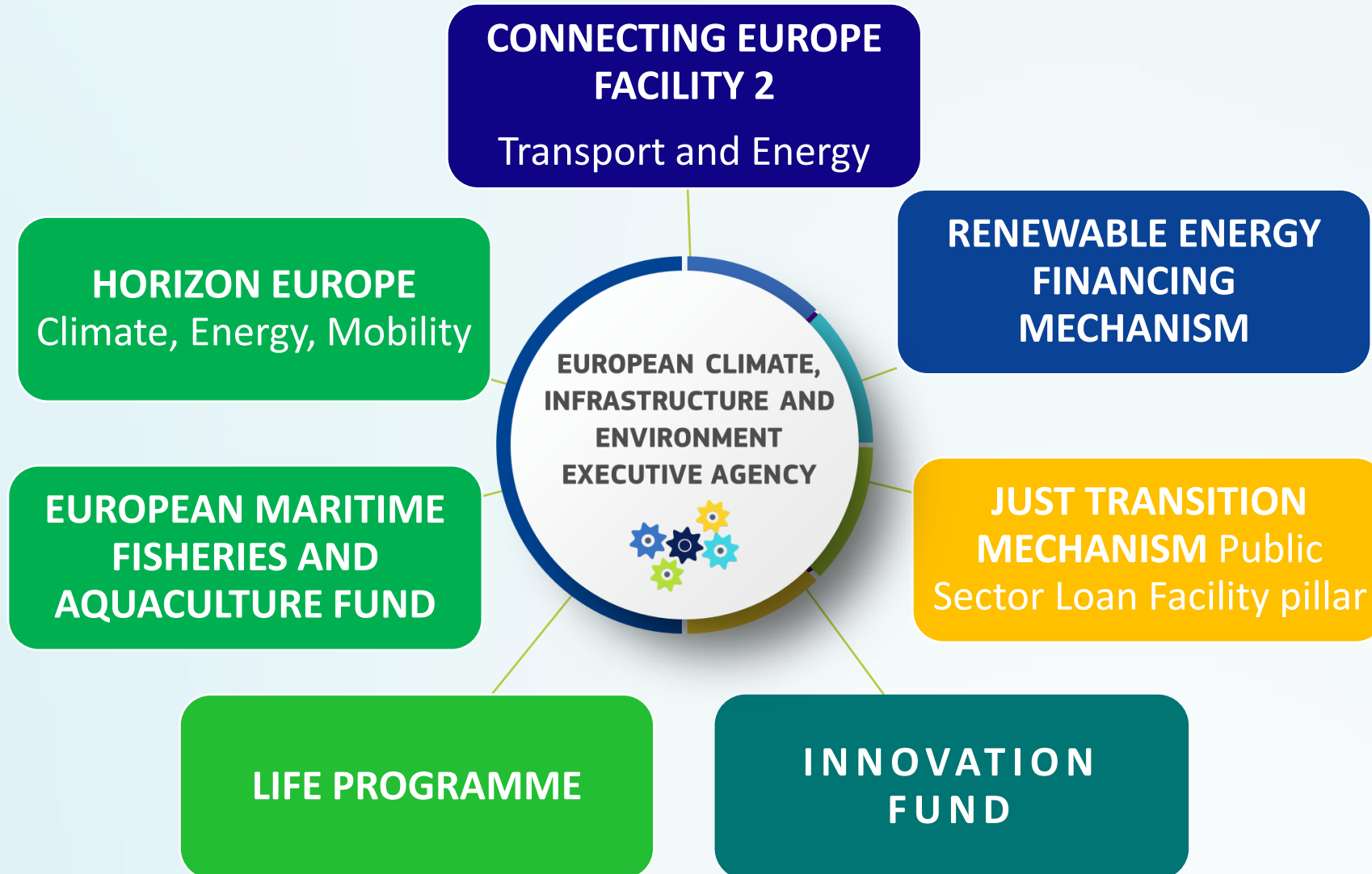
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Alianza Net-Zero Mar, 30/11/2023

Agenda

- CINEA
- Innovation Fund
- Innovation Fund Call 2023
- Innovation Fund Auction 2023
- Join as an expert

CINEA and its Funding Programmes



INNOVATION FUND

Deployment of net-zero and innovative technologies

Funded by: EU Emissions Trading System



Funding through
Grants and Auctions



EUR 40 billion* to invest from 2020-2030
in EU's climate neutral future



Avoid emissions and
boost competitiveness

Supporting manufacturing, production and use in:



