

Innovation Fund

Roman Doubrava Head of Unit – Innovation Fund – CINEA.C4

24 October 2024

CINEA in a Nutshell



~ EUR 65 billion for the period 2021-2027

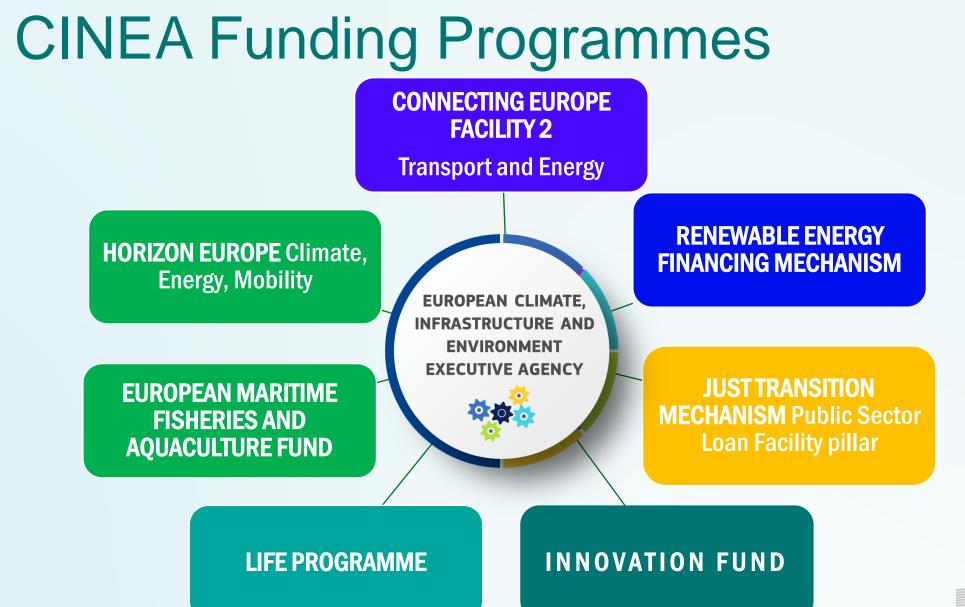




from 3000+ projects managed in 2023 to > 4000+ projects by 2027

- Experts at the service of
 beneficiaries in managing
 complete lifecycle of projects
- **Policy feedback** as an essential part of funding activities
- Exploitation of synergies and dynamic ways to work across programmes





