

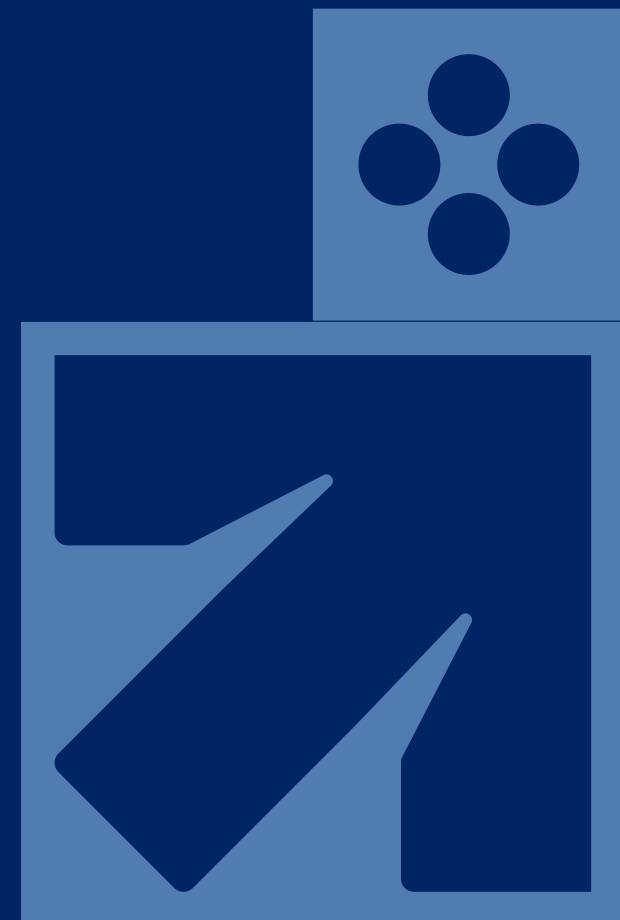
# **WELCOME!**

## **Info Day: EU Innovation Fund Call 2025**

 **22.1.2026, 9:00-12:00**



**BUSINESS  
FINLAND**



# **THE EVENT IS ORGANIZED IN COLLABORATION WITH:**

**ENTERPRISE EUROPE NETWORK**

**EUROPEAN CLIMATE, INFRASTRUCTURE AND ENVIRONMENT EXECUTIVE AGENCY (CINEA)**

**MINISTRY OF ECONOMIC AFFAIRS AND EMPLOYMENT OF FINLAND**

**BUSINESS FINLAND'S HYDROGEN AND BATTERIES PROGRAM**



**BUSINESS  
FINLAND**

# AGENDA 9:00-12:00

**9:00** Welcome – **Timo Ritonummi**, Senior Ministerial Adviser, Ministry of Economic Affairs and Employment

Innovation Fund: Policy Introduction – **Rowan Steele**, Policy Officer, DG CLIMA

The Net-zero Technologies Call – **Rowan Steele**, **Gianluca Tondi** and **Annemarie Coolen**, CINEA & DG CLIMA

**10:15** Break

Innovation Fund Heat Auction – **Gianluca Tondi**, Head of Sector, CINEA

Innovation Fund Hydrogen Auction – **Rowan Steele**, Policy Officer, DG CLIMA

Project Development Assistance by European Investment Bank – **Wassim Semaan**, Sr. Sector Engineer, EIB

Synergies with Horizon Europe: Clean Industrial Deal Calls – **Emmi Nahi**, Senior Advisor, EEN, Business Finland

<sup>3</sup>  
**12:00** The event ends and is followed by optional self-paid lunch

# HOUSEKEEPING

**The event will be recorded, the Q&A excluded**

**The slides will be shared via email after the event**

On-site participants:

- If you have a question, please raise your hand and we will bring you a mic
- Please keep your phone in silent mode

Online participants:

- Please keep your mic and camera closed
- If you have questions, please write them in the chat - discussion primarily with on-site participants; questions from the Teams chat may also be taken up

# National Info-day Finland

**Rowan STEELE - DG CLIMA**

**Annemarie COOLEN, Gianluca TONDI - CINEA**

*Helsinki, 22 01 2026*

# Disclaimer

The event and its recording as well as the presentation support materials, are made public to provide potential applicants with general guidance to help them complete their proposals.

If there is any conflict between:

- the information provided during the Info day session itself, its recording, the Financial Information File tutorial recording, and the presentation support materials on the one hand, and the provisions set out in the **official call text** for the Innovation Fund calls for Industrial Heat Decarbonisation Auction, Hydrogen Auction and Net Zero Technologies as well as the **related FAQs** posted on the EU Funding & Tenders portal on the other,

*the latter two documents **take precedence** over the materials from the Info day and act as the text of reference for the IF25 Industrial Heat Decarbonisation Auction, the IF25 Hydrogen Auction and the IF25 Net Zero Technologies calls.*

The information provided at the Info Day is not of a binding nature and without prejudice to the assessment of the submitted proposal(s).



# Evolution of the Innovation Fund

## Adapting to an evolving industrial and political context

### 2020 - 2022

- Two calls per year
  - Small- & Large-call



### Since 2023

- Net-zero call (5 topics)
  - Large, medium and small-scale projects
  - Dedicated budget for clean-tech manufacturing and for pilots
  - Raised CAPEX for Small-scale (€20M)
- RFNBO-H<sub>2</sub> auction call
  - EU H<sub>2</sub> bank



### 2024

- Net-zero call (5 topics)
- RFNBO-H<sub>2</sub> auction
  - Topic dedicated maritime
- Battery manufacturing call



### 2025

- Net-zero call (5 topics)
- Hydrogen Auction
  - For both RFNBO and low carbon H<sub>2</sub>
  - Topic dedicated to maritime and *aviation*
- Heat Auction (**new**)

11 calls successfully closed, ~2000 proposals received, over €15.8 billion awarded



# Innovation Fund portfolio

Ongoing projects + Projects from IF24 calls\*



**276 projects**

197 ongoing +  
79 under GAP



**~€15.8 billion**

€11.8 billion allocated  
+ €4 billion under GAP



**~1 160 MtCO<sub>2</sub>e**

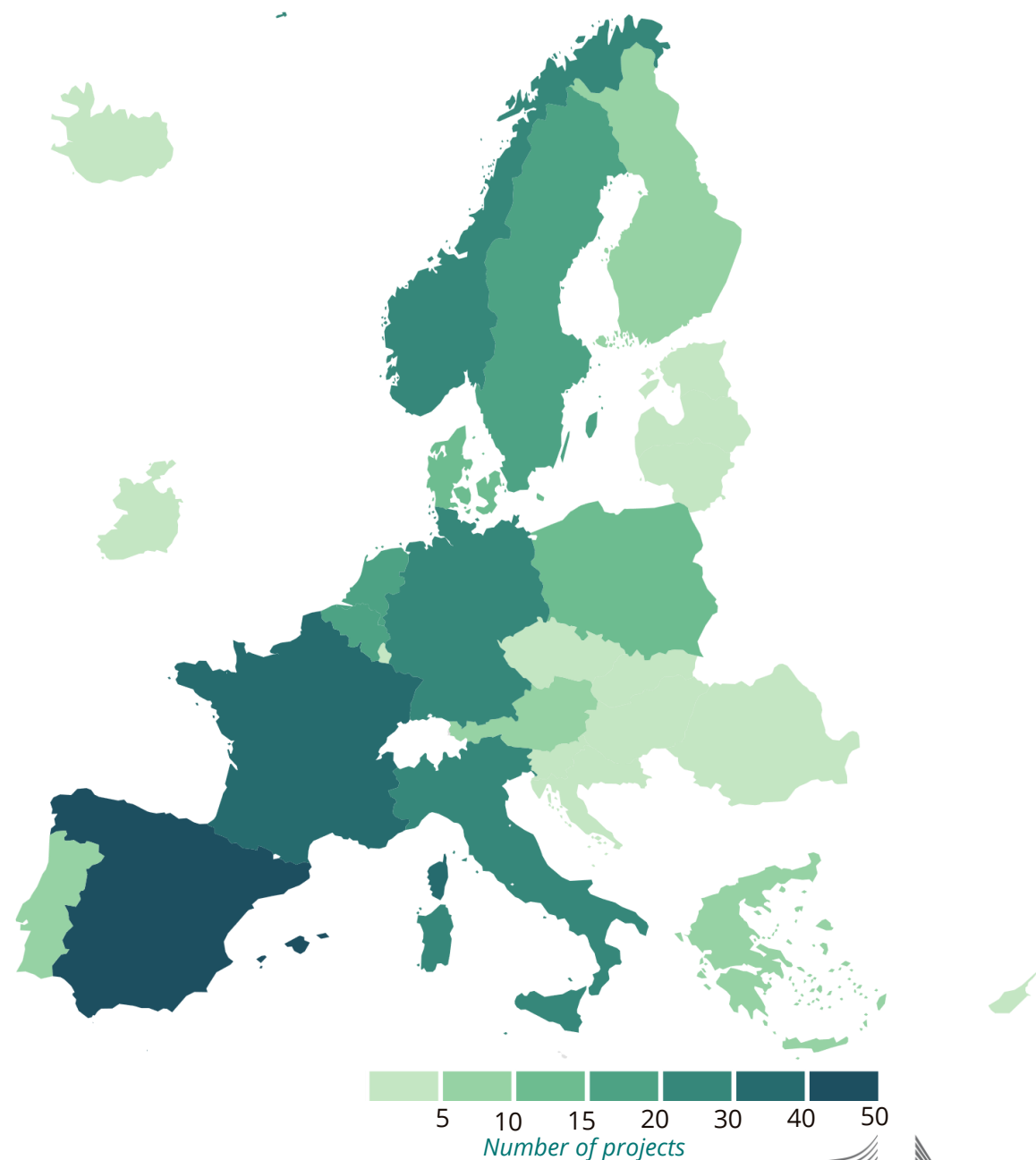
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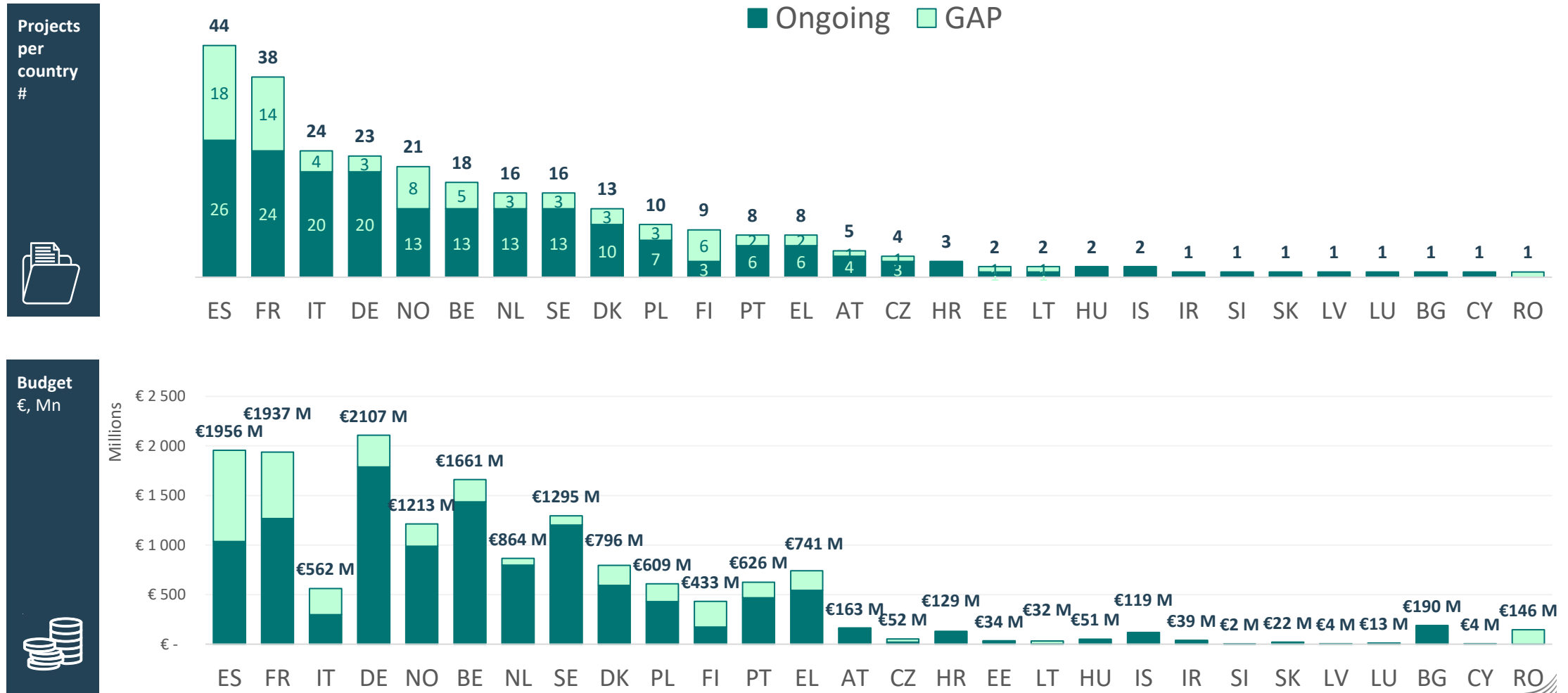
**28**

**countries**

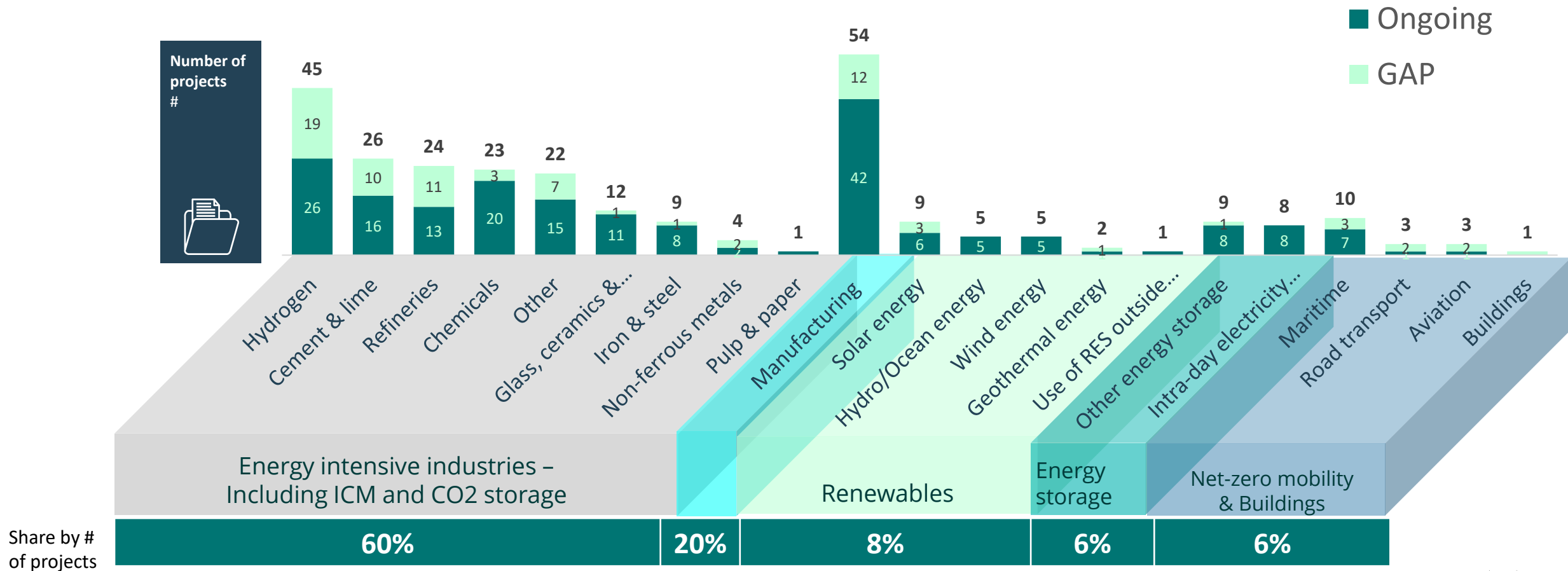
New country in portfolio: Romania



# Geographical distribution of the portfolio\*



# Innovation Fund Portfolio by sector



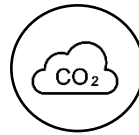
# Finland



10  
Projects<sup>1,\*</sup>

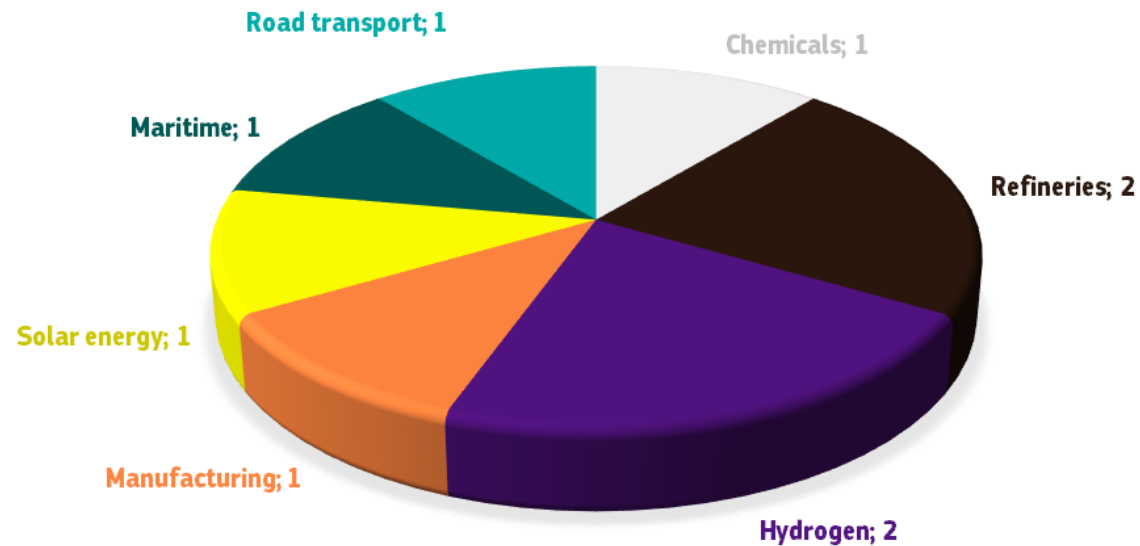


433 million €  
EU contribution



14.5 MtCO<sub>2</sub> eq first  
10 years

## Sectoral distribution



## Finland

<sup>1</sup>Based on ongoing projects by 30/09/2025 + projects from IF24 Calls

\* The total number of projects include projects with implementation sites in multiple countries. For maps and statistical analysis (including budget, GHG abatement and sectoral distribution) such projects are allocated to their main country of implementation (9 projects in Finland).