Energy intensive
industries



Renewables



Energy storage



Carbon capture,
use and storage



Net-zero mobility
and buildings

*based on a carbon price of 75 EUR/tonne

Innovation Fund Governance

- Policy and priorities definition
- Call design definition
- Selection Decision
- EIB coordination

DG CLIMA



- Evaluation
- Grant Preparation
- Project Implementation
- Program Reporting
- Feedback and policy recommendation to CLIMA

CINEA



- MS reps
- Stakeholders
- Advise EC on programme design and operation
- MS consulted on pre-selected proposals

IFEG



- Technical support to CLIMA
- GHG methodologies and tools

**ICF /
Fraunhofer**



- Allowances monetisation
- Asset management
- Project Development Assistance






















EIB

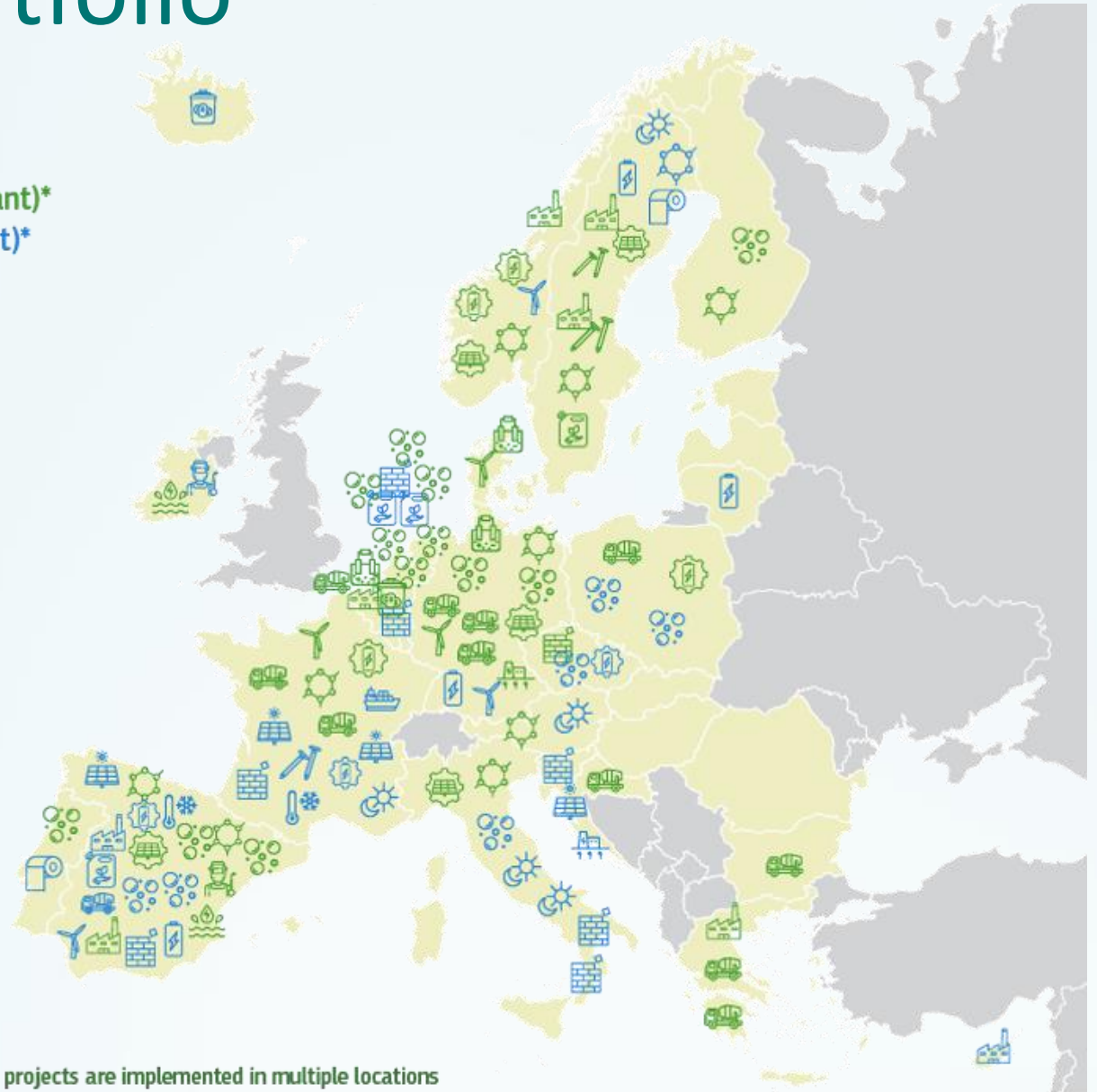


Innovation Fund portfolio

Green: Large-scale projects (62 awarded or pre-selected for grant)*

Blue: Small-scale projects (46 awarded or pre-selected for grant)*

 Biofuels and biorefineries	 Manufacturing of components for energy storage
 Cement and lime	 Manufacturing of components for renewable energy
 Chemicals	 Non-ferrous metals
 CO ₂ transport and storage	 Other energy intensive industries
 Geothermal energy	 Other energy storage
 Glass, ceramics and construction material	 Pulp and paper
 Hydro/Ocean energy	 Refineries
 Hydrogen	 Renewable heating/cooling
 Intra-day electricity storage	 Solar energy
 Iron and steel	 Use of renewable energy outside Annex 1
 Manufacturing of components for energy intensive industries	 Wind energy



*The number of symbols is higher than the number of projects, as some projects are implemented in multiple locations

Evolution of the Innovation Fund



Over EUR 3 bn already provided for low-carbon innovation projects

Innovation Fund Waterborne portfolio

5 small-scale projects awarded so far:

- **GREENMOTRIL** - Development and operation of a GREEN energy community in the **comprehensive maritime port of Montril – construction of a photovoltaic plant** (grant € 4,347,980, location Motril, Spain)
- **FirstBio2Shipping** - First Bio-LNG to Marine Shipping – supply of biogas converted to Bio-LNG - financing innovative iLNG technology for production of Bio-LNG from biogas which will be delivered to the marine industry as 100% drop-in fuel (grant € 4,336,058, location Wilp, Netherlands).