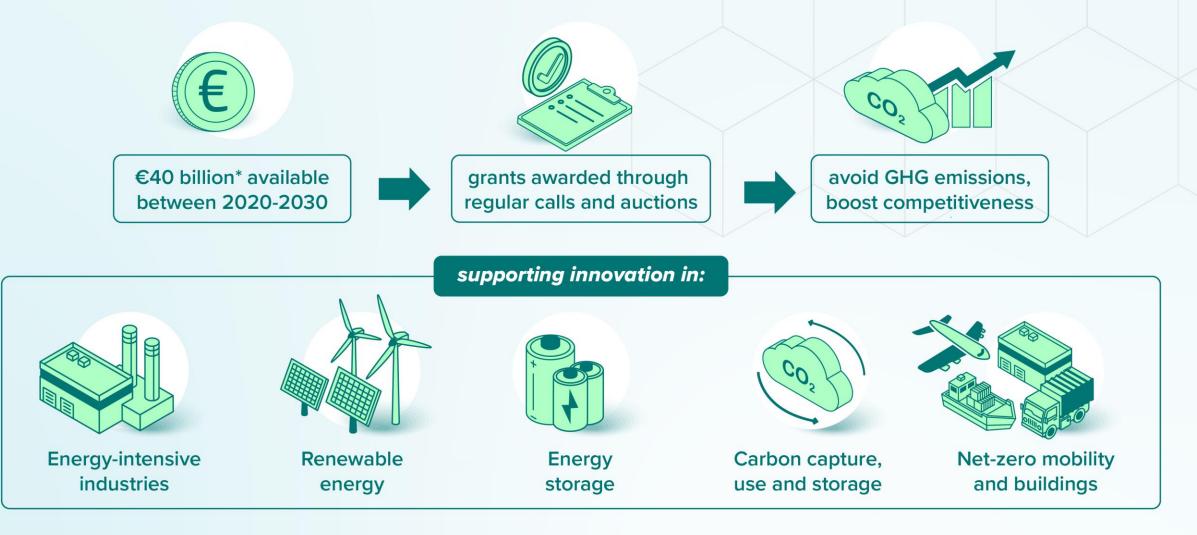
S



CINNOVATION FUND

Funded by the EU Emissions Trading System

Deploying innovative net-zero technologies for climate neutrality



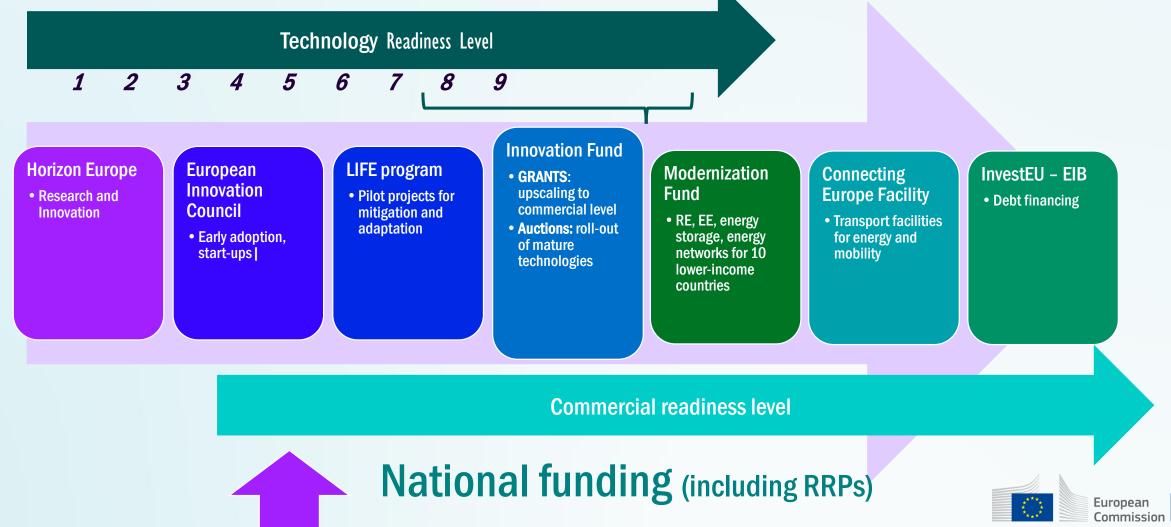
*based on a carbon price of €75/tonne

The Innovation Fund can support urgent policy priorities, but holds a long-term line of bottom-up support across sectors



- **RePowerEU** objective of 10Mt of renewable H2 domestic production.
- Net-Zero Industry Act: clean tech manufacturing topic (€700 million in 2022, €1.4 billion in 2023).
- **European Hydrogen Bank:** first pilot auction under the Innovation Fund.
- Wind package: clean tech manufacturing topic and project development assistance.
- Strategic Technologies for Europe Platform (STEP): 'as a service' feature for the Innovation Fund

Innovation Fund – targeted project portfolio



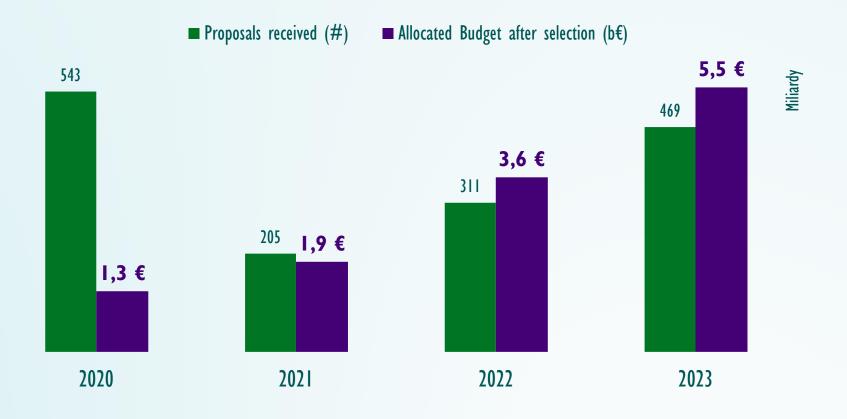
Evolution of the Innovation Fund



Commission

Evolution of the Innovation Fund

Over 1500 proposals received More than 12 billion € allocated to selected projects