# Finland

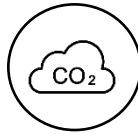
## Performance through Innovation Fund calls



10  
Projects<sup>1,\*</sup>

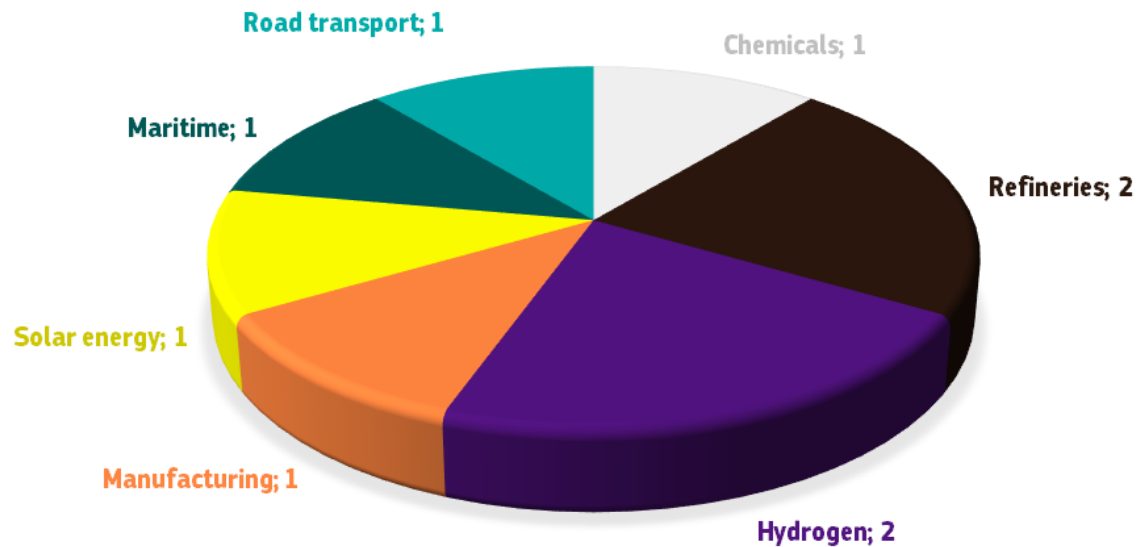


433 million €  
EU contribution



14.5 MtCO<sub>2</sub> eq first  
10 years

### Sectoral distribution



Finland

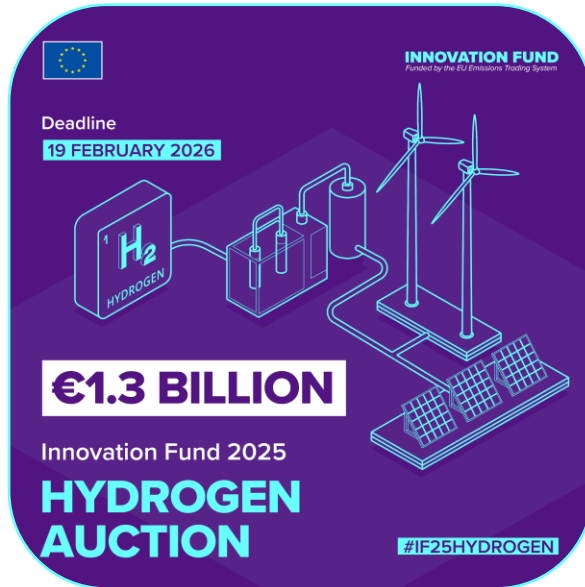


The STEP seal has been awarded to proposals passing the evaluation process for the NZT-2023, NZT2024 and IF24 Battery call

\*GAP: Grant Agreement Preparation

1 Based on ongoing projects by 30/09/2025 + projects from IF24 Calls

# Which call should you apply for?



## IF25 Hydrogen Auction

- RFNBO hydrogen production
- RFNBO and/or low-carbon **electrolytic** hydrogen production
- RFNBO and/or low-carbon **electrolytic** hydrogen production for **maritime** and **aviation** sectors



## IF25 Industrial Heat Auction

- 100-400°C - thermal capacity 3-5MW
- 100-400°C - thermal capacity > 5MW
- > 400°C - thermal capacity > 3 MW



## IF25 NZT Call

Innovative commercialisation, demonstration, pilot plant or scale up of technologies, business models and processes that reduce GHG emissions

[Q&A](#)

[Funding and tender portal](#)



# IF25- CALLS – additional information



## IF25 H2 AUCTION

Closing date: 19/02/2026  
Budget: € 1.3 billion

Info day [recording and presentation](#)

[Q&A](#)  
[Funding and tender portal](#)



## IF25 HEAT AUCTION

Closing date: 19/02/2026  
Budget: € 1.0 billion

Info day [recording and presentation](#)

[Q&A](#)  
[Funding and tender portal](#)



## IF25 NZT

Closing date: 23/04/2026  
Budget: € 2.9 billion

Info day [recording and presentation](#)

[Q&A](#)  
[Funding and tender portal](#)

# IF25 Net Zero Technology Call

**Rowan STEELE - DG CLIMA**

# IF25 NZT call in a nutshell



Launch 4 Dec. 2025  
Deadline **23 April 2026**  
Results Q4 2026



- **€2.9 billion for grants**
- **Project Development Assistance**
- **STEP Seal**
- **Possibility of “Grants-as-a-Service”**



**Five topics**

## AWARD CRITERIA

- Degree of innovation
- GHG emission avoidance potential
- Project maturity
- Replicability
- Cost efficiency

Bonus points: Net Carbon Removals, SMEs, Projects in the Maritime Sector

## 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



# IF25 NZT call – Topics

Topic	Capital Expenditure	Topic budget	Sectors covered
Large-scale projects	above €100 million	€1 200 million	<ul style="list-style-type: none"> <li>Annex I and Annex III to the EU ETS Directive <u>2003/87</u>, including CCU and development of substitute products</li> <li>Carbon Capture and Storage (CCS)</li> <li>Renewable energy and energy storage technologies</li> <li>Maritime and aviation</li> </ul>
Medium-scale projects	between €20 million and €100 million	€300 million	
Small-scale projects	between €2.5 million and €20 million	€100 million	
Clean-tech manufacturing for components*	above €2.5 million	€1 000 million	<ul style="list-style-type: none"> <li>Renewable energy</li> <li>Electrolysers and fuel cells</li> <li>Energy storage solutions</li> <li>Heat pumps</li> </ul>
Pilot projects	above €2.5 million	€300 million	Validating, testing and optimising highly innovative, deep decarbonisation solutions in all sectors eligible for Innovation Fund support

\* Components also include final equipment such as wind turbines, solar panels, batteries, heat pumps or electrolysers.



# IF25 NZT call award criteria

Degree of Innovation	GHG emission avoidance potential	Project maturity	Replicability	Cost efficiency
<p>Innovation beyond state of the art at European level (except SSP – European or national level)</p> <p><i>! Consider ongoing IF projects !</i></p>	<p>Absolute emission avoidance</p> <p>Relative emission avoidance</p> <p>Quality of calculation and minimum requirements</p>	<p>Technical maturity</p> <p>Financial maturity</p> <p>Operational maturity</p>	<p>Efficiency gains and multiple environmental impacts (including DNSH)</p> <p>Contribution to Europe's industrial leadership and competitiveness</p>	<p>Cost efficiency ratio (different formula for Pilot projects)</p> <p>Quality of the relevant cost calculation and minimum requirements</p>

- Bonus points:
- 1) Net Carbon Removals
  - 2) Projects coordinated and implemented by SMEs
  - 3) Maritime sector projects



# Limited changes compared to IF24 NZT call

## **DNSH compliance**

Project activities need to comply with the “do not significant harm” principle. DNSH alignment is assessed during proposal evaluation.

## **Changes in eligibility criteria**

Manufacturing of EV battery cells now eligible. Activities primarily aimed at electricity generation from non-recycled fossil fuels, as well as activities for fossil fuel production based on non-recycled fossil feedstocks are not eligible.

## **Rationalising access of hydrogen production projects to IF funding**

Hydrogen production projects eligible for the IF25 H2 Auction are excluded from the Large and Medium-scale Projects Topics, but are still eligible under the Pilot and Small-scale Projects Topic.

## **Changes in the Bonus Points – New Bonus Point for SMEs**

New bonus point for projects coordinated and implemented only by SMEs. Replacing previous bonus points for (a) other GHG savings, and (b) electricity from additional RES or to use RFNBOs.

## **Refinements and clarifications**

Improved call text clarity, most notably on: (a) scope of Pilot topic and its evaluation under DoI, (b) refinement of Replicability award criterion, (c) clarifications on required supporting documents.



# Innovation Fund Self-check Questionnaire

- Provide an early high-level orientation on potential fit and readiness of project ideas for the Innovation Fund
  - Entirely independent from the official Innovation Fund application and evaluation process
- Available [here](#)

# Do No Significant Harm Principle

**Rowan STEELE - DG CLIMA**

# ‘Do No Significant Harm’ (DNSH) in the IF

## Requirements

- Innovation Fund must ensure<sup>1</sup> that all projects (both auctions and regular grants) meet “do no significant harm” criteria from IF25 onwards
- Screening must be done against the **Technical Screening Criteria (TSC)** listed in the Climate Delegated Regulation and Environment Delegated Regulation supplementing the EU Taxonomy Regulation

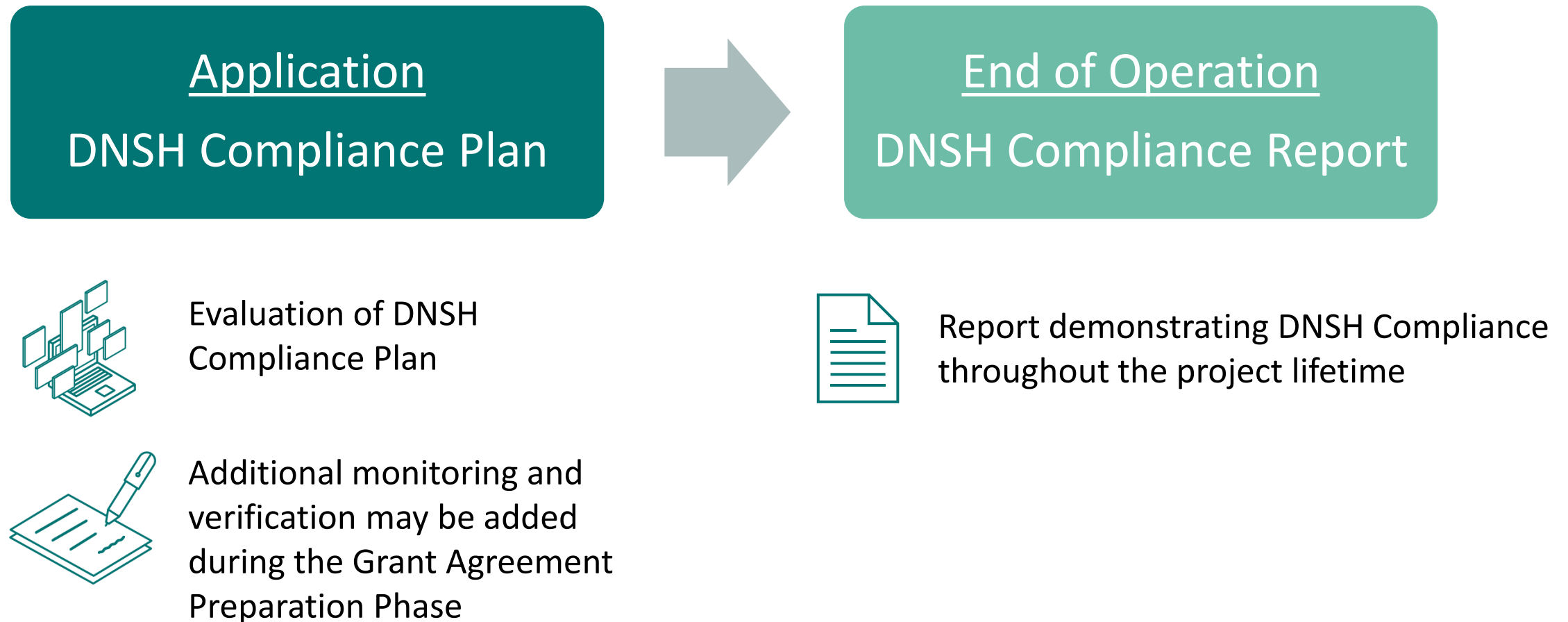
## Key Points

- Not all EU Taxonomy obligations apply (e.g. no need for ‘significant contribution’)
- **All previously eligible sectors remain eligible** to the Innovation Fund, with conditions

## Environmental Objectives

Climate Change Mitigation	Climate Change Adaptation
Water and Marine Resources	Circular Economy
Pollution Prevention and Control	Biodiversity and Ecosystems

# DNSH Assessment & Compliance Process



# Preparing the DNSH Compliance Plan

## Step 1

- Select relevant economic activity(ies)

## Step 2

- Find Technical Screening Criteria (TSC) for those activities
- Assess compliance and identify necessary actions

## Step 3

- Prepare the DNSH Compliance Plan for Application Form Part B

# NZT call - General provisions

**Gianluca TONDI - CINEA**

# How to apply?

## Tutorials

CINEA produces a series of **tutorials** to help you throughout the application process.

<a href="#">Application procedure</a>	<a href="#">How to fill in PART C</a>
<a href="#">The extra file for data collection (Extended PART C)</a>	<a href="#">Financial Information File (FIF)</a>
<a href="#">Introduction to Business Plan and lessons learned on financial maturity</a>	

## GHG methodology

Find here a set of videos on the overview and guidance on the GHG calculations for each project category.

<a href="#">Main principles and step-by-step of the GHG calculation</a>	<a href="#">Energy storage (ES)</a>
<a href="#">Energy intensive industry (EII)</a>	<a href="#">Carbon capture utilisation and storage (CCUS)</a>
<a href="#">Mobility including maritime, road transport and aviation (MOB)</a>	<a href="#">Renewable energy sources (RES)</a>

## GHG calculation

Find here a set of videos explaining how to perform calculations for a selection of examples.

<a href="#">RES - Manufacturing of components (wind blades)</a>	<a href="#">ES – Reactive services</a>
<a href="#">EII - Production of methanol</a>	<a href="#">MOB – Aviation plus modal switch</a>

## Additional supporting material

To complete the GHG Methodology tutorial and help you with your proposal, templates and examples of **GHG calculations** are available through the [following link](#).

As in previous years to support project promoters in understanding the objectives, scope and key requirements of the Innovation Fund, you can use the ["self-check questionnaire"](#) to assess if your project idea fits the IF25 NZT call.

Check out the [Q&A document](#). If you still need further assistance, don't hesitate to contact the [Innovation Fund Helpdesk](#).

## Check all relevant information to apply

- [Funding and Tenders Portal link](#)
- [CINEA website](#)
  - [Tutorials:](#)
    - Application process
    - How to fill in PART C and the extended Part C form
    - Financial Information File tutorial
    - Introduction to Business Plan & Lessons Learned on Financial Maturity
    - GHG methodology
    - GHG calculation
  - [Info Day recording and slides](#) (available after the event)
  - [Additional supporting material](#)
    - Frequently Asked Questions
    - Helpdesk

# Mandatory documentation

IF25 NZT Call text on [Funding and Tenders Portal](#)

Application form A	Application form B	Part C	Mandatory annexes and supporting documents
<ul style="list-style-type: none"><li>• Administrative information</li><li>• Summarised budget</li></ul>	<ul style="list-style-type: none"><li>• Technical description</li><li>• Up to 70 pages</li></ul>	<ul style="list-style-type: none"><li>• Project's contribution to EU programme KPIs</li></ul>	<ul style="list-style-type: none"><li>• Detailed budget table/relevant cost calculator</li><li>• Participant information</li><li>• Timetable/Gantt chart</li><li>• GHG emission avoidance calculator</li><li>• Feasibility study</li><li>• Business plan</li><li>• Detailed financial model</li><li>• Project shareholders' financial resources</li><li>• Support to project</li><li>• Terms of supply</li><li>• Extended Part C form</li></ul>

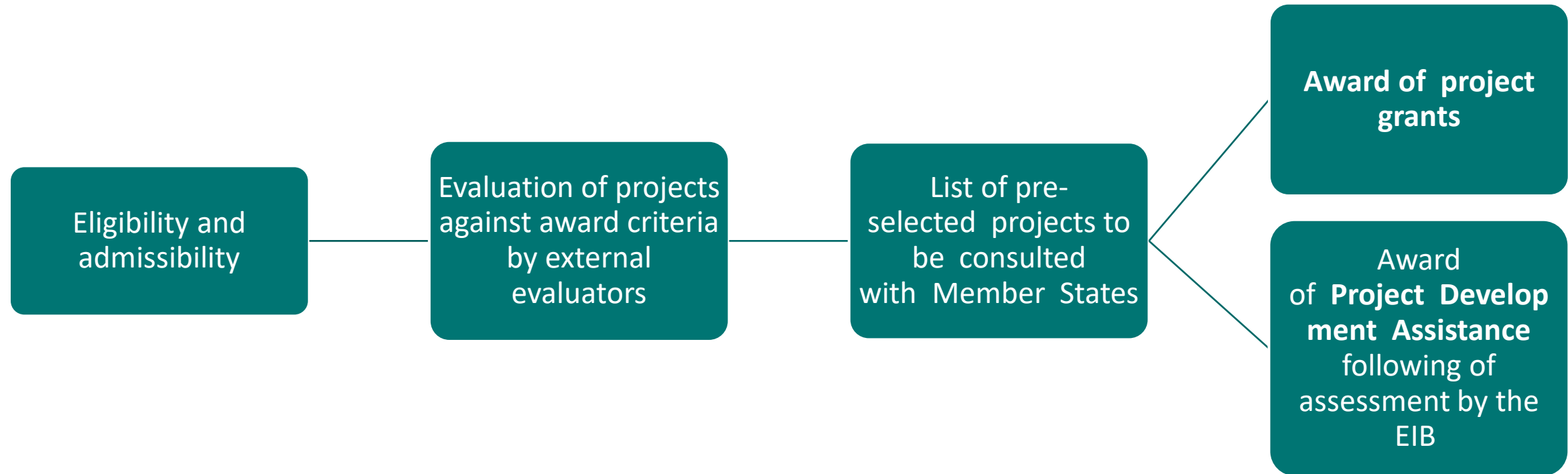
# Guidance for PART A, Abstract

- CINEA and the European Commission will use the abstract (Part A) to **extract key information**
- Evaluators rely on it to understand your proposed work
- **Do not insert confidential or sensitive information**

## 4 short paragraphs

- **objective(s)**/key advantage(s)/key features of the technology
- Explain what makes your project innovative? Describe how your project goes beyond the state of the art and explain the innovation(s) in terms of technologies, size, commercialisation, etc.
- Highlight the **contribution** of your project to the **key policy areas**
- Describe the **impact** of your project with specific references to the contributions to local and/or regional economy, job creation,...

# Selection Procedure



# Admissibility and eligibility criteria

## Admissibility:

- Submitted **before** call **deadline 23 April 2026, 17.00**, electronically and using forms in the Submission System
- **Complete** all the application forms and **include all mandatory annexes** and supporting documents
- Your application must be **readable, accessible and printable** (please check carefully the layout of the documents uploaded). **Respect the page** limit indicated in the call.