- **HyPush** - **Construction of a fuel cell pusher boat** operating with two hydrogen fuel cells and a lithium battery designed for **inland** river navigation (grant € 3,233,190, location Paris, France)
- **SOL** – **Production of cellulose-to-crude sugar oil (CSO)** to be deployed as a sustainable marine fuel blend component for heavy fuel oil (HFO) (grant € 4,000,000, location Rotterdam, Netherlands)
- **SUSTAIN-SEA** - Reducing maritime transport CO2 emissions using wind energy – **deployment of wind sail technology on 5 vessels that will reduce the fuel consumption** (grant €4,493,534, location Cantabria, Spain)

Innovation Fund 2023 Call

Duration: 23 Nov. 2023 -
9 April 2024

Funding: **€ 4 billion** +
PDA

Grant distribution: **LUMP-SUM
contribution**

- Grant up to 60% of relevant costs
- Up to 40% of grant at financial close
- Remaining amount of at least 60% after financial close
- Generally, at least 10% after Entry into operation

Topics:

Large Scale Projects
Medium Scale Projects
Small Scale Projects
Clean-tech manufacturing
Pilot projects

Sectors:

- Energy Intensive Industries
- Renewables
- Energy Storage
- Carbon capture and storage
- Maritime
- Aviation
- Buildings

Location: EU
Member States and
Iceland,
Liechtenstein and
Norway

[Link to Info Day for recordings](#)

Innovation Fund 2023: Five Topics

Topic	Topic budget
Large-scale projects	EUR 1 700 million
Medium-scale projects	EUR 500 million
Small-scale projects	EUR 200 million
Clean-tech manufacturing	EUR 1 400 million
Pilot projects	EUR 200 million

Admissibility and Eligibility

Admissibility

- Submitted **before** call **deadline**, electronically and using forms in the Submission System
- **Complete** all the application forms and **include mandatory annexes**

Eligibility

- Participants have to be **legal entities**; can be established anywhere in the world
- Projects must be located in the **EEA** (EU Member States and Iceland, Liechtenstein and Norway)
- The project must:
 - Reach **financial close within 4 years** after grant signature (maximum time to financial close)
 - **Operate at least** (minimum GHG emission avoidance monitoring period) **5 years** after entry into operation
 - Except SSP and PILOTS – at least 3 years after entry into operation
- Project budget: the maximum grant amount **must not exceed 60 % of the relevant costs**