The Innovation Fund in a nutshell

Project location

10

15

0

20

25

30

European Commission



208 projects: 123 ongoing + 85 under GAP*



€ 12.04 Billion EU granted + under GAP*



~929 Mt CO2 eq to be avoided**

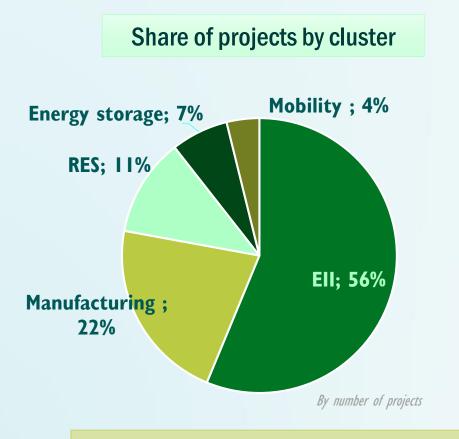


26 Countries

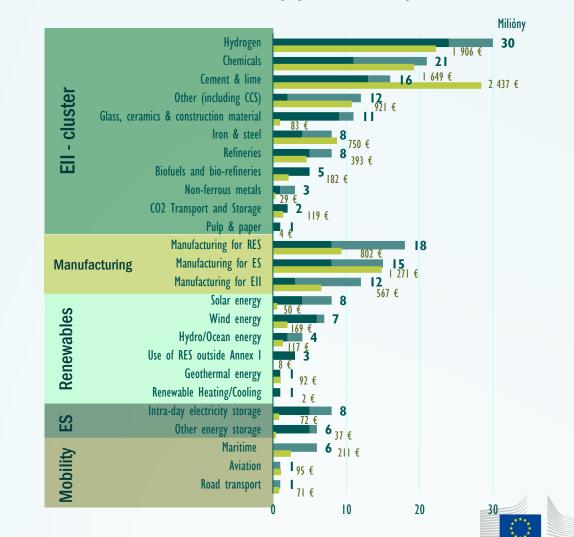
Two new countries added: Estonia and Slovakia

*GAP: Grant Agreement Preparation ** estimated based on 10 years operations

projects*



Newly added mobility projects in: Aviation, Road transport, Maritime* sectors



European Commission

■ Ongoing ■ IF-23 ■ Total Budget

Innovation Fund Lump-sum grant calls



Innovation Fund LS grants - key features

Financed from the revenues of the EU Emissions Trading System

Volume: EUR 40 billion* until 2030 (depending on carbon price) * at EUR 75/ tCO2

Annual calls

Support up to 60% of relevant costs

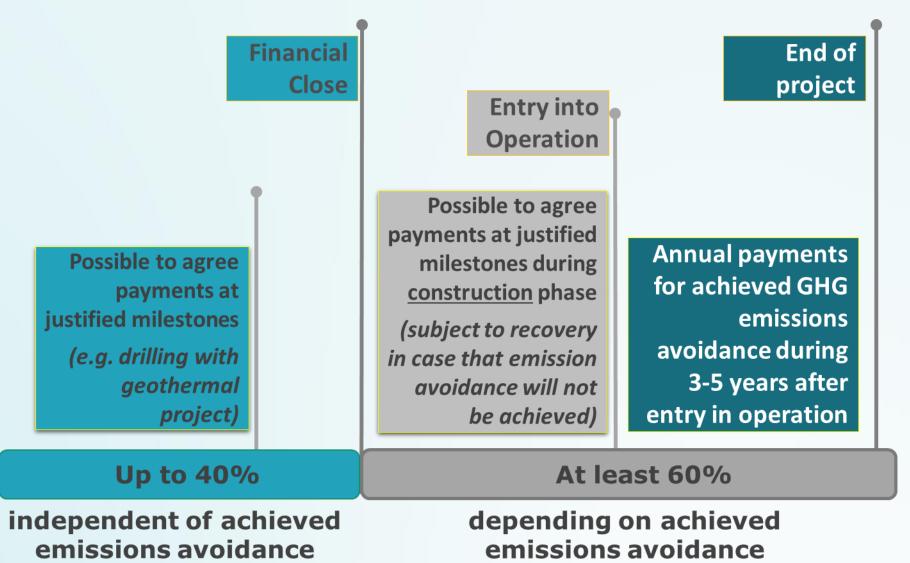
Up to 40% of the grant disbursed at Financial Close (FC)