## 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 four years** after grant signature (maximum time to financial close)
  - **Operate at least** (minimum GHG emission avoidance monitoring period) **five years** after entry into operation (except PILOTS and SSP)
- SSP and PILOTS – operate at least **three** years after entry into operation
- Project budget: the maximum grant amount must not exceed **60% of the relevant costs**
- Your project must relate to **eligible activities**



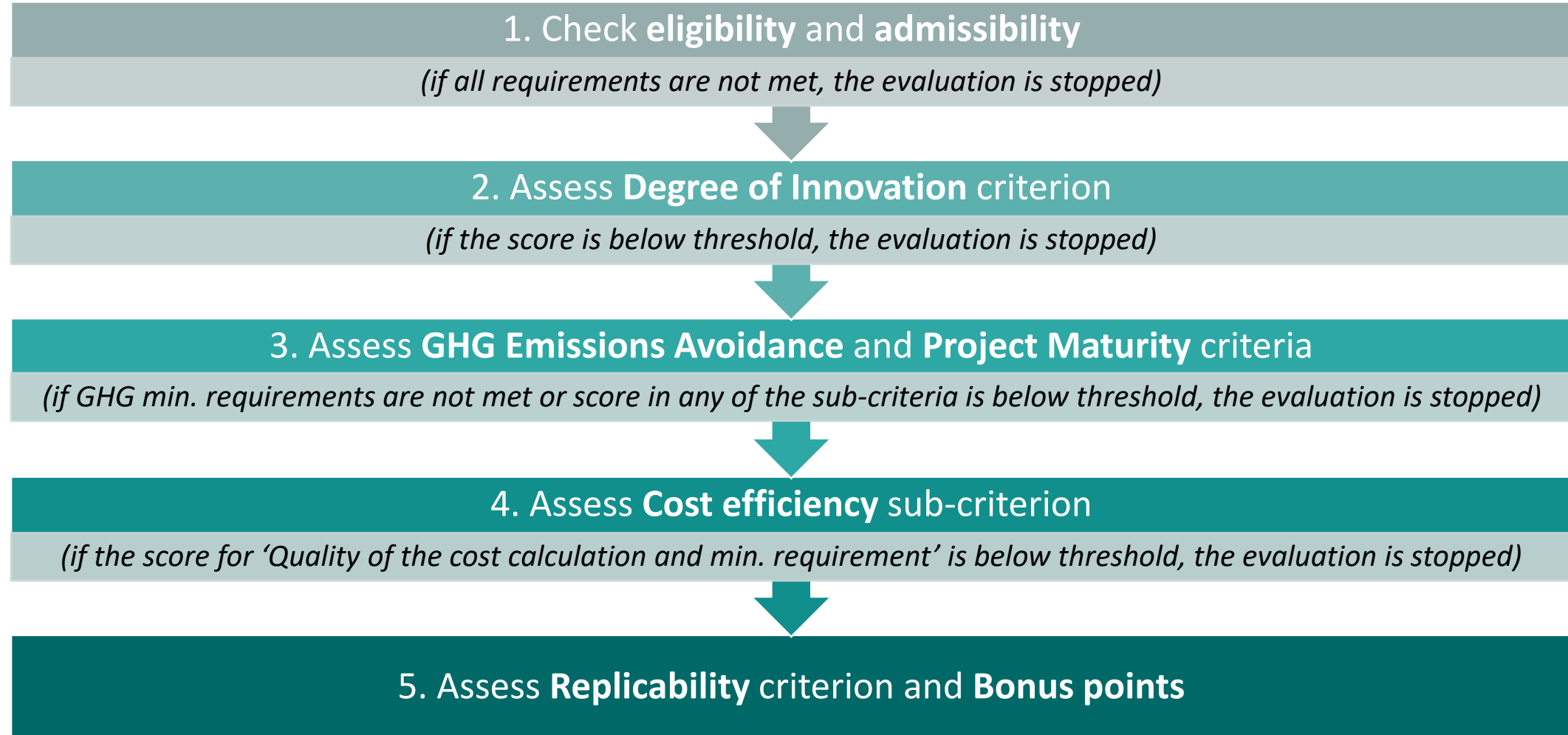
# Geographical location for maritime projects

- When the projects concern investments on ships, those **ships must**:
  - Carry a flag of an EU Member States or an EEA country\* and call ports under the jurisdiction of an EU Member State or EEA country at least 15% of their calls on ports over two years
  - Or must call ports under the jurisdiction of an EU Member State or EEA country\* at least 30% of their calls on ports over two years
  - Or perform service or support activities in ports under the jurisdiction of an EU Member State or EEA country
- When the projects concern investments in ports infrastructure, the ports must be under the jurisdiction of an EU Member States or an EEA country
  - Some examples: renewable alternative fuel bunkering infrastructures in ports, including container transshipment ports

*\*(see the list in the call text)*



# Cascade approach



# Evaluation timeline

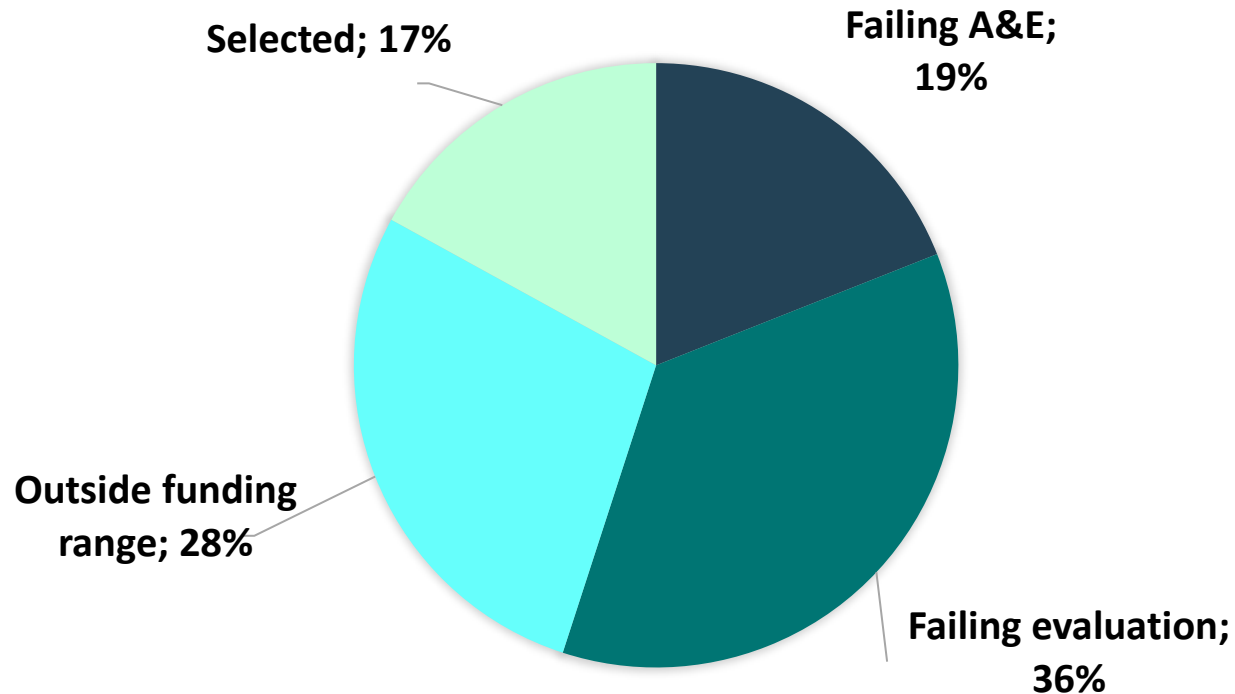


# Lessons learned from IF24 Net-Zero Technologies call

**Gianluca TONDI - CINEA**

# IF24 NZT Call Results

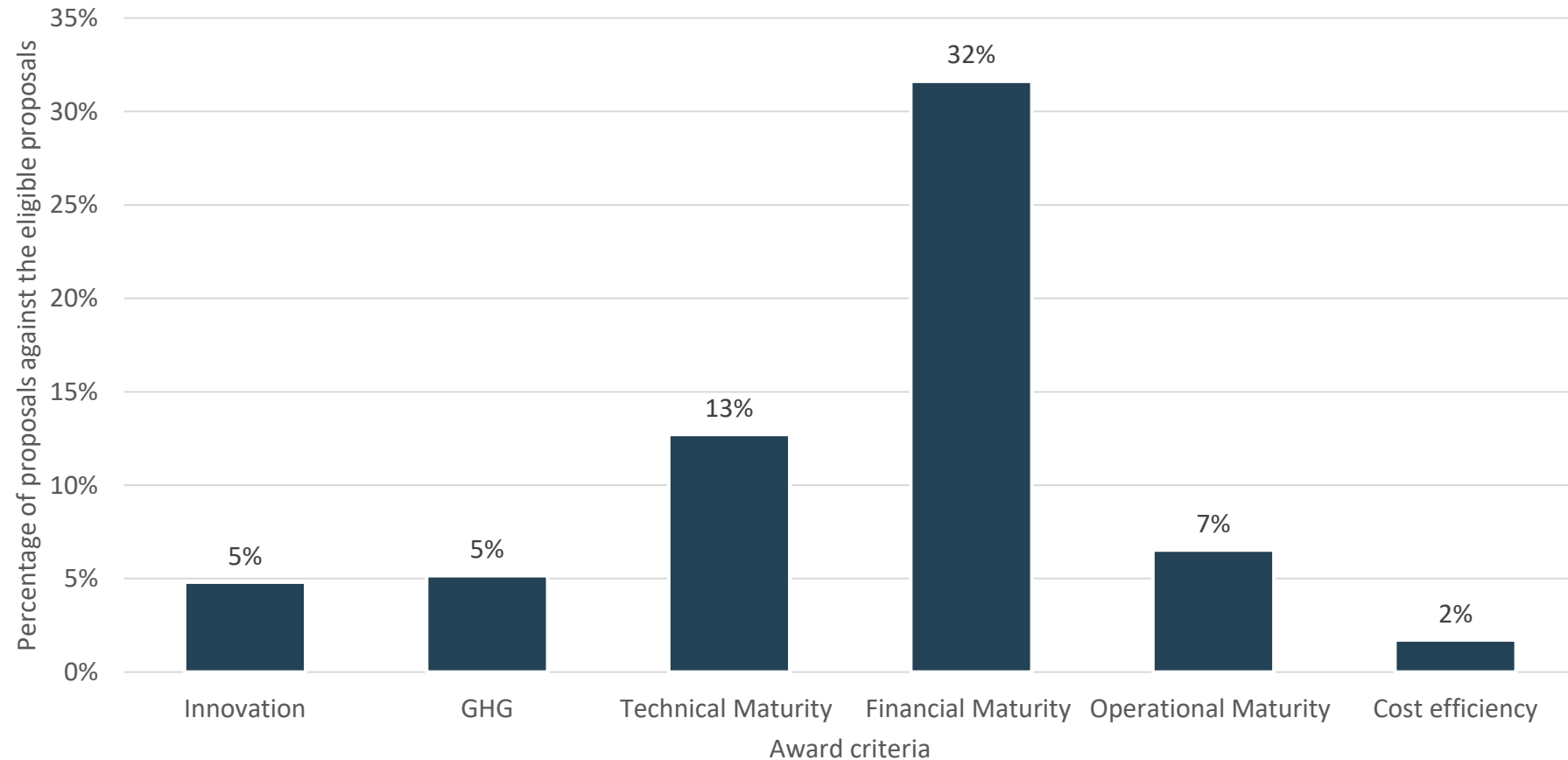
## CALL RESULTS AS PERCENTAGE OF THE SUBMITTED PROPOSALS



- **359** received proposals
- **291** proposals were A&E
- **100** resubmissions
- **61** invited for Grant Agreement Preparation;
- **55%** of the evaluated proposals passed all evaluation criteria

# IF24 NZT Call results: Failure rate per award criterion

Proposals failed against the eligible proposals (291)

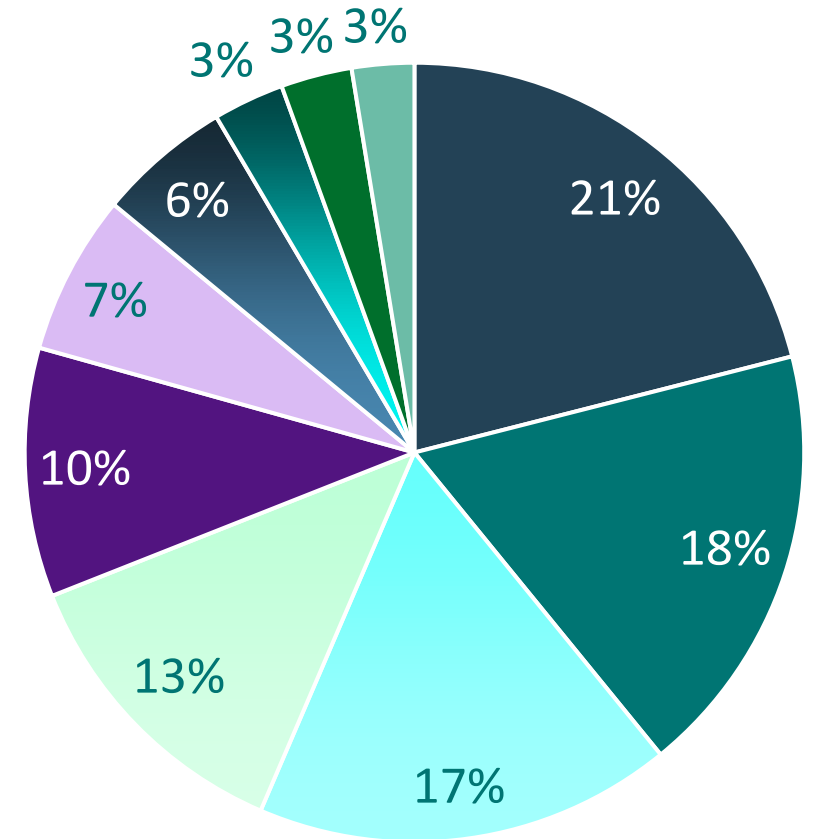


*\*Some proposals failed under more than one criterion*

# IF24 NZT Call results: Admissibility and Eligibility (A&E)

## Main reasons for not passing A&E\*

- Incomplete or missing financial documents (*submitted business plan or financial model does not follow the required template and does not contain the required minimum information*)
- Incomplete or missing technical documents (*e.g. part B does not use the required template; feasibility study does not contain the required minimum information; the Gantt chart is missing*)
- Budget > 60% Relevant Costs
- Minimum operation duration not respected
- Incorrect CAPEX
- Ineligible activities (not in scope)
- Financial close after 4 years after GA signature
- Ineligible country of implementation
- Ineligible applicant
- Not readable, accessible, and printable set of documents



# Lessons learned: Admissibility & Eligibility

## Follow the call text guidance precisely

- Use the official Innovation Fund **templates** for the proposal, budget, and annexes
- **Respect page limits**, file formats, font and formatting rules
- Provide **all requested documents** to be admissible
- **Make sure that the information is complete**
- **Watch budget limits and submission deadline**
- **Be consistent across the call documents**
- **Be realistic and conservative**



# Innovation Fund 2025 Net-Zero Technologies Call

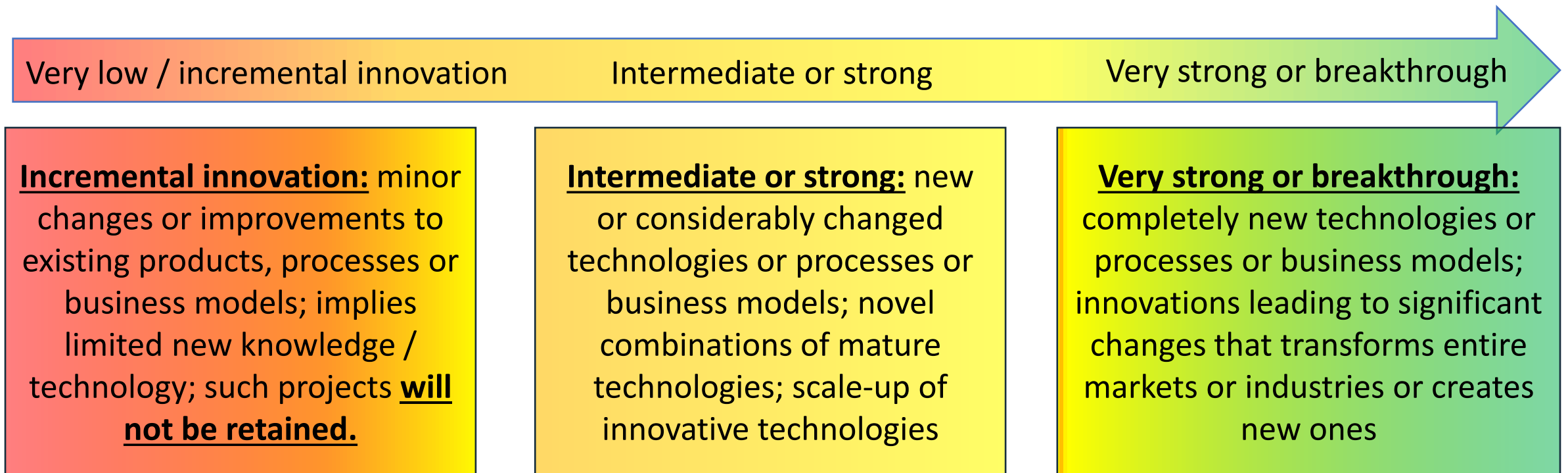
## Award Criteria

# Degree of Innovation

**Gianluca TONDI - CINEA**

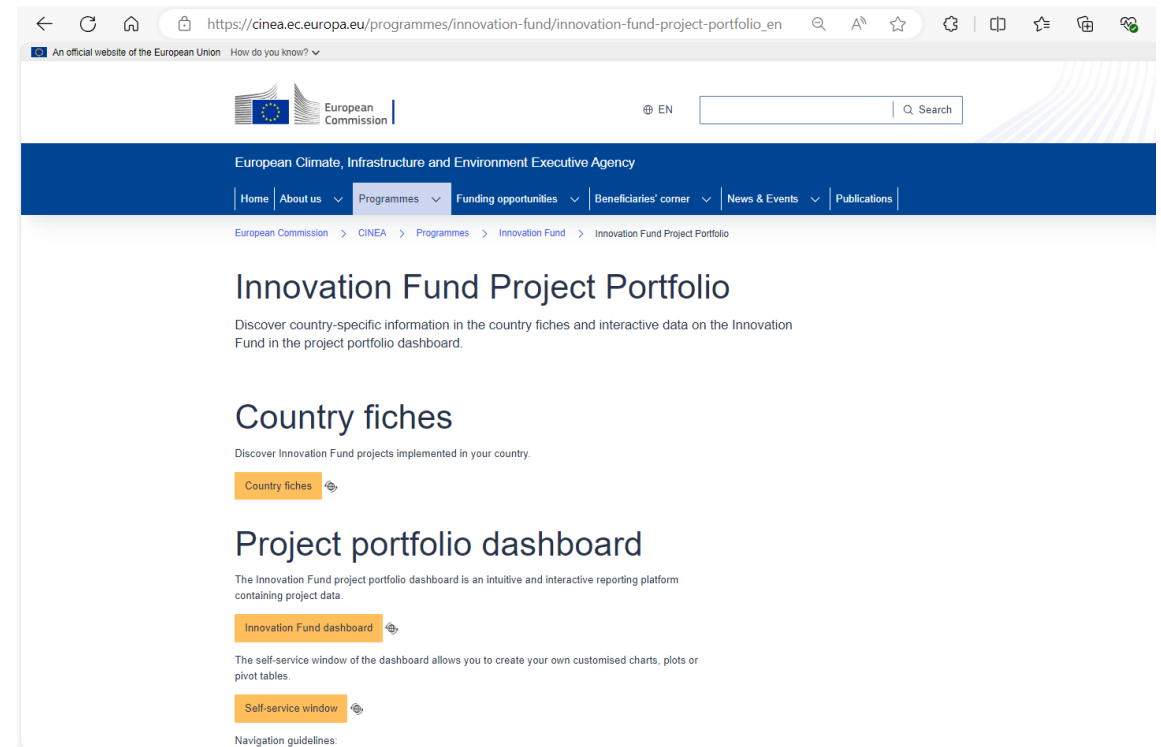
# Degree of Innovation

The Innovation Fund aims at supporting projects beyond incremental innovation on a scale from intermediate to breakthrough, including scaling-up, considering the European level as reference point (for SSP topic the European or national level)



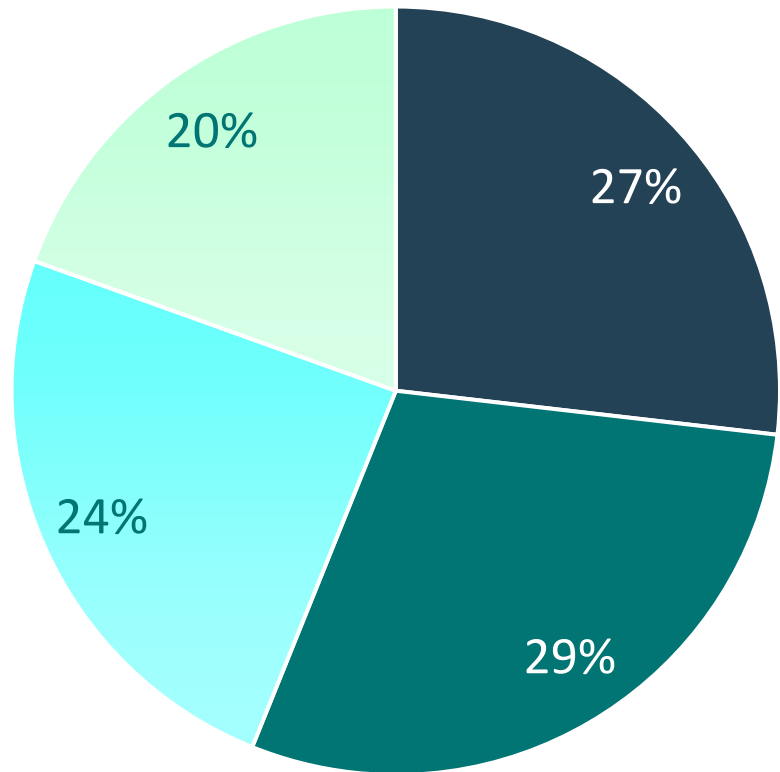
# References to Innovation Fund projects

- Proposals focusing on innovations similar to the ones of ongoing Innovation Fund projects, must clearly justify where the new innovative elements lie
- Such projects may receive a lower score
- Consult the list of funded Innovation Fund projects (Innovation Fund Project Portfolio Dashboard)



# IF24 NZT Call results: Degree of Innovation

14 proposals out of 291 failed under Degree of Innovation



- The progress beyond the state-of-the-art (commercial and technological) of the proposed solution (or of the combination of its individual elements) is not sufficiently substantiated with evidence and reference
- The credibility of the claimed innovations and improvement of performance are not supported by quantified data
- The benchmark state of the art is not adequately identified/described
- Similar ongoing IF projects are not (appropriately) identified and/or a relevant analysis is not provided

# Lessons learned: Degree of Innovation

## Describe

Describe relevant state of the art

Include both technological & commercial aspects

Provide quantitative inputs and evidence for:

- Costs
- Technical characteristics & performance
- TRL/SRL

## Identify

How does your innovation go beyond state of the art?

- Compare with previous & ongoing EU and IF projects
- Provide geographical reference point

Consider barriers: for scaling up & for technology integration

## Evidence

Compare key performance data vs state of the art

Relevant parameters

Consider also energy efficiency and circularity

Provide patent data (when relevant)

Consider how will the innovation be implemented or integrated?