Eligibility: Total CAPEX

Topic	Project eligibility
Large-scale projects	CAPEX > EUR 100 million
Medium-scale projects	EUR 100 million < CAPEX > EUR 20 million
Small-scale projects	EUR 20 million < CAPEX > EUR 2.5 million
Clean-tech manufacturing	CAPEX > EUR 2.5 million
Pilot projects	CAPEX > EUR 2.5 million

Eligibility: Themes and priorities

Large, Medium and Small-Scale projects

- **Innovation in low-carbon technologies and processes** in sectors listed in Annex I and Annex III to the EU ETS Directive [2003/87](#), including CCU
- Construction and operation of projects for **CCS**
- Construction and operation of innovative **renewable energy** and **energy storage technologies**
- **Maritime and aviation** transport sectors: energy efficiency, sustainable alternative fuels, electrification, zero-emission propulsion technologies, wind technologies, innovative infrastructure in the maritime sector for EU container transshipment ports



Clean-tech manufacturing

- **Renewable energy installations** (in photovoltaics, concentrated solar power, on-shore and offshore wind power, ocean energy, geothermal, solar thermal, and others), including their connection to the electricity/heat grid
- **Electrolysers and fuel cells**
- **Energy storage solutions** covering batteries and other storage solutions for stationary and mobile use for intra-day and long duration storage
- **Heat pumps**

Pilot projects

- Construction and operation of projects **validating, testing and optimising highly innovative, deep decarbonisation solutions in all sectors** eligible for Innovation Fund support

Award Criteria

Degree of Innovation

- Innovation beyond state of the art (see Annex 1 of call text) at European level (except SSP – European or national)
- Consider the ongoing Innovation Fund [projects](#)

GHG emission avoidance potential

- Absolute
- Relative
- Quality of the GHG emission avoidance calculation and minimum requirements

Bonus:

1. Potential for **net carbon removals**
2. **Other GHG savings**, e.g. due to transportation of raw materials or finished products, waste management, upstream emissions of fuels in the project scenario

New GHG emission calculation methodologies for maritime and aviation sectors

Project maturity

- Technical
- Financial
- Operational

Replicability

- Efficiency gains
- Further deployment
- Resilience of EU industrial system
- Multiple environmental impacts
- Knowledge sharing

Bonus:

1. Use **electricity from additional renewable sources** or use **RFNBO** hydrogen
2. Demonstrated potential to decarbonising the **maritime sector** and reducing its climate impacts

Cost efficiency

- Cost efficiency ratio (different formula for Pilot projects)
- Quality of the cost calculation and minimum requirements

Innovation Fund 2023 Call – maritime sector

Examples of activities: breakthrough innovative technologies, including energy efficiency, sustainable alternative fuels, electrification, as well as zero-emission propulsion technologies, such as wind technologies, including innovative infrastructure in the maritime sector, notably for EU container transshipment ports

Methodology for GHG emission avoidance – specific instructions and calculator for the maritime projects

Activities which include ship building or refurbishment outside of EU are not eligible!

Geographical location (ships): ships must call ports under the jurisdiction of an EU Member State or EEA country on a regular basis (at least 30% of their annual calls on ports) or perform service or support activities in such ports

Geographical location (ports): when the projects concern investments in ports infrastructure (e.g. renewable alternative fuel bunkering infrastructures in ports, including container transshipment ports), the ports must be under the jurisdiction of an EU Member States or an EEA country

Bonus point for projects demonstrating potential to decarbonising the maritime sector and reducing its climate impacts

[Link to Info Day for recordings](#)



IF23 CALL INFO DAY

7 December 2023
10:00 - 17:30 CET

Register and listen to the Info
Day

INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality

IF23 RFNBO H2 Auction call in a nutshell



[Link to Info Day for recordings](#)

Sign up as an EU expert

for the INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality



More information here:



<https://europa.eu/IRtnFw>

Join as project evaluator for Innovation Fun

- Technical expert
- Financial expert
- GHG expert
- Rapporteur

[Sign up as an Expert \(europa.eu\)](https://europa.eu/IRtnFw)



Where to find more information?



All (past) call documents available on the Funding and Tenders Portal including:

- ✓ Guidance and calculation tools on GHG emissions and relevant costs
- ✓ Frequently asked questions

<https://europa.eu/!QB67by>



Further info, planning of new calls, recorded webinars and videos available on the IF Website:

<https://europa.eu/!rx34Dt>



Innovation Fund - YouTube

<https://bit.ly/2WxK8w7>



European
Commission