At least 60% of the grant disbursed after FC and during 3-5 years monitoring period (GHG emissions avoidance)

Single applicant or consortium Projects must be implemented in EU/EEA Project development assistance provided by the European Investment Bank



Payment upon completed milestones





Innovation Fund topics and Award Criteria

Five topics

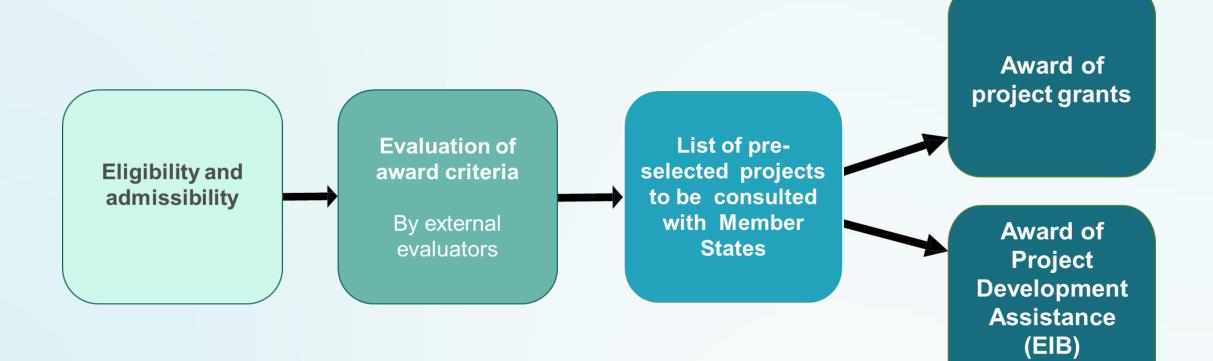
- Large Scale Projects (CAPEX>100 MEUR)
- Medium Scale Projects (CAPEX 20 100 MEUR)
- Small Scale Projects (CAPEX 2.5 20 MEUR)
- Clean-tech manufacturing (CAPEX>2.5 MEUR)
- Pilot projects (CAPEX>2.5 MEUR)



- Degree of innovation
- GHG emission avoidance
- Project maturity technical, financial, operational
- Replicability
- Cost efficiency
- + Bonus points