# GHG emission avoidance

**Gianluca TONDI - CINEA**

# GHG emission avoidance potential

# Emission Avoidance

- **Absolute GHG emission avoidance:** difference between the expected GHG emissions of the proposed project and the GHG emissions in the reference scenario during 10 years after entry into operation
- **Relative GHG emission avoidance:** absolute GHG emission avoidance divided by the GHG emissions in the reference scenario over the same 10 years period

The calculation must be done:

- using the relevant GHG emission avoidance calculator
- following the [Methodology for GHG Emission Avoidance Calculation](#)

	A	B	C	D	E	F	G
1	General Information						
2	General Information						
3	Chemical name	EW	Comment / Restrictions	Use / Intention / Priority			
4	Chlorine	28	Should not be used on any metal or metal compound, or on any other substance.	Use for disinfection of surfaces. Do not use on metal surfaces. Do not use on PVC, PE, PP, PS, PC, PMMA, etc.	OK		
5	Other	Chlorine			OK		
6	Principle of disinfection	Oxidizing chemical	Disinfection is achieved by the oxidation of the microorganisms. The active chlorine is converted into hypochlorous acid, which is the active disinfectant. The active chlorine is converted into hypochlorous acid, which is the active disinfectant.	Disinfection is achieved by the oxidation of the microorganisms. The active chlorine is converted into hypochlorous acid, which is the active disinfectant. The active chlorine is converted into hypochlorous acid, which is the active disinfectant.			
7	Function of principle of disinfection	Hypochlorous acid is a strong oxidizing agent. It reacts with the cell wall of the microorganisms, destroying the cell wall and killing the microorganisms.	The active chlorine is converted into hypochlorous acid, which is the active disinfectant. The active chlorine is converted into hypochlorous acid, which is the active disinfectant.				
8	Reference product available for the same purpose, if different						
9	Other products		Disinfection is achieved by the oxidation of the microorganisms. The active chlorine is converted into hypochlorous acid, which is the active disinfectant. The active chlorine is converted into hypochlorous acid, which is the active disinfectant.				
10	Is this a disinfectant?	No	Disinfection is achieved by the oxidation of the microorganisms. The active chlorine is converted into hypochlorous acid, which is the active disinfectant. The active chlorine is converted into hypochlorous acid, which is the active disinfectant.		OK		
11	Is this a disinfectant for use on the surface of the disinfectant container (e.g. E. coli, etc.)						
12	Absolute GHS/CLP Classification						
13	No hazard classification and no hazard statement for the disinfectant container (e.g. E. coli, etc.).						
14	Is this a disinfectant for use on the surface of the disinfectant container (e.g. E. coli, etc.)						
15	Is this a disinfectant for use on the surface of the disinfectant container (e.g. E. coli, etc.)						
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18	Is this a disinfectant for use on the surface of the disinfectant container (e.g. E. coli, etc.)						
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# GHG emission avoidance potential

## Quality and Credibility

- **Quality of the GHG emission avoidance calculation and minimum requirements:**
  - External experts will assess the quality and credibility of your calculation of GHG emission avoidance potential
  - In case of issues in the quality of the calculation (including reliability and margin of uncertainty of key parameters and/or key assumptions), points may be reduced
  - In case the GHG emission avoidance calculation methodology is incorrectly applied or in case the application documents have not been filled correctly, the score for this sub-criterion will be below the minimum threshold and the proposal will be rejected

# GHG emission avoidance potential

## Minimum Requirements

- **When relevant, the proposal should demonstrate whether the proposed project meets or not the minimum requirements:**
  - For projects producing products with an EU ETS benchmark: the process emissions of the project per unit of product must be below the EU ETS benchmark(s) applicable at the call deadline
  - For projects using biomass feedstocks: the biomass used will at least meet the sustainability requirements of the Renewable Energy Directive
  - All projects must demonstrate compliance with the DNSH principle for the environmental objective 'climate change mitigation'.
  - For all projects: the relative GHG emission avoidance must be:
    - for all topics except INNOVFUND-2024-NZT-PILOTS: at least 50%
    - for INNOVFUND-2024-NZT-PILOTS topic: at least 75%

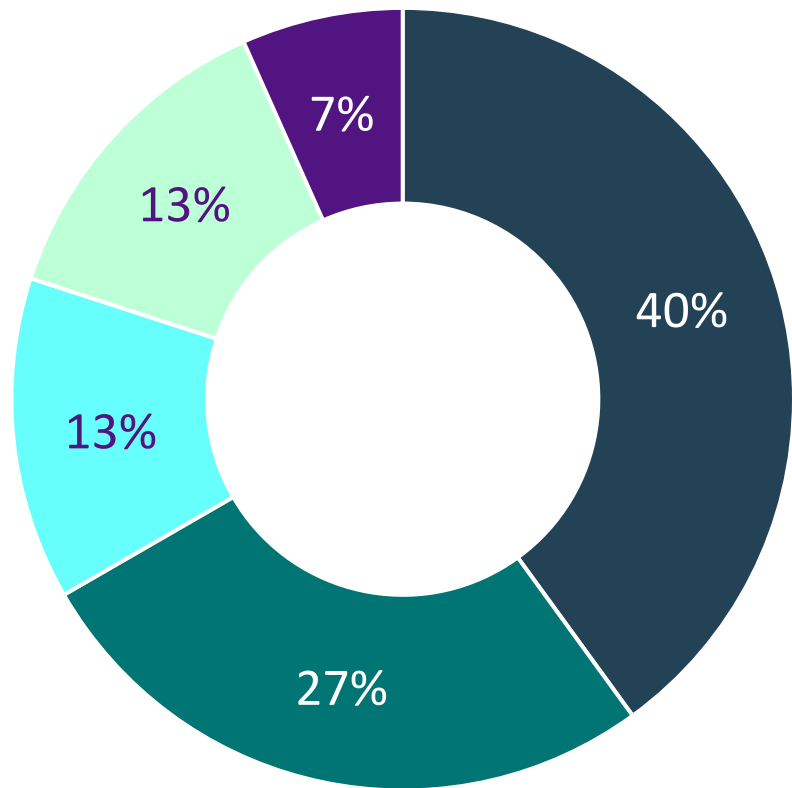
**Proposals not meeting minimum requirements will be rejected!**



# IF24 NZT Call results: GHG emission avoidance calculation and methodology

15 proposals (out of 291 proposals passing A&E) failed under GHG criterion

## Main reasons for failures under GHG emission avoidance\*



- Wrong assumptions, data not provided, or not backed with supporting evidence
- Errors in the definition of the reference scenario
- Issues with the system boundaries or time boundaries of the GHG calculations
- Wrong application of a specific provision of the GHG Methodology
- Minimum requirement for relative GHG emission avoidance not met

*\*Several proposals failed on GHG emissions avoidance criteria for more than one reason. The shown percentages are calculated vs the total number of GHG significant weaknesses. More generally, these reasons also happen to be the most common mistakes in this criterion that lower the respective score.*



# Lessons learned: GHG Emission avoidance potential

## GHG Methodology

Follow the IF GHG emission methodology for calculation and reporting:

- Identify **principal product(s)**, select sector, reference scenario and methodology accordingly
- Use correct **emissions factor(s)**

## Explain

Justify choices made in the application of the GHG emission avoidance methodology, when relevant

Assumptions must be robust and properly justified

## Evidence

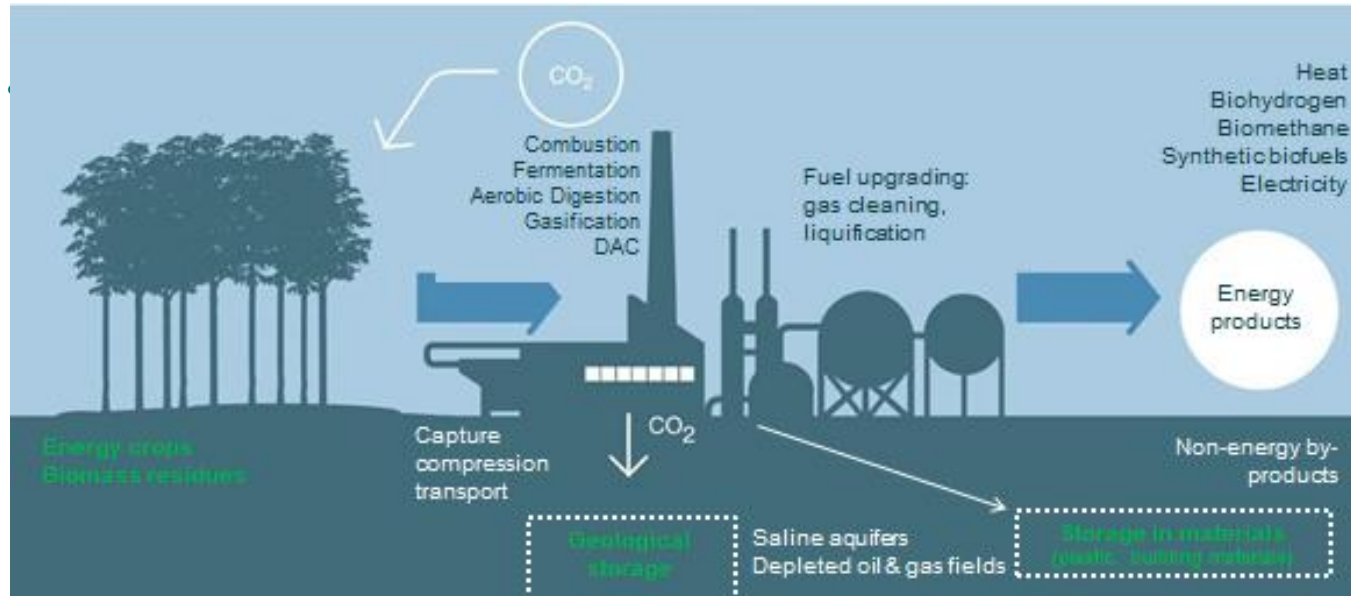
Back all assumptions and claims with the necessary supporting evidence

# Important reminders for the GHG criterion

- Read the GHG Methodology carefully, consult the examples of the application of the GHG Calculation Tools available, and the tutorials.
- Questions could be sent to the helpdesk, throughout the call window. The purpose of the helpdesk is to clarify doubts related to the methodology, not to confirm if your calculations are correct. Estimated response time: 7-15 working days from receipt.



# Bonus Point 1: net carbon removal



- Application form, Part B, Section 6

- The **total project emissions should be negative**
- For EII projects, negative emissions can only be claimed **excluding any credit for timed operation**
- For EII projects: the non-principal products are **not allowed to be the only source** of negative emissions in the projects

# Project Maturity

- Technical maturity
- Financial maturity
- Operational maturity

# Technical Maturity

**Gianluca TONDI - CINEA**

# Technical Maturity: technical feasibility

Explain the degree of technology readiness of the proposed solution and the technical feasibility of delivering the expected output (e.g. in terms of quality and volume of the products):

- Has the technology already been proven in a pilot scale demonstration?
- Are the characteristics of the proposed plant credible and in line with basic engineering principles?
- Are the technical assumptions realistic and conform with the state of technology development?
- Provide robust and credible assumptions used for operational characteristics of the plant and estimation of the expected outputs
- Provide clear reference to relevant parts of the Feasibility study and other supporting documents
- For maritime sector projects: the description of the existing vessel(s) (if applicable) and details on the operational area, shipbuilding location and servicing network

## Technical feasibility

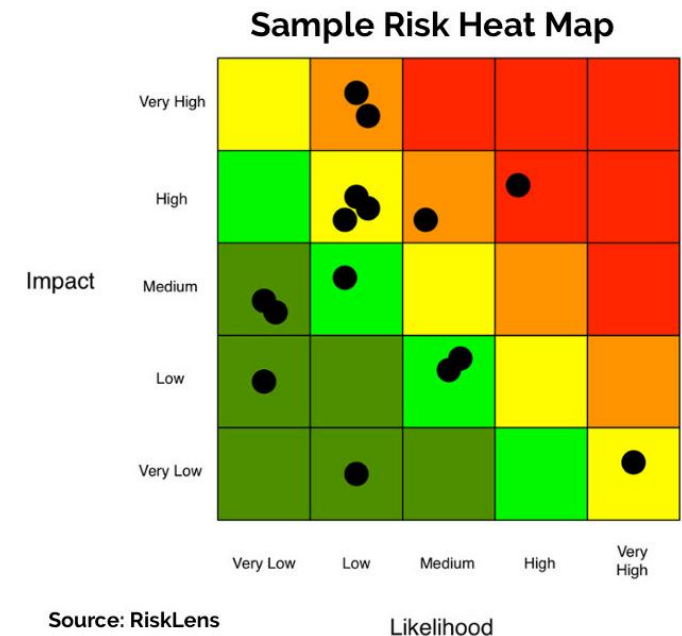
*Provide a summary of the following information provided in the feasibility study annex:*

- *project description, including:*
  - *block flow diagrams (if applicable)*
  - *technical and operational requirements*
  - *for maritime sector projects: the description of the existing vessel(s) (if applicable) and details on the operational area, shipbuilding location and servicing network*
- *technical maturity, including:*
  - *assumptions used for operational characteristics*
  - *technology readiness level*
  - *process flow diagram(s)*
  - *schematic (preliminary) layout(s) and design(s) (including capacities)*
  - *mass and energy balances (including before and after the project, if applicable)*
  - *volume of the final product(s)*
  - *technical assumptions and figures used for the estimation of the GHG emissions avoidance.*

# Risk analysis and management

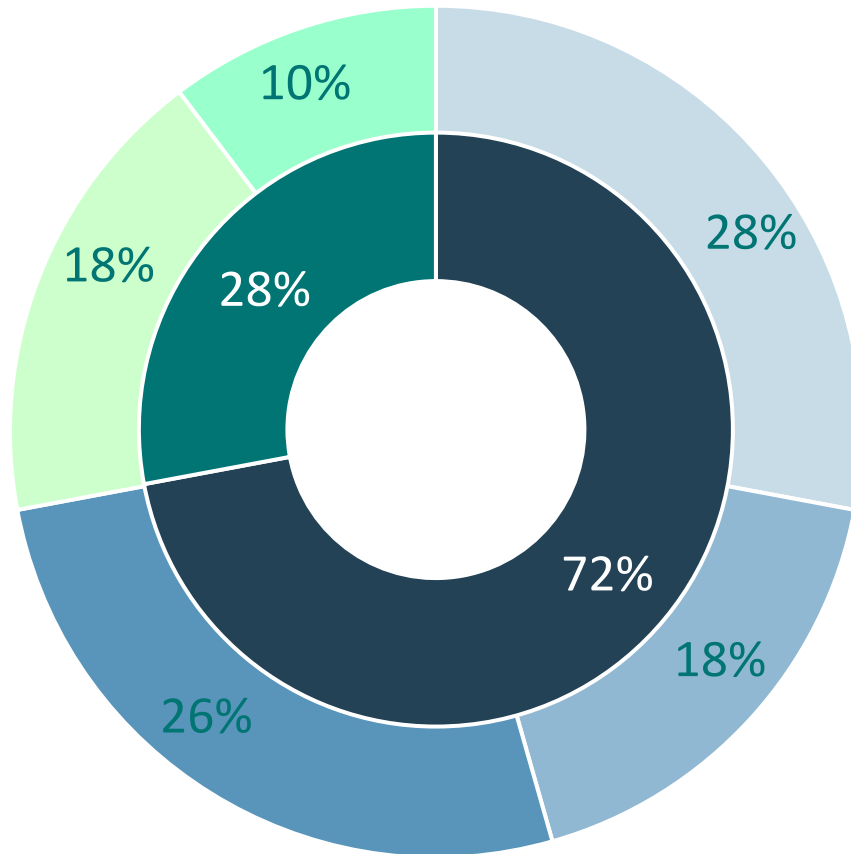
Risks are included **only** in the Feasibility Study (mandatory annex) which must:

- Describe key risks that could impact the technical feasibility of the proposed technology/process
- Describe the impact if the risk materializes and the proposed risk mitigation measures and explain why they are suitable
- Summarize your analysis in a table (see template)
- Provide a risk heat map



# IF24 NZT Call results: Technical Maturity

37 proposals (out of 291 proposals passing A&E) failed under Technical Maturity



- Technical feasibility of achieving the expected project outputs
  - The proposed technology has not been sufficiently/convincingly proven in a pilot scale demonstration
  - The technology readiness of the project is not substantiated with sound data
  - Characteristics of the proposed plant are not in line with basic engineering principles
- Technical risks and proposed risk mitigation measures
  - Failure to identify risks
  - Failure to provide risk mitigation measures

# Lessons learned: Technical Maturity

Ensure **full consistency** between documents: Feasibility study, business plan, GHG calculations



**Resubmissions are welcome, especially when TRL is improving!**

# Financial Maturity

**Annemarie COOLEN - CINEA**

# Financial Maturity award criterion

**Objective: assess the project's ability to reach Financial Close as soon as possible and no later than 48 months after GA signature**



## Business plan

Credibility of the business model and plan  
Robustness of cash flow projections and viability



## Financing plan

Soundness of the financing plan  
Solidity and commitment of project funders



## Risks

Understanding of business and financial risks  
Mitigation measures

# Financial Maturity - key documents (1/2)

## Relevant proposal sections and mandatory annexes to be provided

- **Business plan (mandatory annex)** - IF template highly recommended
- **Application Form Part B** - Financial maturity (section 4.2)
- **Financial Information File ('FIF') - (mandatory annex)** - To be filled with projections over expected project lifetime - includes the Relevant costs calculation, the grant disbursement schedule and the cost efficiency ratio calculation
- **Applicant's detailed Financial Model (mandatory annex)**- Project assumptions (i.e. with use of formulas, no hard coded figures, nor macros); funding sources and uses; forecasted P&L, cash flow and balance sheet statements, sensitivity analysis

# Financial Maturity - key documents (2/2)

## Relevant proposal sections and mandatory annexes to be provided

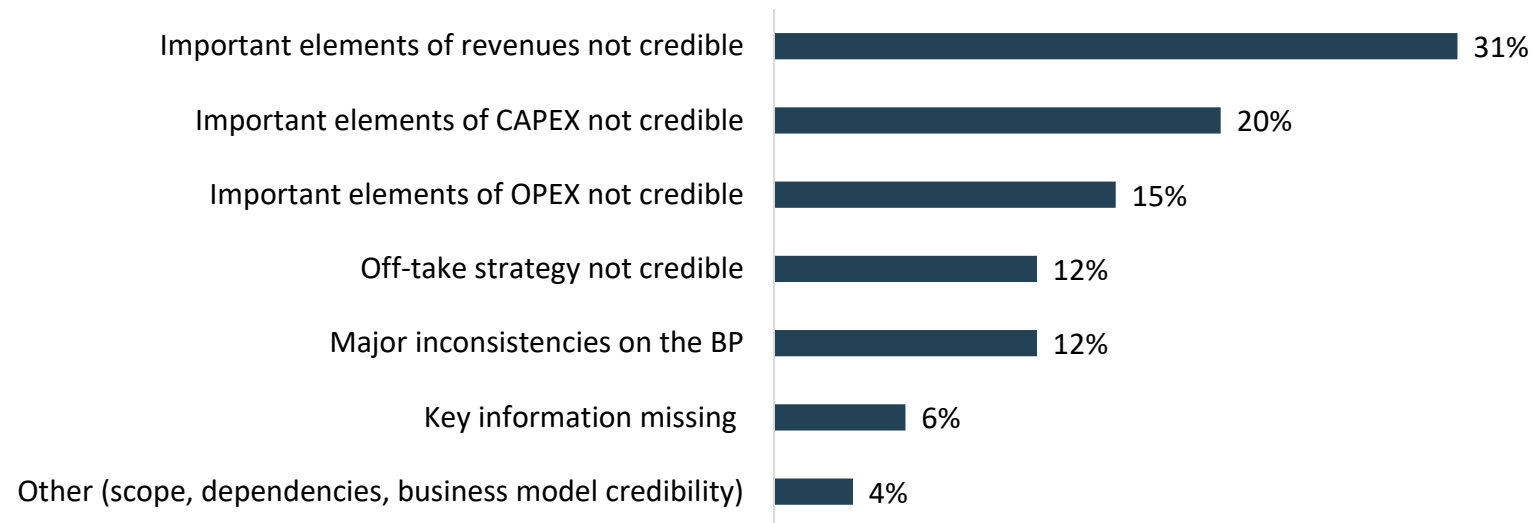
- **Project shareholders' financial resources (mandatory annex)** - Financial statements over last 3 years – further guidance in Annex 3
- **Project funding support (mandatory annex)** - Minimum requirements in call text Annex 3
- **Project contract terms (mandatory annex)**- Minimum requirements in call text Annex 3
- **Any existing due diligence report (optional - supporting document)**



# Lessons Learned IF24 Call

92 proposals (out of 291 proposals passing A&E) failed under Financial Maturity with 53 proposals failing on FM only (18% of evaluated proposals)

## Main issues related to the lack of credibility of the Business Plan

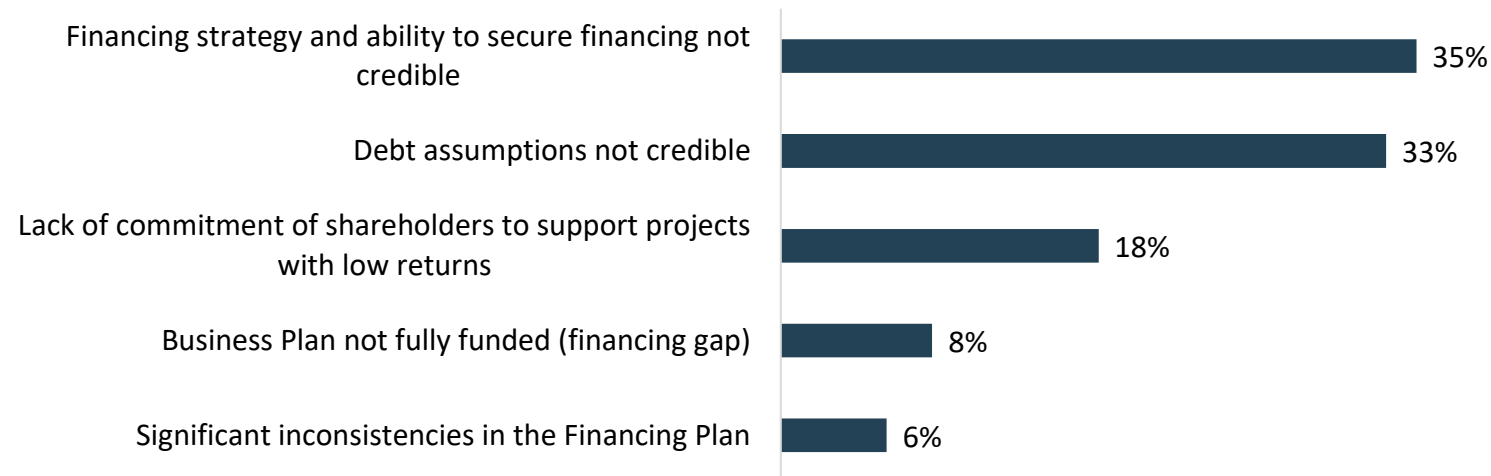


- Fully **describe, substantiate and evidence the main revenues, CAPEX and OPEX assumptions** and include a **detailed breakdown** for all assumption of the Business Plan
- See **Annex 3** of call text for minimum requirements on project contract terms

# Lessons Learned IF24 Call

92 proposals (out of 291 proposals passing A&E) failed under Financial Maturity with 53 proposals failing on FM only (18% of evaluated proposals)

## Main issues related to the lack of credibility of the Financing Plan



- Clearly **identify all funding sources** with their terms and conditions and the progress made in defining and/or negotiating them with funding counterparts.
- Provide **financial statements of the shareholder entities** and **evidence for debt assumptions**
- See **Annex 3** of call text for minimum requirements on project funding support



# 6 Golden Rules of Financial Maturity



# Operational Maturity

**Gianluca TONDI - CINEA**

# Operational Maturity

## Credibility and level of detail of the project implementation plan covering all project milestones & related deliverables

- Project milestones must include at least financial close, entry into operation and annual reporting after the entry into operation (guidance provided in the call text and application form Part B)
- Provide a clear timeline from signature of the grant agreement up to the end of the operation period; ensure consistency between the text in the application form Part B and the Gantt chart (mandatory annex)
- Key aspects: strategy to reach financial close and entry into operation; ensure adequate timing of planned activities during plant construction; regular operation of the technology during operation period
- The project implementation plan must be consistent with work packages, milestones and deliverables described in section 9 of the application form Part B
- Ability to reach entry into operation in line with market standards in the sector or faster



# Operational Maturity

**State of play and credibility of the plan for obtaining required permits, rights or licences, and other regulatory procedures**

Included a summary of the key information provided in the project description section of the feasibility study:

- Key aspects to be covered: detailed analysis of the regulatory framework; any intellectual property rights or licence; other relevant regulatory procedures; relevant permitting processes needed (including permits related to environmental impacts)
- State of play: description of permits already obtained and still needed and the plan for obtaining them, including timeline indicating the relevant permit application dates, expected reception dates and measures planned to ensure timely granting

# Operational Maturity

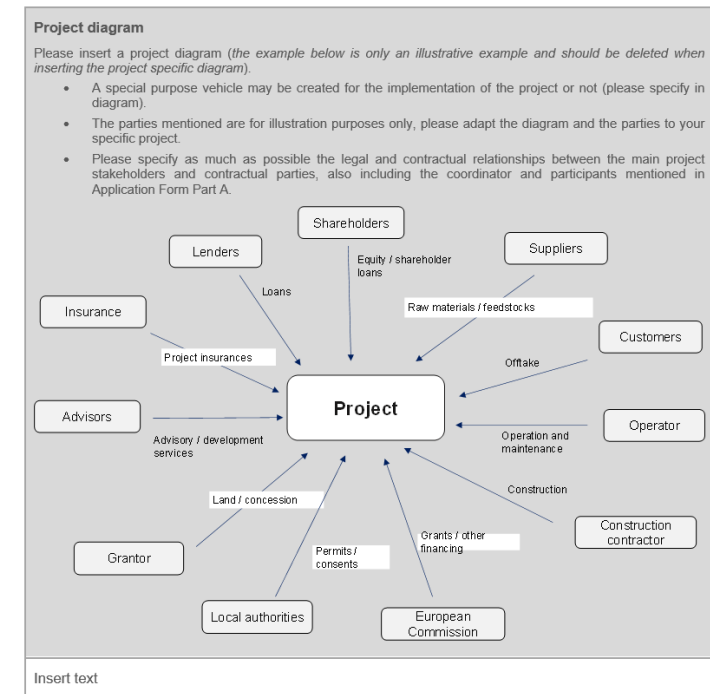
## Soundness of the public acceptance strategy

- Detailed description of all environmental impacts expected throughout the whole project life-cycle (from construction to operation to decommissioning), and associated mitigation measures
- Degree of public acceptance of the technology and the project
- Clear and specific steps planned be ensured public acceptance (please do not limit to generic explanations of the issue)

# Operational Maturity

## Relevance & track record of the project management team and soundness of the project organisation

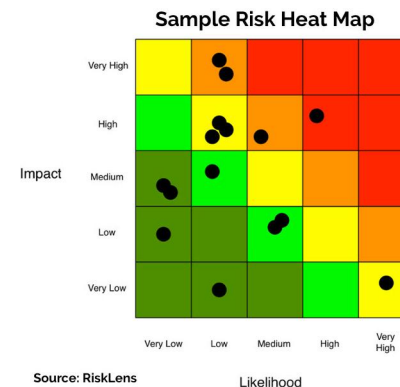
- Project management team, e.g.: key qualifications and track record; sufficient coverage of all necessary skills; provide justifications on the need for additional outside resources
- Project organisation, e.g. project management structure; governance, responsibilities and decision-making mechanisms and processes within the consortium; quality management, health and safety
- Provide a project diagram visualising the involved actors and organisation of the project



# Operational Maturity

## Operational risks and credibility of proposed mitigation measures

- Risks are included **only** in the Feasibility Study and Business plan (mandatory documents) which must:
  - Describe the main operational risks associated with the construction (for example timing), project design, operation (for example weather conditions) and decommissioning, or risks stemming from dependencies from other projects relevant to the project
  - Describe the impact if the risk materializes and the proposed risk mitigation measures and explain why they are suitable
  - Summarize your analysis in a table (see template)
  - Include a Risk heat map



# IF24 NZT Call results: Operational Maturity

19 proposals (out of 291 proposals passing A&E) failed under Operational Maturity

## ■ Project implementation plan

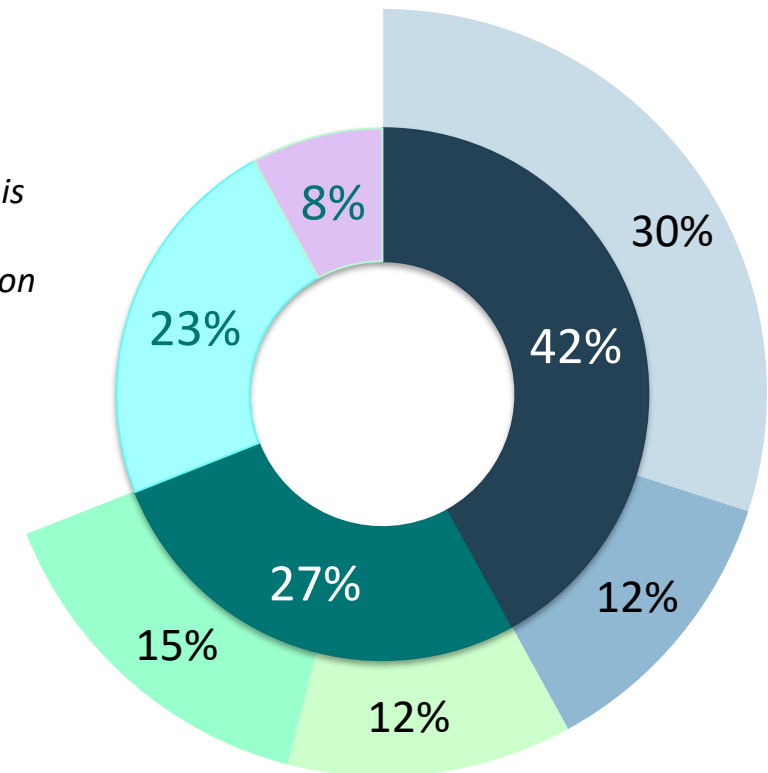
- **Work plan:** *Work package description does not cover all necessary engineering tasks for successful project implementation*
- **Timeline:** *The timing and duration of critical work packages are not compliant with the Call text, e.g. achievement of financial close before entry into operation is not considered; The Gantt Chart does not appropriately indicate the timeline for the tasks and there are inconsistencies regarding the timing of entry into operation*

## ■ Project management team and project organization

- **Project management team:** *The proposal does not demonstrate that the project management team has all the necessary skills to deliver the project*
- **Project organization:** *The project management structure is not convincing*

## ■ Permits, rights, licences and regulatory procedures and public acceptance

## ■ Operational risks and proposed mitigation measures



\*Several proposals failed under Operational Maturity criterion for more than one reason.  
The shown percentages are calculated vs the total number of Operational Maturity significant weaknesses.



# Lessons Learned: Operational Maturity

## Operations

Define solid **Work Packages** and **tasks**

Set clear and realistic **deliverables, milestones** and **means of verification**

Include relevant **operational risk** assessment in the Feasibility Study

Ensure availability of necessary know-how in the team

## Timeline

Ensure consistency between **Gantt** & tasks/ WPs (interdependencies)/ FiF

Consider realistic timing for:

- Construction and supply
- Obtaining permits, rights and licences
- Ensuring public acceptance
- Potential delays

## Clear Strategy

Clearly identify project parties and responsibilities

Clear **Role distribution**

**Link Work Packages** and corresponding **financial costs**

Set a clear strategy for:

- Construction, considering targets/ deadlines & needs
- Obtaining permits, rights and licenses for a defined location
- Ensuring public acceptance

**Provide contractual evidence:** letters of support, MoUs, indicative terms of agreement for off-take agreements, key suppliers, quotes from vendors, EPC parties



# Replicability

**Gianluca TONDI - CINEA**

# Replicability



- 4.1 – Replicability in terms of efficiency gains and multiple environmental impacts
  - Including Compliance with DNSH TSC criteria for environmental objectives other than 'climate change mitigation'
- 4.2 Contribution to Europe's industrial leadership and competitiveness
  - Including Knowledge sharing — Communication, dissemination and visibility

# Efficiency gains and environmental impacts

- Explain how the project addresses **possible resource constraints** through:
  - efficient use of resources
  - reduction in consumption of critical raw materials
  - sustainable biomass and other scarce resources
  - or other ways to address resource constraints in terms of efficiency, circularity, recycling and recyclability of such resources
- Describe the potential or the proposed solution to address **multiple environmental impacts** (for example, increasing biodiversity protection, reducing land, air and water pollution)



## Compliance with DNSH TSC criteria for environmental objectives other than 'climate change mitigation'

- Explain how compliance with the 'do no significant harm' technical screening criteria (TSC) set out in Annex II to Delegated Regulations 2021/2139 and/or 2023/2486 will be ensured for the environmental objectives other than 'climate change mitigation' and provide an outline of the plan how these criteria will be fulfilled (see Annex 4 of the Call document)
- **Note:** Compliance with the objective 'climate change mitigation' must be described in section 2.3 in part B



# Contribution to Europe's industrial leadership and competitiveness

- Contribution to new industrial ecosystems (e.g.: clusters, working with the European suppliers) and/or integration with strategic energy infrastructure (e.g.: projects connected to PCIs)
- Building the European know-how: creation and retention of intellectual property (IP) and technologies within the EU/EEA; cooperation with EU/EEA-based universities, research institutions and industry actors, capacity-building activities (e.g., trainings), knowledge sharing plan outline, demonstrated efforts on due diligence on the supply chain.

# Contribution to Europe's industrial leadership and competitiveness

- Where relevant:
  - mitigating critical dependencies and diversifying the sourcing of critical raw materials;
  - mitigating critical dependencies on final products or their main specific components from the third countries on which the EU has an identified dependency as identified in the Commission Communication (C/2025/3236) linked to the Net Zero Industry Act.
- For maritime sector projects, ability to strengthen the EU's maritime transport value chain, including port activities, increased competitiveness and job creation in the EU maritime sector, demonstrated coordination on the development of Green Corridors (see Glossary in call text)

# Knowledge sharing

## Communication, dissemination and visibility



### Knowledge sharing goals:



De-risking innovative low-carbon technologies with regard to wide-scale commercialisation



Acceleration of deployment



Increasing the undertaking of, and confidence in these technologies by the wider public



Maintenance of a competitive market for the post-demonstration deployment of the technologies

# Cost efficiency / Relevant costs calculation

**Annemarie COOLEN - CINEA**

# Cost efficiency award criterion

- **Cost efficiency is split in two sub-criteria:**
  - Cost efficiency ratio – automatic score
  - Qualitative assessment on the computation of Relevant costs and the Cost Efficiency ratio
- Cost efficiency ratio level has **minimum requirements**

## (a) for all topics (except Pilots):

If cost efficiency ratio is *lower than or equal to* **€200/tCO<sub>2</sub>eq**, score will be based on formula

$$12 - (12 \times (\text{cost efficiency ratio} / 200))$$

If cost efficiency ratio is *higher than* €200/tCO<sub>2</sub>eq, proposal will be **rejected** under 'Quality of the cost calculation and min requirements'

## (b) for Pilots:

If cost efficiency ratio is lower than or equal to **€2000/tCO<sub>2</sub>eq**, score will be based on formula

$$12 - (12 \times (\text{cost efficiency ratio} / 2000))$$

If cost efficiency ratio is higher than €2000/tCO<sub>2</sub>eq, proposal gets **zero score** under 'Quality of the cost calculation and min requirements' but is **NOT rejected**

# Cost efficiency ratio

**Requested Innovation Fund grant  
+ other public support**

=

**Absolute GHG emission avoidance**

During 10 years after entry into operation

Maximum requested IF grant  
is 60% of total relevant costs

Applicants choosing not to  
apply for the maximum  
grant will be more  
competitive when ranked  
against other applicants in  
'Cost Efficiency ratio'

# Relevant Costs: Definitions

**Relevant costs (“RC”)** = The Relevant Costs shall be the net extra costs that are borne by the project proponent as a result of the application of the innovative technology related to the reduction or avoidance of the GHG emissions.

*Relevant costs =*

*best estimate of CAPEX and NPV of OPEX, Maintenance CAPEX net of Revenues and Operational Benefits of the project over a 10-year period*



**The estimation of relevant costs should not include (examples):**

- Expansion Capex incurred after entry into operation
- Terminal Value
- Any costs incurred prior to Innovation Fund grant submission
- Depreciation

*Please refer to the **RC methodology** for full list of non-eligible items*



# Relevant Costs - what has changed?

- Clarification based on FAQ in the Helpdesk - for instance:
  - the duration of the financial projections – over expected project lifetime
  - rules on lease financing - applicable to all projects
  - treatment of revenue arising from decommissioning – if any during first 10 years of operation
- Additional guidance on boundaries for Relevant Costs calculation and revenue/cost assumptions for integrated projects
- Update of the list of other excluded items – for example:
  - Acquisition of producing assets/facilities commissioned and under operation before submission
  - In-kind contributions
- Update of definitions in Glossary definition (i.e. CAPEX, Lease, Operational Benefit, OPEX, Project lifetime)
- Simplification of the WACC computation
- Update on rules related to cumulation with other public support

# Weighted Average Cost of Capital (WACC)



- Cost of equity:

$$Re = Rf + (\beta * ERP) + IP$$

- $Rf$  = risk free rate
- $\beta$  = beta of the project
- $ERP$  = equity risk premium
- $IP$  = innovation premium

- Cost of debt:

$$Rd = \text{base rate} + \text{credit spread}$$

## Estimation

- **Rf**: use values in the RC methodology (appendix 2)
- **Beta** : fixed value of 1
- **ERP**: default value of 6% should be applied, with the potential for a +/- 2% adjustment if properly justified by applicants (lack of justification may be penalized)
- **Innovation premium**: default value of 2.5% should be applied, with the potential to increase to 3% upon justification for highly innovative projects (lack of justification may be penalized)
- Base rate: swap rates consistent with average debt maturity
- Credit spread: based on terms expected by debt providers, in line with market standards



# Bonus points 2 and 3

**Annemarie COOLEN - CINEA**

# Bonus point 2: SMEs

- Only for projects **coordinated and implemented by small and medium-sized enterprises** (SMEs)<sup>44</sup> as defined in the EU SME Recommendation 2003/361
- Application form, Part B, Section 6



# Bonus point 3: Maritime sector projects

**Only for projects in the maritime sector!**

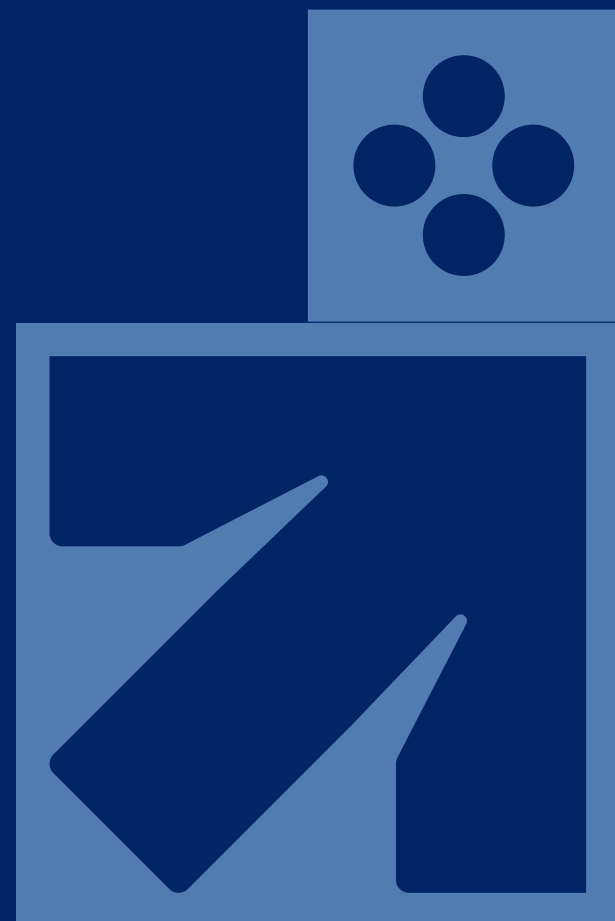
- Application form, Part B, Section 6
- Projects that have a demonstrated potential for decarbonising the maritime sector and reducing its climate impacts.