European Commission

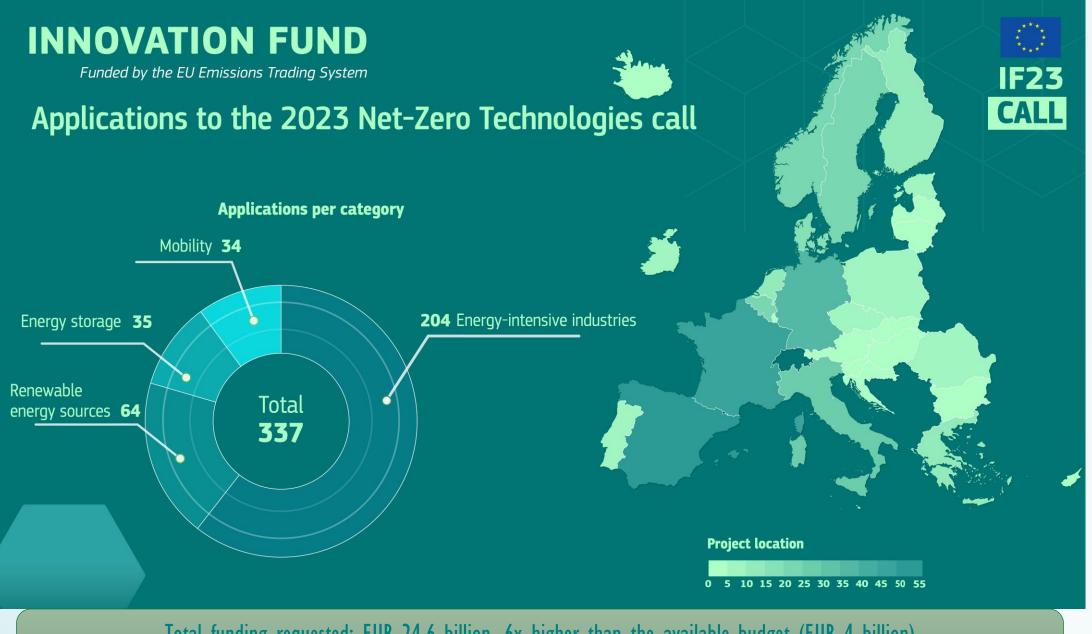
Selection procedure





Innovation Fund 2023 Call and results





Total funding requested: EUR 24.6 billion, 6x higher than the available budget (EUR 4 billion) Overall, potential to reduce 1.4 billion tonnes CO₂ equivalent

European Commission

INNOVATION FUND

Funded by the EU Emissions Trading System



in 18 European countries



IF23 Call: Net Zero Technologies (NZT)

- 337 received proposals
- 95 resubmissions
- 283* admissible & eligible
- **85** invited for grant agreement preparation

	Per lopic	
	Received proposals	Eligible proposals
GENERAL-LSP	139	132 (95%)
GENERAL-MSP	50	38 (76%)
GENERAL-SSP	42	22 (52%)
MANUFACTURING	56	52* (91%)
PILOTS	50	39 (78%)

Dor Tonio



* 2 proposals withdrew during the evaluation

*LSP = Large-Scale Projects ; MSP = Medium-Scale Projects ; SSP = Small-Scale Projects

Innovation Fund RFNBO H2 Auction



EU domestic RFNBO H2 auction objectives

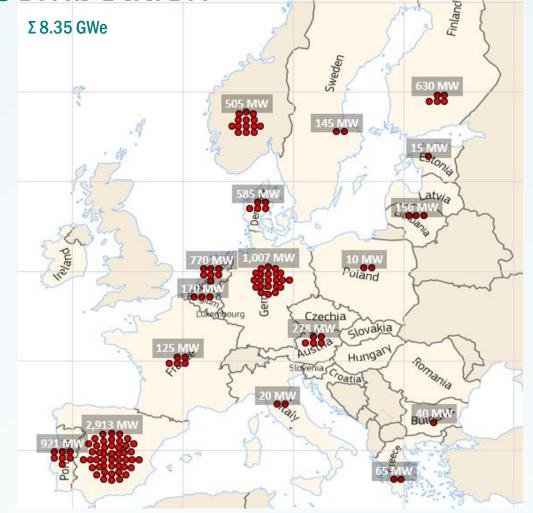


21



The first pilot auction round 2023 was a success with high levels of participation and competition

- **132* bids** from 17 different EEA countries
- Only 13 projects failed admissibility and eligibility criteria
- Seven bids selected ** requesting a total grant amount of € 720 million
- Selected bids between EUR 0.37 and EUR 0.48 / kg of $\rm H_2$
- Six Grant Agreements signed



^{*} Graphs and analyses on all following charts refer to data from 130 bids, excluding a bid submitted above the ceiling price of 4.5EUR, and a bid with significant data gaps and incomplete application documents.