# Break!

**We continue at 10:30**



**BUSINESS  
FINLAND**

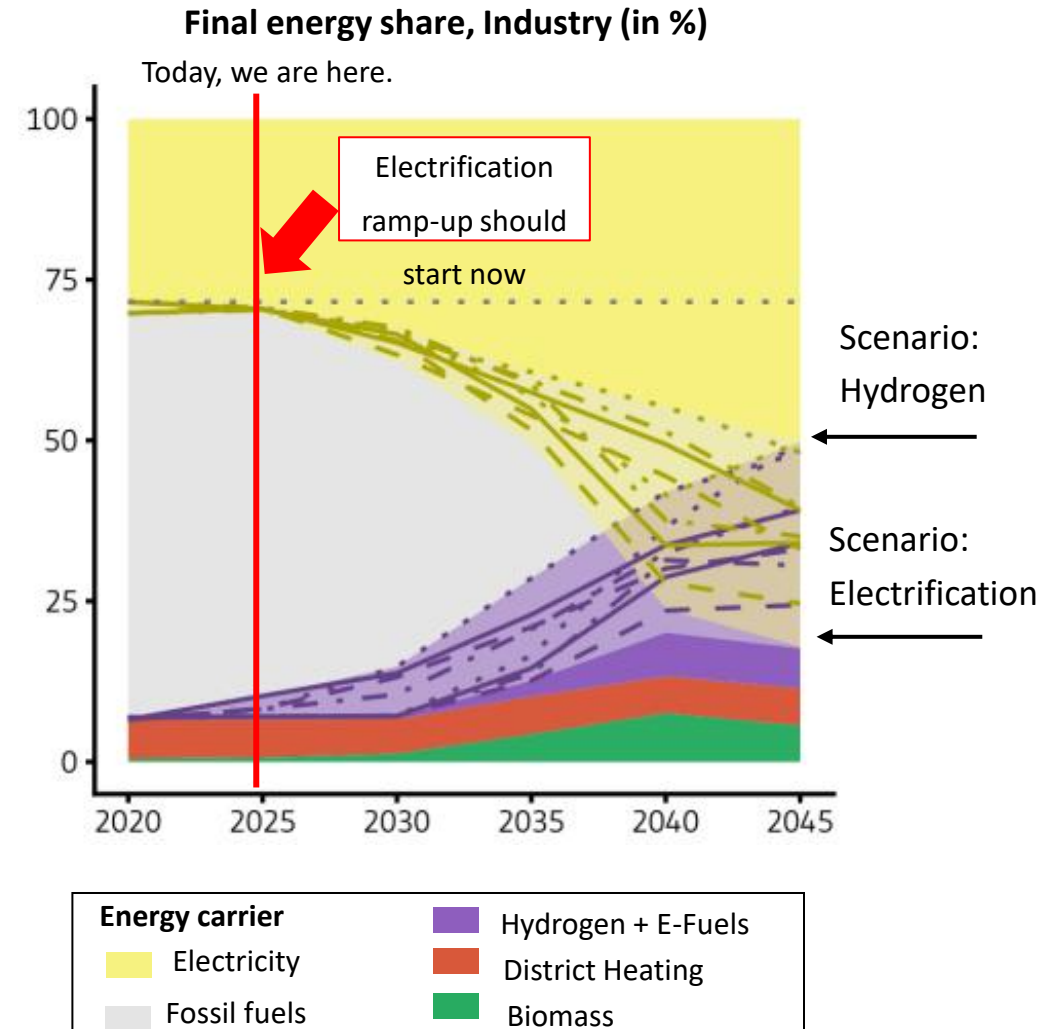


# Innovation Fund 2025 Heat Auction

Gianluca TONDI – CINEA

# Why decarbonisation of industrial process heat?

- Electrification: **main vector of industry decarbonisation by 2030** and beyond
- Industrial process heat today is **largely fossil fuels based**, only 4% of industry's energy needs for process heat are electrified
- **Cost gaps** compared with fossil-fuels-based technologies **hinder market ramp-up**
- Type of projects **underrepresented in IF portfolio**
- With such a large potential across the EU, applications are possible by companies of **all sizes, in all industrial sectors** and in **all EEA countries**



Data: Falko Ueckerdt et al. (2021): *Taking off despite uncertainties: Key points of an adaptable hydrogen strategy. How policymakers can find hydrogen pathways to climate neutrality by 2045. Ariadne policy brief*



# The heat auction in a nutshell



## Objectives:

- Reduce **GHG emissions cost-effectively** by supporting the **market ramp-up** of **industrial process heat decarbonisation technologies**
- Act as a pilot for the **Industrial Decarbonisation Bank** as announced in the Clean Industrial Deal



## Eligible technologies:

- Projects **that electrify industrial process heat** via technologies such as heat pumps, electric boilers, resistance heating, induction heating, plasma torches, electric shockwave heating
- Projects **that use direct renewable heat** (solar thermal and geothermal) for industrial processes
- **Hybrid projects** of the above-mentioned technologies

# Auction Topics and eligible activities

## Medium Temperature Small Scale

- € 150 Million + Spanish AaaS of € 30 Million
- $\geq 3 < 5 \text{ MW}_{\text{th}}$
- 100-400 °C
- €100 Million max grant amount

## Medium Temperature Larger Scale

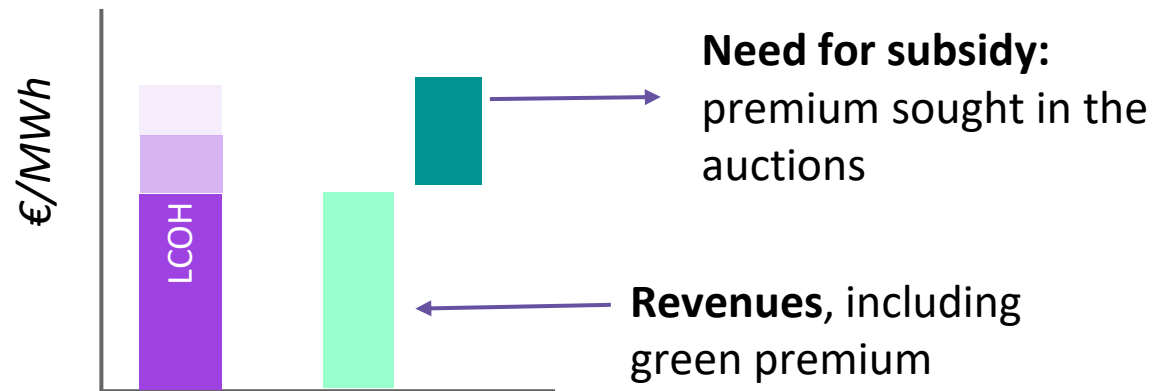
- € 350 Million + Spanish AaaS of € 20 Million
- $\geq 5 \text{ MW}_{\text{th}}$
- 100-400 °C
- €100 Million max grant amount

## High Temperature

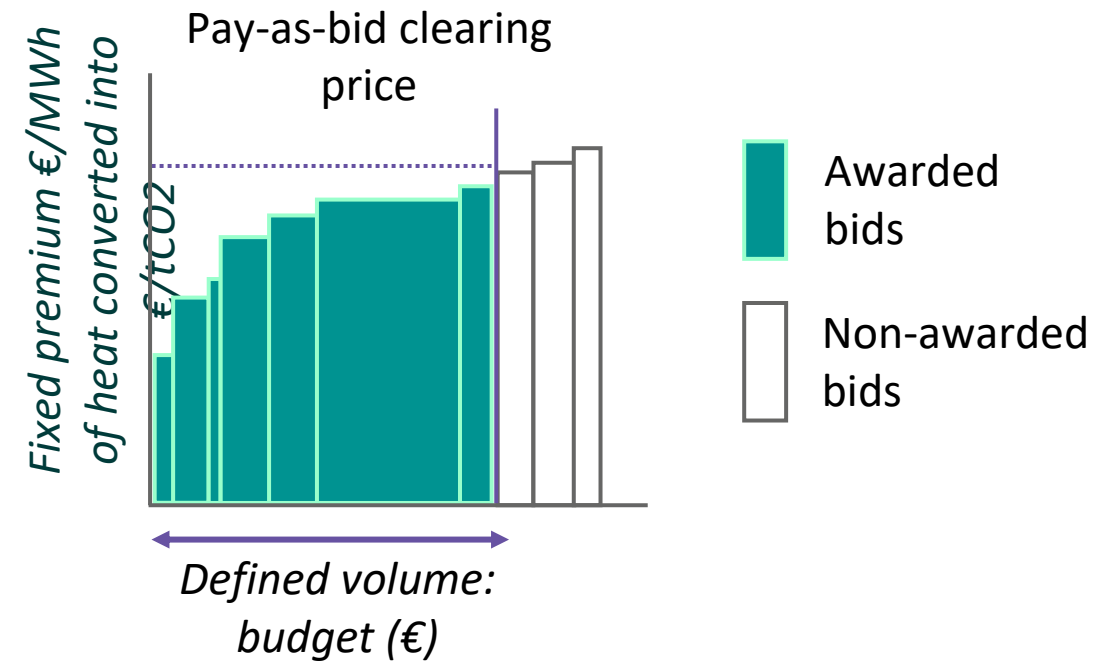
- € 500 Million
- $\geq 3 \text{ MW}_{\text{th}}$
- $> 400 \text{ °C}$
- €250 Million max grant amount

# Auction Design: (1) bid ranking

## Fixed-premium auction



Bids ranked on price only  
MWh of heat are converted into  $\text{tCO}_2$



# Auction Design: (2) qualifications

## WHAT

- **Admissibility**
- **Eligibility**
- **Relevance:** will the project produce decarbonized heat (with electrified or direct RES solution)? **Will it lead to the direct GHG abatement?**
- **No 'resilience' requirements** for heat equipment or components because no established dependencies (or risks)
- **Quality:** is the project sufficiently mature (basic technical, financial, and operational maturity checks)?
- **Do No Significant Harm (DNSH) check**

**NB: A financial capacity and legal entity check** will be carried out during grant agreement preparation to ensure that successful applicants can implement the project

# How to think about bid definition

- Bidders request a **fixed-premium** in EUR/tonne of CO<sub>2</sub> abated through electrified or direct renewable process heat technologies.
- The subsidy need (=the bid) is **determined by the bidder**. There are no restrictions on the level of the bid (i.e. no specific IRR or NPV; applicant's choice which costs to price in).
- A rational bidding strategy is to base the bid on the **gap between costs and revenues**.
- It is the responsibility of the bidder to submit a bid that is **competitive**, but **as high as needed to make the project financially viable**, given the completion guarantee, and rules on cumulation of support.
- There is **no automatic indexation of support**. Inflation, potential cost increases, foregone other public support etc. should be factored into the bidding strategy.
- The **bid defines the support that will be received** once project enters into operation



# Bid definition: Subsidy for GHG Abatement

**Project Input:**  
**€/MWh**

Automatic Conversion with  
**applicants choosing** either:

1. the **phase 4 ETS heat benchmark** (default) or
2. the **emissions factor** of the fuel replaced in the installation

**Bid:**  
**€/tCO<sub>2</sub>**

- Incentivises decommissioning of fossil fuel installations
- Choice of bidders
- Bidders must provide proof of decommissioning if selecting option #2

Natural gas	0.202 tCO <sub>2</sub> /MWh
Hard coal	0.341 tCO <sub>2</sub> /MWh
Lignite	0.364 tCO <sub>2</sub> /MWh
Heating oil	0.264 tCO <sub>2</sub> /MWh

# Bid definition: flexibility requirements

**Objective:** supporting electricity grid balancing and avoid emissions/system costs linked to peak hours – flexible demand or energy storage are encouraged.

## Option 1: Default

- Maximum payment equal to 70% of hours

## Option 2: Flexible Ramping Schedule

- Maximum payment equal to 80% of hours
- Indicate can follow a flexible ramping schedule
- Checked ex-post, penalties apply if not implemented

## Option 3: Energy Storage

- Maximum payment equal to 100% of hours
- Storage sufficient to replace electricity consumption from the grid for 4h by 20% within 1h
- Checked ex-ante only

## Option 4: Heat Pump/Direct Renewables

- Maximum payment equal to 100% of hours
- Heat Pumps with  $\text{CoP} > 2.0$ ; or
- Direct Renewable Heat

# Obligations

## Max time to reach Financial Close

- **2 years** after signing the Grant Agreement
- Demonstrating that all contracts are signed and conditions in them fulfilled
- To be **approved by the granting authority**
- **Sanctions:** the grant agreement terminated, calling the completion guarantee

## Max time to reach Entry into Operation

- **4 years** after signing the grant agreement.
- **Demonstrating as operational a nameplate thermal capacity** (and eligible temperature levels) for the equipment of at least 100% of that expressed in the bid.
- To be **approved by the granting authority**.
- Sanctions: the grant agreement terminated, calling the completion guarantee

## Reporting every 6 months after EiO

- **Direct or indirect measurement of industrial process heat volume and temperatures** according to ISO 50001 management system
- Automatic formula will translate it into the **GHG abatement**
- **Level of output should not decrease below 30% of expected annual volume (for 3 years in a row)**

# Application process – *How to apply & mandatory documents*

## All relevant information to apply:

- [EU Funding & Tenders Portal](#)
- [Application process video tutorials](#)
- [Financial Information File \(FIF\) tutorial](#)
- [How to fill in the PART C](#)
- [Info Day recording and slides](#)
- [Innovation Fund Helpdesk](#)
- [Q&A on the general design of the IF25 Heat Auction](#)
- [All the Call's relevant templates](#)

Programming period ▾

Innovation Fund (INNOVFUND) ▾

INNOVFUND-2025-AUC-HEAT ▾

Submission status ▾

All filters

3 item(s) found

Programme Innovation Fund (INNOVFUND) ⓧ

[Fixed Premium Auction for Industrial Process Heat Decarbonisation - Medium Temperature Heat - Above 5 MW](#)  
INNOVFUND-2025-AUC-HEAT-MEDTEMP-ABOVE5MW | Calls for proposals  
Opening date: 04 December 2025 | Deadline date: 19 February 2026 | Single-stage  
Programme: Innovation Fund (INNOVFUND) | Type of action: INNOVFUND Fixed Premium Auction Unit Grants

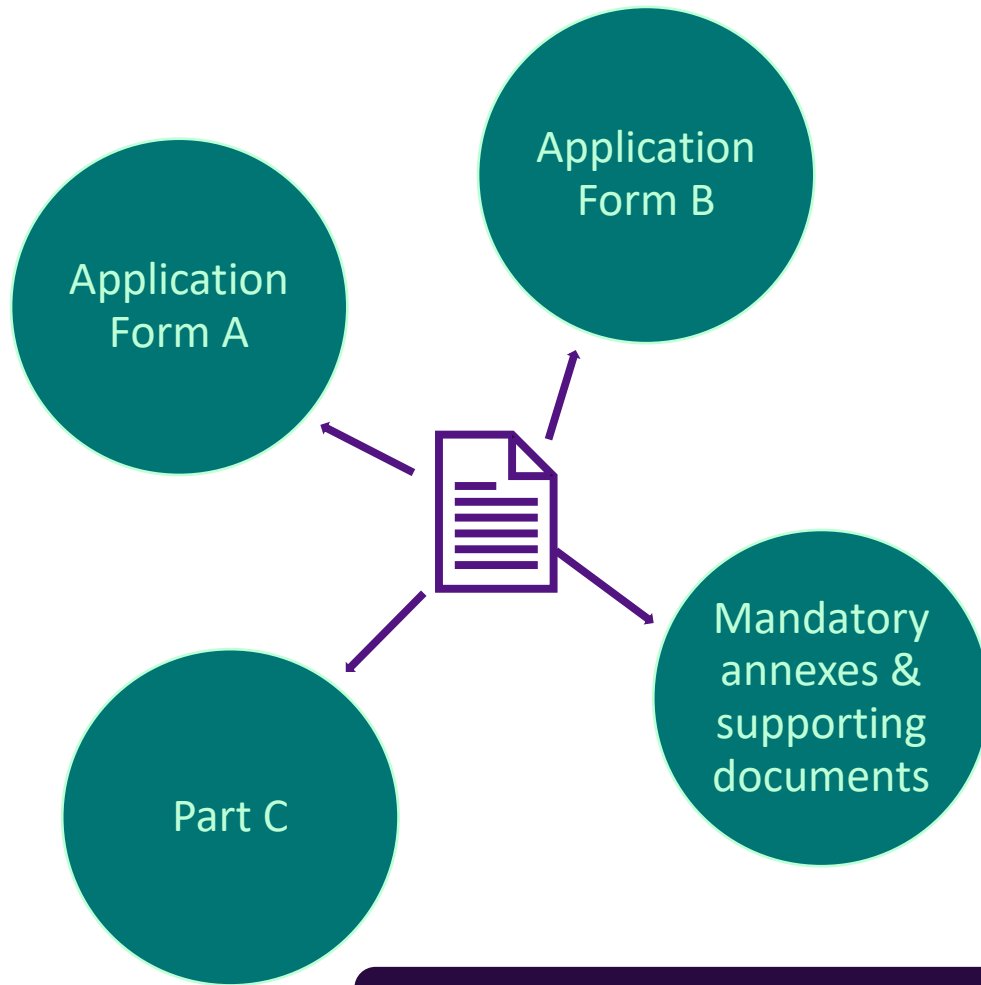
[Fixed Premium Auction for Industrial Process Heat Decarbonisation - High Temperature Heat](#)  
INNOVFUND-2025-AUC-HEAT-HIGHTEMP | Calls for proposals  
Opening date: 04 December 2025 | Deadline date: 19 February 2026 | Single-stage  
Programme: Innovation Fund (INNOVFUND) | Type of action: INNOVFUND Fixed Premium Auction Unit Grants

[Fixed Premium Auction for Industrial Process Heat Decarbonisation - Medium Temperature Heat - 3 to 5 MW](#)  
INNOVFUND-2025-AUC-HEAT-MEDTEMP-BELOW5MW | Calls for proposals  
Opening date: 04 December 2025 | Deadline date: 19 February 2026 | Single-stage  
Programme: Innovation Fund (INNOVFUND) | Type of action: INNOVFUND Fixed Premium Auction Unit Grants

**Call information**  
*on EU Funding & Tenders portal*



# Application process – *Compulsory documents*

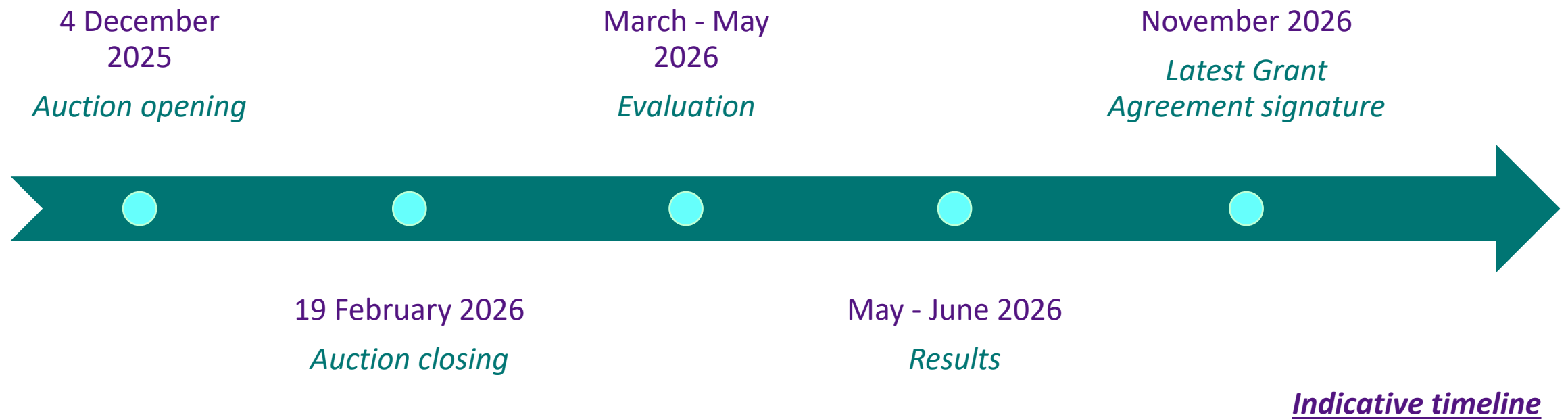


*Provide all mandatory annexes!*

- detailed budget table/calculator
- participant information
- timetable/Gantt chart
- feasibility study
- electricity sourcing supporting evidence
- off-take supporting evidence
- equipment procurement supporting evidence
- *equity supporting evidence*
- permits, licenses, authorisations, etc.
- completion guarantee letter of intent (at proposal) and completion guarantee (during GAP)
- extended Part C form
- other annexes only for projects that deviates for the Default ETS heat benchmark

*Templates to be downloaded from the Portal Submission System, completed, assembled and re-uploaded*

# Application process – *indicative timeline*



# Application process – Eligibility (1 / 2)

## *Eligible Activities*

Production of industrial process heat and resulting in GHG abatement by:

- Projects **electrifying industrial** process heat via technologies such as heat pumps , direct and indirect resistance heating, electromagnetic and dielectric heating, plasma heating; or
- Projects using **direct-renewable** (solar thermal or geothermal) heat for industrial heat processes ; or
- **Hybrid projects** of the above-mentioned technologies.

## *Not Eligible Activities*

- activities that do not comply with the ‘**do no significant harm**’ principle
- heat production for **space heating** or sale to **district heating**
- **biomass or hydrogen** use for industrial heat production
- **electrolysis processes** (e.g. in the aluminium sector)
- **electric arc furnaces for steel making**
- installation of **new fossil fuel-fired capacity** as part of the same installation as concerns the project (except glass furnaces or where technical/safety restrictions exist)

# Application process – *Eligibility (2 / 2)*

**Participants** - *legal entities established in any country in the world*

- Comply with EU restrictive measures
- Comply with EU conditionality measures

## **Geographic location**

Projects located in EU Member State or EEA country

## **Duration**

- Reach Financial Close within 2 years after the GA signature
- Entry into Operation within 4 years after the GA signature
- Operate for normally 5 years

## **Project's budget & bid price**

- Project budgets (requested grant amount) and applicant bid price must be calculated using the calculator provided in the 'financial information file'
- Project's budget must not exceed the topic thresholds in the call

## **Completion Guarantee & Letter of Intent**



# The completion guarantee

- **Letter of Intent** for completion guarantee to be submitted with the proposal
- **6% of the maximum grant amount** in EUR
- **Guarantee** to be issued two months after receiving the evaluation results
  - The guarantee should be issued by an approved bank/financial institution established in an EEA (with adequate rating)
  - The guarantee shall be valid from the date of issuance until **6 months after the maximum time to EiO**
- For Lol and the guarantee itself, a **template will be made available and will be mandatory**
- If EiO is reached earlier, the guarantee can be released earlier

- When **will** the **completion guarantee** be **called** by the granting authority?

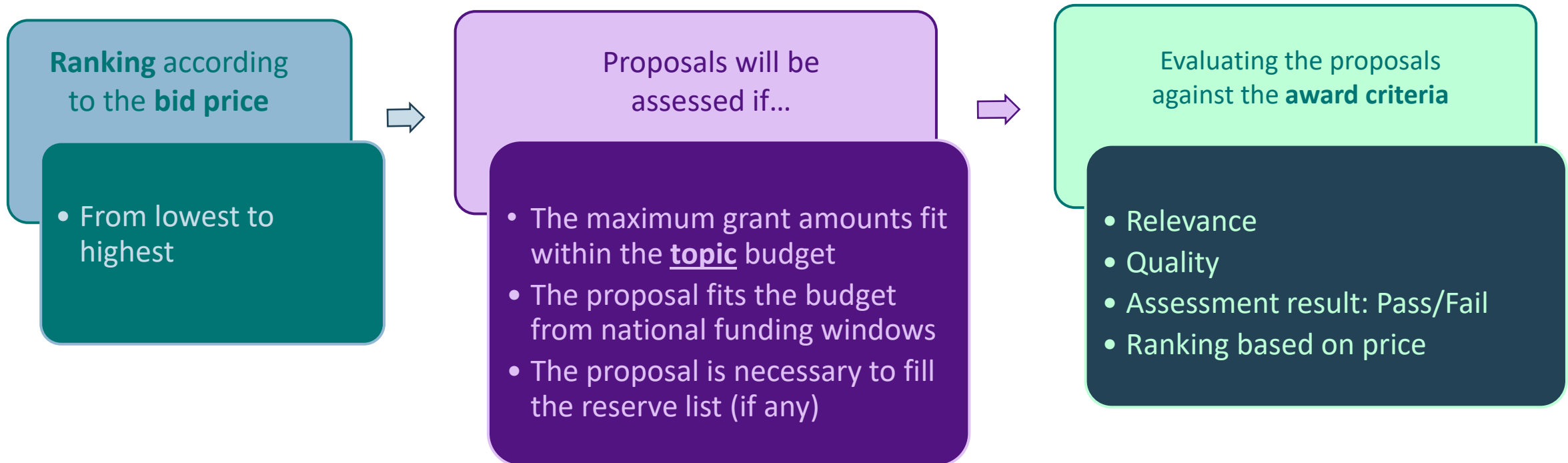
- if the project does not reach entry into operation within 4 years (after signing the grant agreement)

The Guarantee **may be called**

if the project does not reach financial close within 2 years

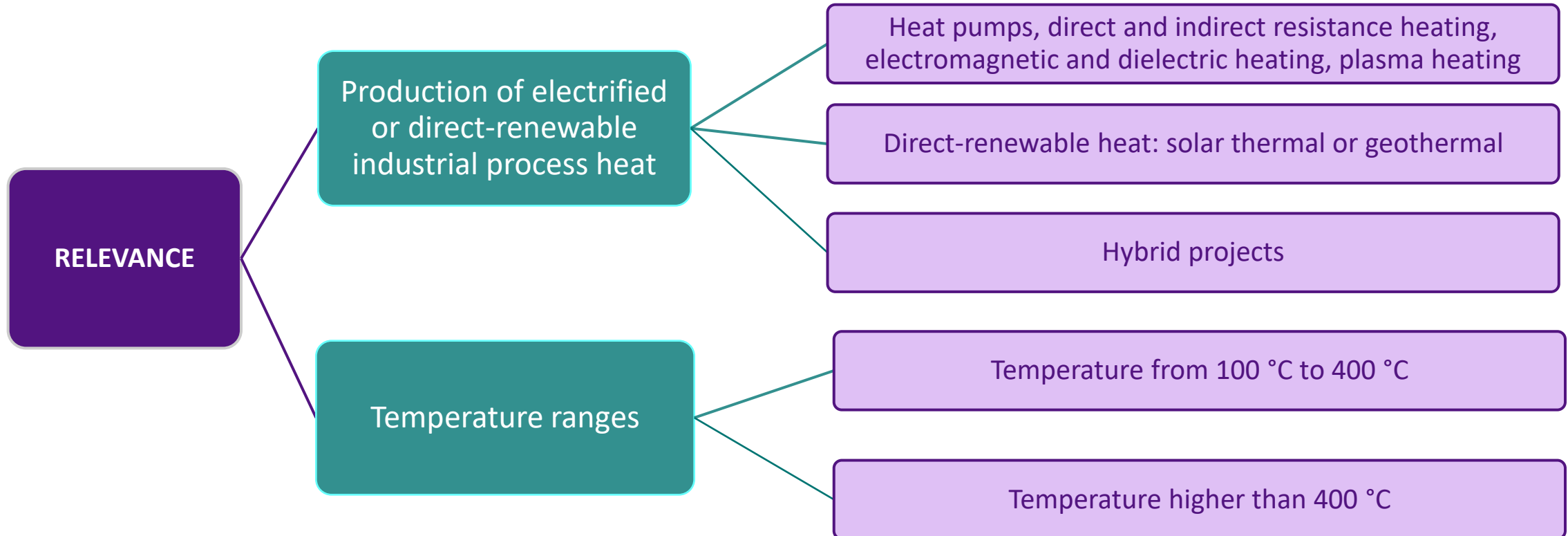


# Evaluation - Evaluation & award procedure (cascade approach)

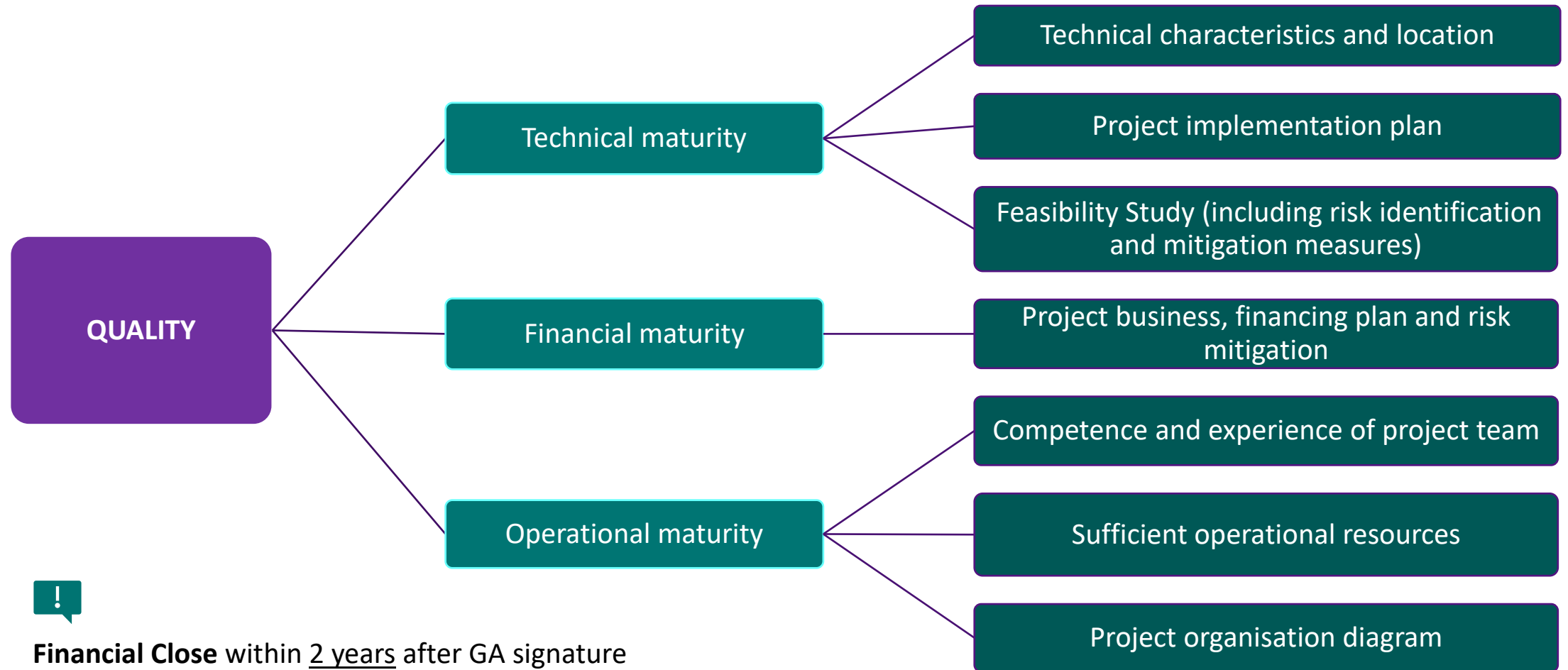


The first proposal proposed for funding ('marginal bid') exceeding the call/topic budget will be added to the reserve list and the total auction budget volume will be decreased accordingly.

# Award criteria – Relevance



# Award criteria – Quality



**Financial Close** within 2 years after GA signature

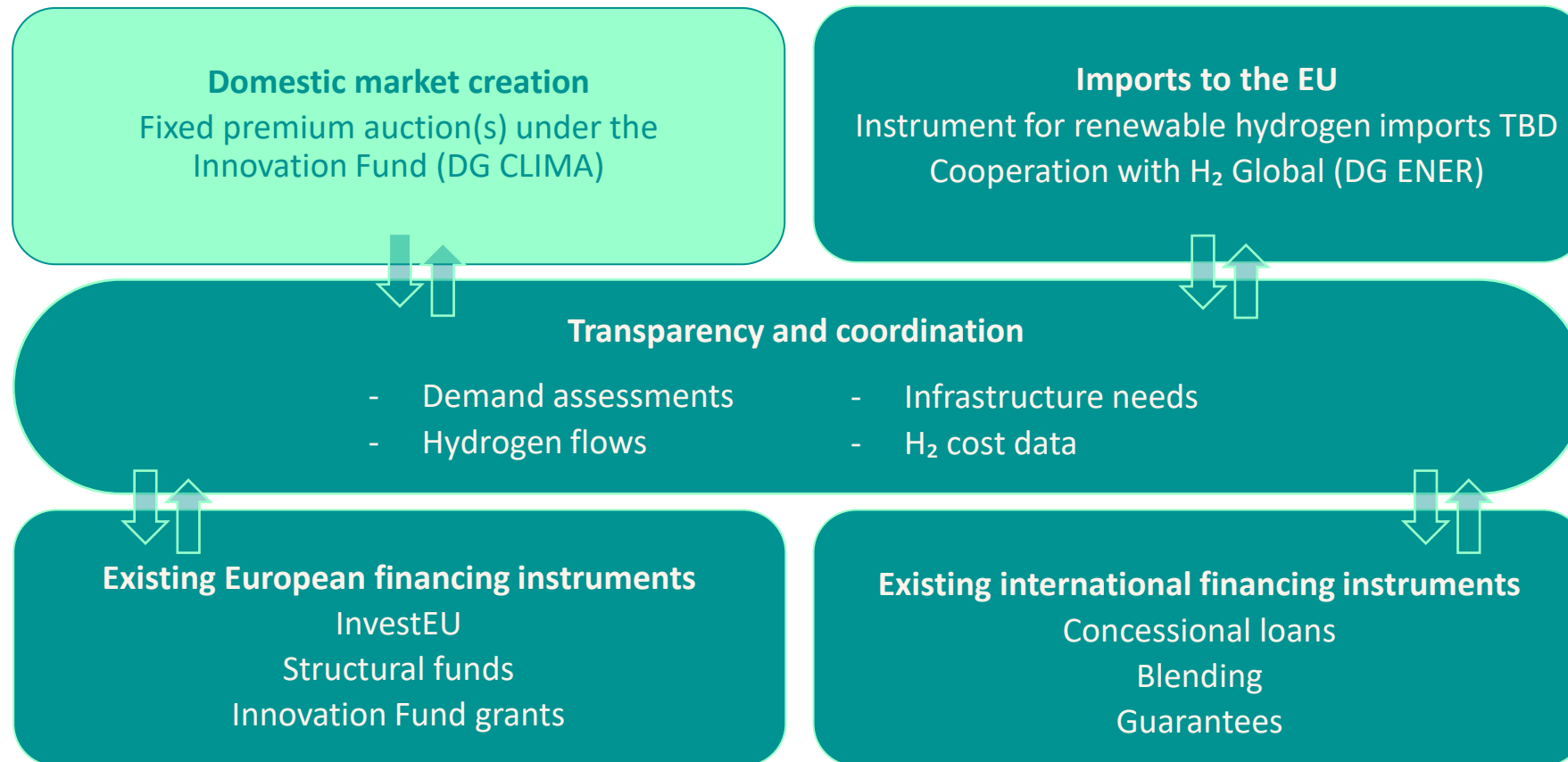
**Entry into Operation** within 4 years after GA signature



# Innovation Fund 2025 Hydrogen Auction

Rowan STEELE – DG CLIMA

# The European Hydrogen Bank - Overview



# Innovation Fund Hydrogen Auction objectives

Putting Europe's net-zero industry in the lead:



**Reducing the cost gap** between renewable and fossil hydrogen in the EU



Allowing for **price discovery** and renewable hydrogen **market formation**



**De-risking** European hydrogen projects



**Reducing administrative burden**

# IF H2 Auctions so far

2023

## IF23 Auction [Pilot]

- € 800 M
- RFNBO Hydrogen
- 1 topic - general

- 132 proposals received
- 6 awarded projects

2024

## IF24 Auction

- € 1 200 M
- RFNBO Hydrogen
- 2 topics:
  1. General (€ 1 000 M)
  2. Maritime (€ 200 M)

- 61 proposals received
- 15\* pre-selected projects

*7 projects withdrew and 10 additional ones from reserve list invited*

2025

## IF25 H2 Auction

- € 1 300 M
- RFNBO and ELC Hydrogen
- 3 topics:
  1. General RFNBO (€ 600 M)
  2. General RFNBO & ELC (€ 400 M)
  3. General RFNBO & ELC for Maritime & Aviation (€ 300 M)



# The IF25 Hydrogen Auction: Overview

Production of Hydrogen in Europe - EUR 1.3 Billion

## Topic 1:

- Budget: **EUR 600 M**
- Product: **RFNBO H2**
- Off-takers: **no restriction**

## Topic 2:

- Budget: **EUR 400 M**
- Product: **RFNBO H2 and Electrolytic Low Carbon H2**
- Off-takers: **no restriction**

## Topic 3:

- Budget: **EUR 300 M**
- Product: **RFNBO H2 and Electrolytic Low Carbon H2**
- Off-takers: **Restricted to aviation or maritime off-takers**

# General eligibility conditions

- Location of the project: **within the EU/EEA** (no virtual production)
- Installed capacity: **min. 5 MWe, new capacity, single location** (no virtual capacity pooling)
- **Projects must** limit the sourcing of electrolyzers and its components from China
- Off-takers: **restrictions depending on the topic**
- Bid ceiling price: **€ 4 / kg RFNBO or Electrolytic Low Carbon Hydrogen (ELC)**
- Maximum size of the grant: **Topic budget for all topics**



# Key implementation arrangements

- Financial close: **within 2.5 years** after signing Grant Agreement
- Entry into Operation (EiO): **within 5 years** after signing Grant Agreement
- Completion guarantee: **8%** of the requested grant - *covers reaching Financial Close & EiO under the call requirements*
- Payments: no payments before EiO; then, **biannual** basis - €/kg of Hydrogen produced, **certified & verified (RFNBO and/or ELC)** for a maximum period of **10 years**



# Key implementation arrangements <sup>2/2</sup>

- Production requirements: semi-annual production may be increased to **up to 140%** of planned. Total grant amount cannot be increased. Production of volumes that are part of the bid **cannot fall < 30%** of planned production for more than 3 rolling consecutive years
- Compliance with the criteria during implementation: for Topic#3, monitoring of aviation-maritime off-takers, resilience criteria, and certification of 70% GHG savings on overall production
- Cumulation with other public funding: limitations apply

# New: Electrolytic Low Carbon Hydrogen

- *The adoption of the Delegated Act (EU) 2025/2359 now provides a clear methodology to certify and verify the production of low carbon hydrogen. For the IF25 H2 Auction, eligibility is limited to low carbon hydrogen that is produced from an electrolyser.*
- This product will only be eligible for projects applying into **Topics 2 and 3**. Projects applying to Topic 1 can still produce non-RFNBO H2, but will receive no payments for it.
- Definition of Low Carbon Hydrogen (DIR(EU) 2024/1788): *“means hydrogen the energy content of which is derived **from non-renewable sources**, which meets the **greenhouse gas emission reduction threshold of 70 %** compared to the fossil fuel comparator for renewable fuels of non-biological origin set out in the methodology for assessing greenhouse gas emissions savings from renewable fuels of non-biological origin and from recycled carbon fuels, adopted pursuant to Article 29a(3) of Directive (EU) 2018/2001”*

# New: Electrolytic Low Carbon Hydrogen

- There will be a **single bidding price** covering ELC and RFNBO hydrogen volumes
- At application stage, the **electricity sourcing strategy** will need to demonstrate that the project will be able to produce electrolytic low carbon hydrogen with the installed capacity of the electrolyser that will comply with the minimum emissions thresholds of the definition of Directive 2024/1788 and following the GHG calculation methodology of its Delegated Act.
- During implementations, **sub-volumes of ELC and RFNBO hydrogen** may vary, as long as the total volume of hydrogen produced respects the production requirements.
- Payments will only be received upon **certified and verified volumes**. Voluntary Schemes for low carbon fuels are expected to be ready during 2026.



# New: Resilience Criteria

*The adoption of NZIA Implementing Act (REG (EU) 2025/1176 creates reference pre-qualification and award criteria for auctions for the deployment of energy from renewable sources, including resilience contribution criteria for electrolyzers. The IF25 H2 Auction is now fully aligned with NZIA requirements.*

- At least **75% of the electrolyzers** included in the project must originate in a country different than China. For those at least 75% of the electrolyzers:
  - **stacks** must originate in a country different than China
  - no more than **two of main specific components** may originate in China (stacks cannot count for these two components).
- Simplification: In IF25 H2 Auction, **no ISO standards** are required anymore and the information requested from the electrolyser manufacturer has also been simplified (e.g no information CRM content

# New: Resilience Criteria

- **Cybersecurity requirements:** are now fully aligned with NZIA's IA.
  - Project to explain how it will comply with **security by design** requirements
  - **Operational control of the installation established in the EEA:** the operational control of the electrolyser must be carried out by an entity established in the EEA.
  - **Data stored and processed within the EEA:** the project's data is stored and processed either on the project/company own server in their premise in EEA or on the cloud but, in this case, the data centre serving this cloud has to be in the EEA.
- Reminder of existing rules under **the Foreign Subsidy Regulation (FRS), State aid and Trade Defence Instruments (TDI)**
  - **FRS:** Investigations to companies established in the EU that might have received foreign subsidies, which could distort the competition in the internal market
  - **TDI:** Investigations to unfair trade practices focusing on companies established outside the EU (e.g. subsidy schemes, dumping practices affecting all sector etc.)