** 6 bids signed the Grant Agreement.

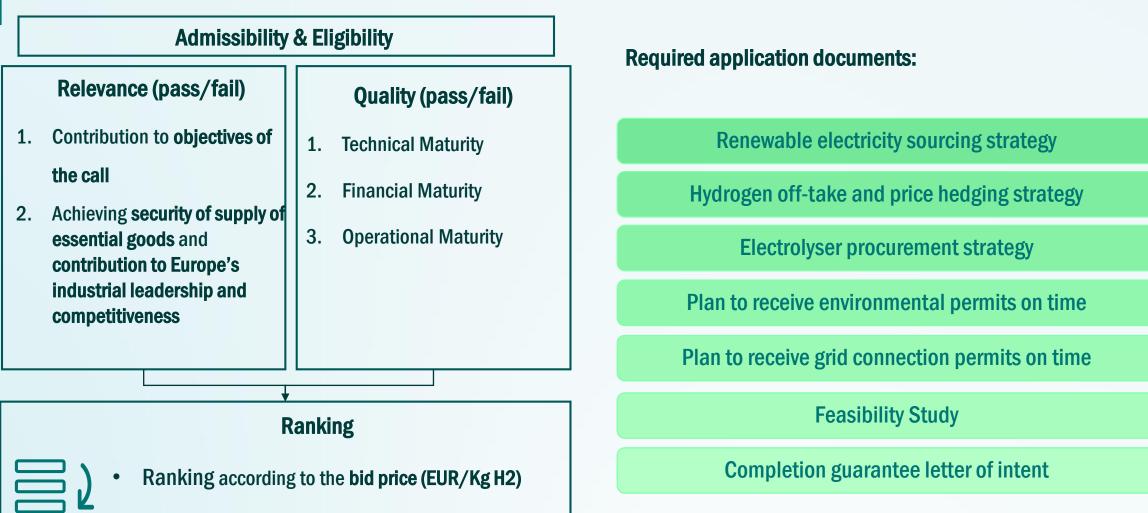
Objective of the IF24 Auction

- Support production of Renewable Fuel of Non-Biological Origin (RFNBO) Hydrogen as defined in the RED and its Delegated Acts. NEW: Contribution to achieving security of supply of essential goods and contribution to Europe's industrial leadership and competitiveness.
- Support in form of a **fixed premium** in €/kg of renewable hydrogen **produced** over **10 years**
- Single stage, pay-as-bid (no indexation to inflation).
- Pass/Fail qualification criteria and Ranking based on price budget allocated to projects with the lowest specific support requirements
- **Output based support,** upon verified and certified production of RFNBO volumes (no payments before entry into operation), Semi-annual payments.
- Auctions-As-A-Service





Call and assessment structure



Within the limits of the available budget

European Commission

General eligibility conditions

Location:	within the EEA
Installed capacity:	minimum 5 MWe, new capacity, Single location (no virtual capacity pooling)
Bid ceiling price:	4 EUR/kg RFNBO Hydrogen
Maximum size of the bid:	General Topic: EUR 250 million (1/4 th of total budget 1b€) Maritime Topic : EUR 200 million



Key implementation arrangements

Financial close	• 2.5 years after signing Grant Agreement
Entry Into Operation	• 5 years after signing Grant Agreement
Completion guarantee	• 8% of the requested grant
Payments	 No payments before entry into operation. Then, biannual basis - EUR/kg of RFNBO Hydrogen produced, certified and verified for a maximum period of 10 years.
Cumulation	• <u>with other public funding:</u> limitations apply, same as pilot auction
Production requirements	 Semi-annual production may be increased to up to 140% of planned. Total grant amount cannot be increased. Production can not fall below 30% of planned production for more than three rolling consecutive years
Compliance	• <u>With the criteria</u> under which the project was selected (e.g resilience criteria, maritime topic eligibility criteria) will be monitored during implementation



The RFNBO Hydrogen Auction

The auction will open on the: **3rd of December, 2024**

On that date, all relevant documents from the auction will be available on the EU Funding & Tenders Portal

You can find information on the IF24 Auction, including the Final Terms and Conditions, on DG CLIMA's <u>website</u>

Second renewable hydrogen auction: European Commission publishes Terms and Conditions

The Innovation Fund continues to support renewable hydrogen production as part of the European Hydrogen Bank.

IF24 AUCTION TERMS & CONDITIONS

INNOVATION FUND

Funded by the EU Emissions Trading System

On 27 September 2024, the Commission published the final Terms and Conditions ((T&Cs) for its second auction for the production of renewable hydrogen (IF24 Auction), via the Innovation Fund. This auction, which is a key pillar of the European Hydrogen Bank (EHB) (provides financial support to producers of hydrogen categorised as Renewable Fuel of Non-Biological Origin (RFNBO).

The auction will open on 3 December 2024 and will award up to ≤ 1.2 billion support to renewable hydrogen producers located in the European Economic Area (EEA). Building upon the success of last year's pilot auction (IF23 Auction) (, the second auction will further contribute to the creation of a European market for renewable hydrogen by de-risking investments with public support.



Innovation Fund in Slovakia

Selected projects



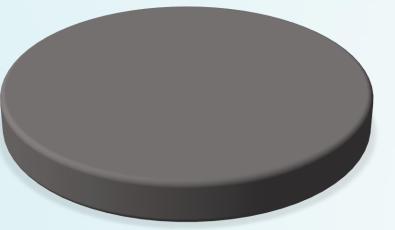


1 Projects 21.5 million € EU contribution

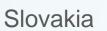


′ CO₂'

Sectoral distribution











Innovation Fund 2024 funding opportunities



IF24 Auction

- RFNBO Hydrogen
- Expected launch on 3 December 2024
- Budget EUR 1.2 bn



IF24 Call

- General, Cleantech, Pilots
- Expected launch: 3 December 2024
- Date and the budget to be announced beginning of November, 2024



IF24 Batteries

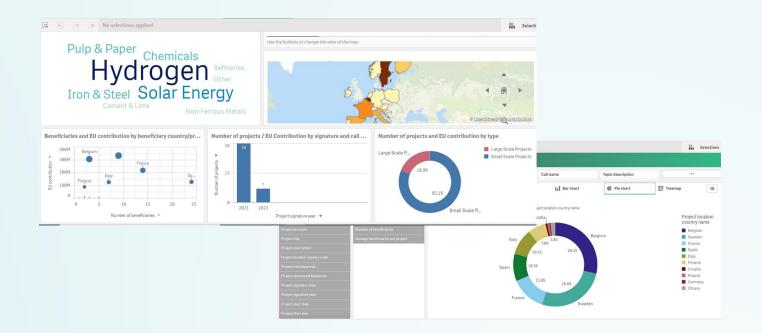
- Manufacturing of electric vehicles battery cells
- Expected launch: 3 December 2024
- Date and the budget to be announced beginning of November, 2024

All relevant documents for applicants will be available on the EU Funding & Tenders Portal.



EU Info Days are planned in December, National Info Day early 2025.

IF project portfolio dashboard



Available on **CINEA's website**



Knowledge Sharing Support replication and faster market penetration of the technologies or solutions supported by the Fund

Challenges & insights from IF projects



Closed door events

28 November 2023	Knowledge sharing workshop on CCS - Realising opportunities along the value chain (workshop <u>summary</u> , <u>presentations</u> , @,and slide pack: <u>Capture</u> , <u>Transport</u> , @, and <u>Storage</u> , @,)
10 October 2023	Knowledge sharing workshop on energy storage - Key takeaways and best practices to reach financial close (<u>workshop summary</u> ()
19 September 2023	Knowledge sharing workshop on hydrogen - Main challenges in reaching financial close and ways to tackle them (<u>workshop summary</u> 🌚)
30 March 2023	The emerging EU CO ₂ transport and storage market (workshop <u>summary</u> ෯, <u>presentations</u> ෯ and <u>background documents</u> ෯)
15 September 2022	Main challenges in reaching financial close and ways to tackle them (workshop <u>summary</u> , and <u>presentations</u> ,)
15 February 2022	Knowledge sharing workshop on CCS Directive - Innovation Fund and Projects of Common Interest (PCIs) (workshop summary (%))

Innovation Fund project portfolio

Real-time data Project portfolio dashboard @

Overview of projects per country @

Summaries available for download:

https://cinea.ec.europa.eu/programmes/innovation-fund/knowledge-sharing_en



European Commission



32

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

And more videos available on YouTube:

https://bit.ly/2WxK8w7



Let's keep in touch



climate.ec.europa.eu

<u>cinea.ec.europa.eu/programmes/innovation-</u> <u>fund_en</u>



clima-innovation-fund@ec.europa.eu



@EUClimateAction



@EUClimateAction

<u>@cinea_eu</u>



@EUClimateAction CINEATube



Subscribe to the Innovation Fund mailing list



EU Environment and Climate

European Climate, Infrastructure and Environment Executive Agency



@ourplanet_eu



The European Climate, Infrastructure and Environment Executive Agency (CINEA)

Sign up as an EU expert

for the INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality

More information here:



Join as project evaluator for Innovation Fund

- Technical expert
- Financial expert
- GHG expert
- Rapporteur

Sign up as an Expert (europa.eu)



Thank you



© European Union 2023

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.,