# New: Aviation and Maritime topic

*The Sustainable Transport Investment Plan (STIP) adopted in November 2025, announced that the Innovation Fund would open under its European Hydrogen Auctions a dedicated EUR 300M topic to hydrogen producers supplying to aviation and maritime off-takers.*

- Projects applying to **Topic 3** must supply **at least 60% of the expected total volume** of hydrogen production that is part of the bid to **off-takers** belonging **either** to the **maritime or aviation sector**.
- At application stage, the off-take strategy must credibly demonstrate that the project will comply with this requirement. The required **Head of Terms with off-takers** must include a **self-declaration** from the off-taker confirming that they belong to the maritime or aviation sector together with documentation supporting it.
- **Monitored throughout the project's operation**

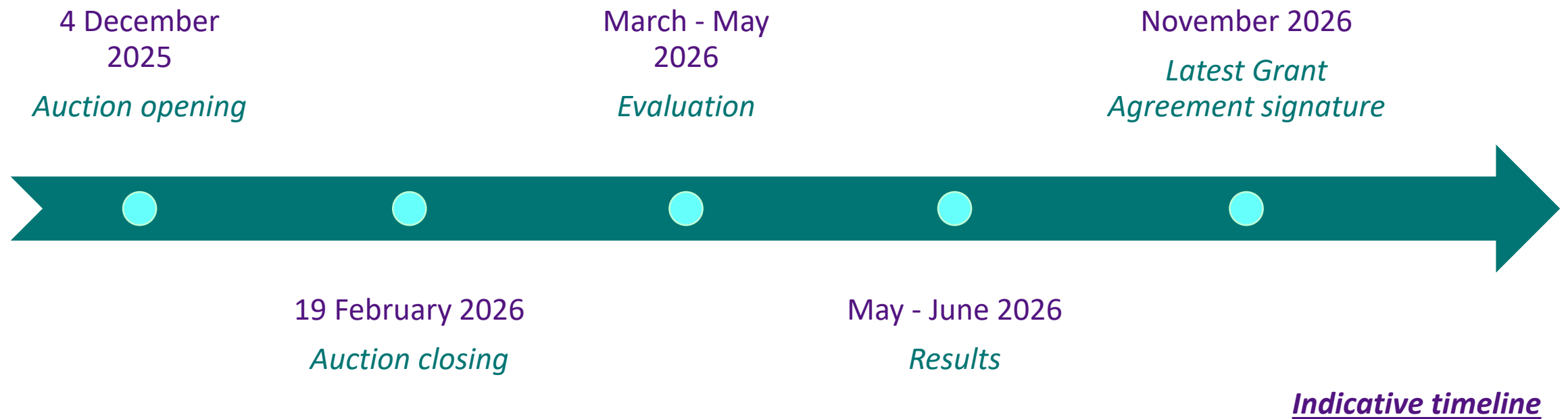
# New: Financial Maturity requirements

*Based on the experience of previous auctions, we want to ensure higher levels of information concerning the financial maturity of the projects at application stage.*

- More substantiated information for the progress **financing and business plan**.
- More detailed information about **understanding of risks of credible mitigation measures**, particularly concerning infrastructure the project may be dependent on.
- commitment from main project sponsors - through **MoU/Letter of Intent** from **Equity Providers**



# Application process – *Scope & indicative deadlines*



# Application process – *How to apply & mandatory documents*

## All relevant information to apply:

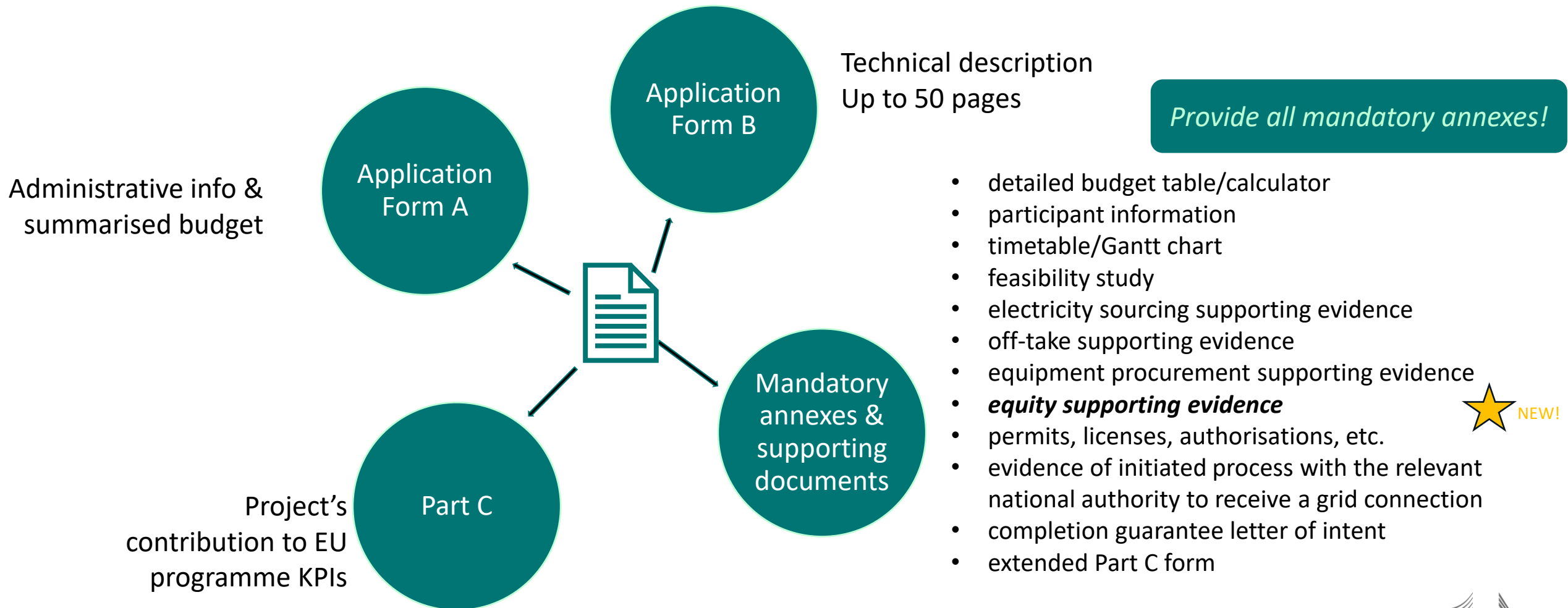
- [EU Funding & Tenders Portal](#)
- [Application process video tutorials](#)
- [Financial Information File \(FIF\) tutorial](#)
- [Info Day recording and slides](#)
- [Innovation Fund Helpdesk](#)
- [Q&A on the general design of the IF25 Hydrogen Auction](#)
- [All the Call's relevant templates](#)

Innovation Fund (INN... ▾	Programme Innovation Fund (INNOVFUND) ×
Call ▾	<a href="#">Fixed Premium Auction for RFNBO hydrogen production</a> INNOVFUND-2025-AUC-H2-RFNBO-GENERAL   Calls for proposals Opening date: 04 December 2025   Deadline date: 19 February 2026   Single-stage
Submission status ▾	Programme: Innovation Fund (INNOVFUND)   Type of action: INNOVFUND Fixed Premium Auction Unit Grants
All filters	<a href="#">Fixed Premium Auction for RFNBO and/or electrolytic low-carbon hydrogen production</a> INNOVFUND-2025-AUC-H2-RFNBOLOWCARB-GENERAL   Calls for proposals Opening date: 04 December 2025   Deadline date: 19 February 2026   Single-stage
	Programme: Innovation Fund (INNOVFUND)   Type of action: INNOVFUND Fixed Premium Auction Unit Grants
	<a href="#">Fixed Premium Auction for RFNBO and/or electrolytic low-carbon hydrogen production for the maritime and aviation sectors</a> INNOVFUND-2025-AUC-H2-RFNBOLOWCARB-MAR-AVI   Calls for proposals Opening date: 04 December 2025   Deadline date: 19 February 2026   Single-stage
	Programme: Innovation Fund (INNOVFUND)   Type of action: INNOVFUND Fixed Premium Auction Unit Grants

**Call information**  
*on EU Funding & Tenders portal*



# Application process – *Compulsory documents*



*Templates to be downloaded from the Portal Submission System, completed, assembled and re-uploaded, templates cannot be modified.*



# Call & assessment structure

## RELEVANCE

*(pass/fail)*

- Contribution to **objectives of the call**
- Achieving **security of supply of essential goods & contribution to Europe's industrial leadership & competitiveness**

## QUALITY

*(pass/fail)*

- Technical maturity
- Financial maturity
- Operational maturity

## RANKING



- according to the bid price (€/Kg H<sub>2</sub>)
- within the limits of the available budget

## Mandatory annexes

1. Detailed budget table/ calculator
2. Participant information
3. Timetable/ Gantt chart
4. Feasibility Study
5. Sourcing strategy - Electricity sourcing supporting evidence
6. Off-take strategy - Hydrogen off-take supporting evidence
7. Procurement strategy - Electrolyser procurement supporting evidence
8. **Support to project - Equity supporting evidence**
9. Environmental permits –evidence of initiated process
10. Grid connection permits –evidence of initiated process
11. Completion guarantee letter of intent
12. Extended part C form

# Other application requirements <sup>3/3</sup>

## DECLARATIONS



NEW!

### *Resilience*

We confirm that we will ensure that at least 75% of the electrolyzers included in the project of the bid will originate from a country different than China and that we will respect the limitations on the origin of the specific components, as required in sections 2 and 9 of the Call document.

### *Cybersecurity*

We confirm that we will ensure that the project will comply with the cybersecurity and data security criteria, set out in Articles 5 (a) to (d) and 16 of Implementing Regulation 2025/1176 as required in sections 2 and 10 of the Call Document



NEW!

### *DNSH*

We confirm that the project will comply with the 'do no significant harm' technical screening criteria (TSC) set out in Annex II to Delegated Regulation 2021/2139 and/or 2023/2486.

We acknowledge and confirm that we will comply with these requirements throughout the project implementation and that in case of breach, we understand that the grant may be terminated and reduced or any other measure described in Chapter 5 of the Grant Agreement may be taken.

# Next Events



Jan/Feb 2026 – National Info Days: [More information](#)



***SAVE THE DATE***

***2026 Cleantech Conference***

*19 May 2026 | Brussels, Belgium*

# Sign up as an EU expert

## for the INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality



## Become a project evaluator for the Innovation Fund

Technical experts  
Financial experts  
GHG experts  
Rapporteurs

*Sign up as an expert ([europa.eu](https://europa.eu/IRTnFrw))*

More information here:



<https://europa.eu/IRTnFrw>



# Stay informed



[clima-innovation-fund@ec.europa.eu](mailto:clima-innovation-fund@ec.europa.eu)  
[cinea-communication-if@ec.europa.eu](mailto:cinea-communication-if@ec.europa.eu)



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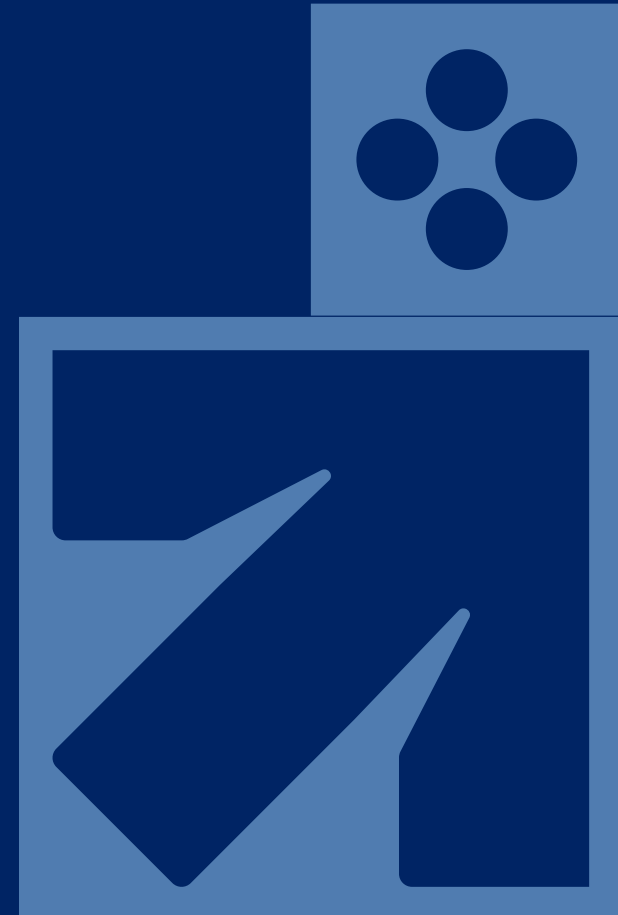
**BUSINESS  
FINLAND**

# **INNOVATION FUND Project Development Assistance (PDA)**

**Wassim Semaan**  
**Sr. Sector Engineer, European Investment Bank**

**Tasos KATSIKAS**  
**Sr. Officer, Advisory, European Investment Bank**

 **22.1.2026, Helsinki**





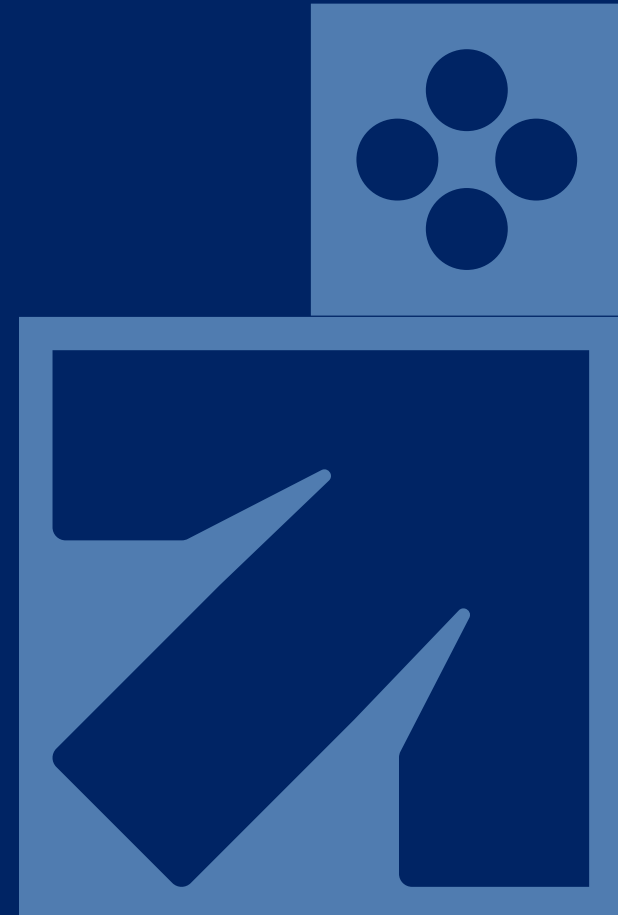
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# **SYNERGIES WITH HORIZON EUROPE**

## **Clean Industrial Deal Calls**

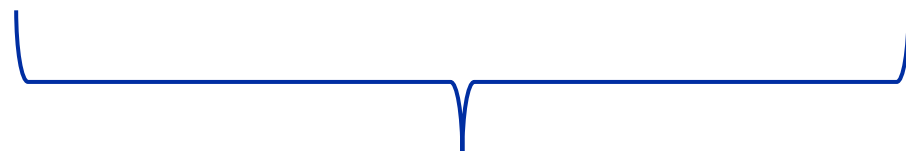
**Emmi Nahi**  
**Senior Advisor**  
**Enterprise Europe Network, Business Finland**

 **22.1.2026, Helsinki**

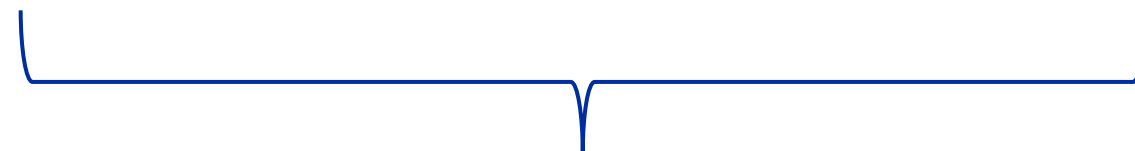




**INNOVATION FUND**



**HORIZON EUROPE**



**INVEST EU & CEF**

# THE WORLD'S LARGEST RDI FUNDING PROGRAMME

- ✓ ~ € 95.5 billion for 2021 -2027
- ✓ **Funding and opportunities:**
  - for different purposes
  - for different actors, in different roles
  - different themes and open calls
- ✓ **Research, innovations** and solving global challenges **together with international partners**
  - >5 million EUR per project, minimum requirement 3 partners from 3 EU Member States or Associated Countries
- ✓ **Cooperation, networks, customers, markets**
- ✓ European added value & competitiveness & wellbeing: **strategic policy priorities** for thematic actions



# CLEAN INDUSTRIAL DEAL CALL TOPICS

## WHAT?

Horizon Europe Innovation Action:  
**last stages of development**

Goal: support a new generation of  
**“fit-for-deployment” clean tech,  
clean energy & net-zero  
manufacturing solutions**

Approach: **bottom-up,  
industry-led** – companies in the  
lead, solutions defined by market  
needs

## HOW?

Joint call under Cluster 4 (Digital, Industry and Space) and Cluster 5 (Climate, Energy and Mobility)

2 topics and 2 rounds of calls with the same goals in 2026 and 2027

- **2026: Open 18.12.2025 // DL 15.9.2026**
- **2027: Open 12.1.2027 // DL 15.9.2027**

125-150 Meur budget per call topic

8 projects to be funded per call topic

# TOPIC 1: DECARBONISATION OF ENERGY-INTENSIVE INDUSTRIES

**Large industrial demos of decarbonisation solutions in Europe**

Goal: make EU a **competitive, climate-neutral base** for energy-intensive industries

Targeted areas (1 MAIN, can combine)

- **CCU/CCUS**
- **Clean energy in production** (electrification, renewables, clean hydrogen)
- **Circularity & resource efficiency** (materials, energy, water)

What the project must show:

- **Real industrial operation**, not only lab/pilot
- **Low-carbon products** that are **cost-competitive**
- **First-of-a-kind demo** or major upgrade of new decarbonisation assets in the EU
- Clear **business case + plan to industrialise and scale** (use cases, customers, exploitation strategy)

[Link to the call topic](#)

# TOPIC 2: CLEAN TECHNOLOGIES FOR CLIMATE ACTION

## Decarbonise industry and energy systems

Large demo of **innovative clean tech** in ONE main area (can combine):

- **Net-zero energy systems & grids**
- **Zero-emission / renewable power & heat**
- **Storage, renewable fuels & CCU** (batteries, H<sub>2</sub>, advanced biofuels, synthetic fuels, CCU)

What the project must show:

- **More circularity:** higher circular material use (with baseline)
- **Lower costs:** clear **LCOE reduction** (incl. production / distribution / storage, different EU geographies)
- **Industrial leadership:** supports **NZIA** and **EU net-zero manufacturing capacity**
- **Market-ready tech:** full technological maturity, **close to deployment** in energy/transport/manufacturing

# CID VS. “STANDARD” IA CALLS

## CID projects are closer to market

- Focus on full technology maturity, first-of-a-kind large demos (but not yet full commercial roll-out)
- Emphasis on deployment and bankability, not R&D

## Strong industrial & policy anchoring

- Projects must support Net-Zero Industry Act and EU clean tech manufacturing capacity
- Clear contribution to EU industrial leadership, resilience and competitiveness

## Industry-driven, focused value chain & business case

- Industry-led consortia, ≤10 partners, built around a specific clean tech value chain
- Clear business case, market-uptake and investment path (e.g. Innovation Fund)
- More targeted commercialisation & scale-up projects than a broad R&I collaboration

## Regular Horizon Europe IA logic and criteria apply

# THANK YOU!



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**Next: Optional self-paid lunch**

**13:00 onwards: pre-booked bilateral meetings with  
CINEA**

**Room: Moreeni (right next to this room)**

 **22.1.2026, Helsinki**

