

11 April 2024 Brussels, Belgium

# CLEANTECH CONFERENCE: DRIVING SUSTAINABLE INNOVATION

How to boost cleantech  
manufacturing in the EU



## INNOVATION FUND

*Funded by the EU Emissions Trading System*

# INNOVATION FUND

## Portfolio and Knowledge Sharing

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**INNOVATION FUND**

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# INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality

Funded by the EU Emissions Trading System



€40 billion\* available between 2020-2030

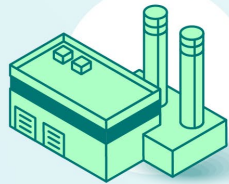


grants awarded through regular calls and auctions



avoid GHG emissions, boost competitiveness

supporting innovation in:



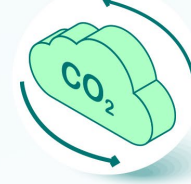
Energy-intensive industries



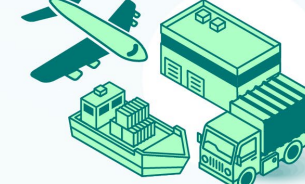
Renewable energy



Energy storage



Carbon capture, use and storage



Net-zero mobility and buildings

\*based on a carbon price of €75/tonne



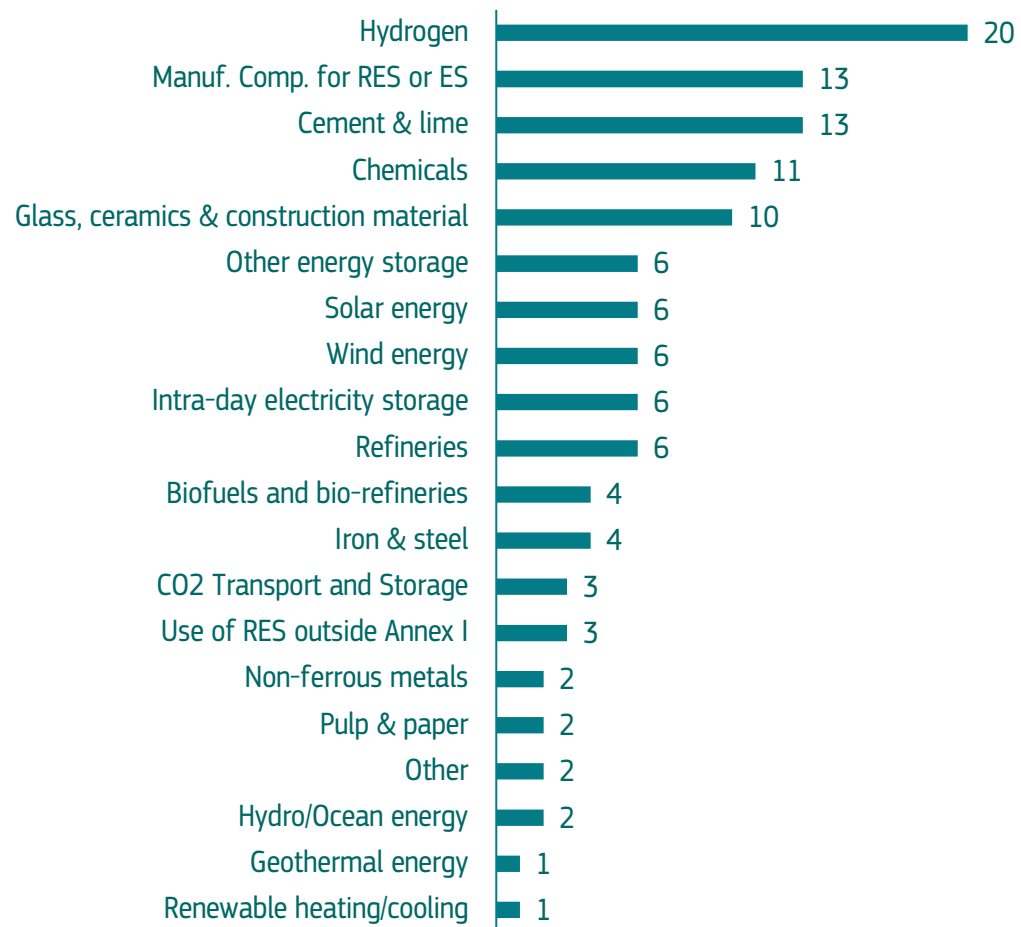
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# PORTFOLIO OF ONGOING AND SELECTED PROJECTS

## 2020 LSC, 2020 SSC, 2021 LSC, 2021 SSC, 2022 LSC\*, 2022 SSC\*

Projects by sector



**24**  
Countries\*



**444 Mt**  
CO<sub>2</sub> eq to be  
avoided\*



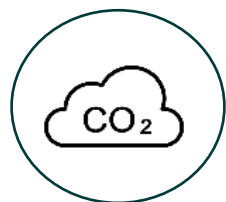
**€ 6.56 Billion**  
EU granted +  
under contracting



**Projects:**  
101 ongoing +  
20\* under contracting

*\*Data includes ongoing projects and preselected proposals from SSC-2022+ one from reserve list LSC-2022 and two LSC-2022 currently under GAPs*

# ONGOING CLEANTECH MANUFACTURING PROJECTS



8.9 Mt CO<sub>2</sub> eq  
to be avoided



~€ 1 Billion  
EU granted

19  
projects

Components and equipment for

9

Energy Storage

4

Hydrogen  
production

6

Renewables



**INNOVATION FUND**

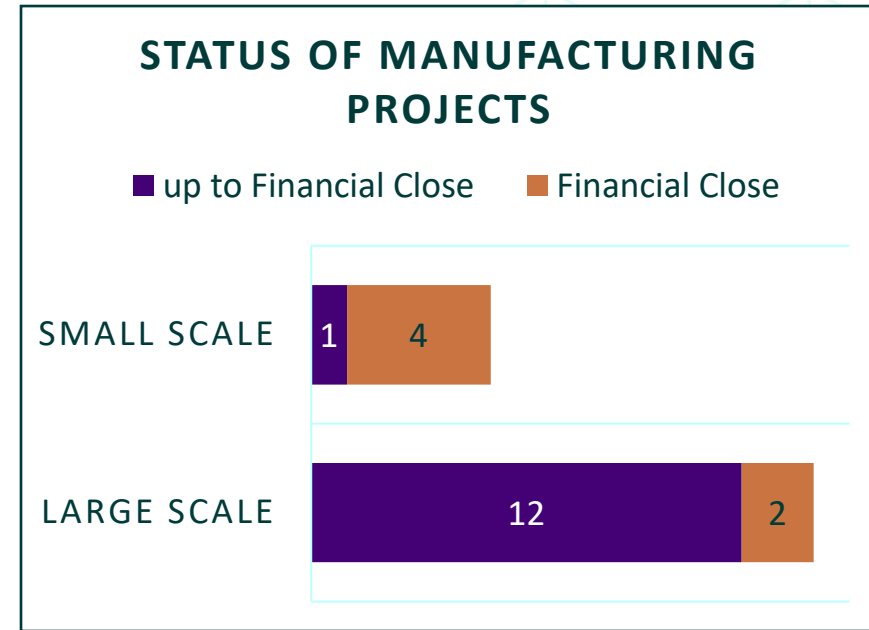
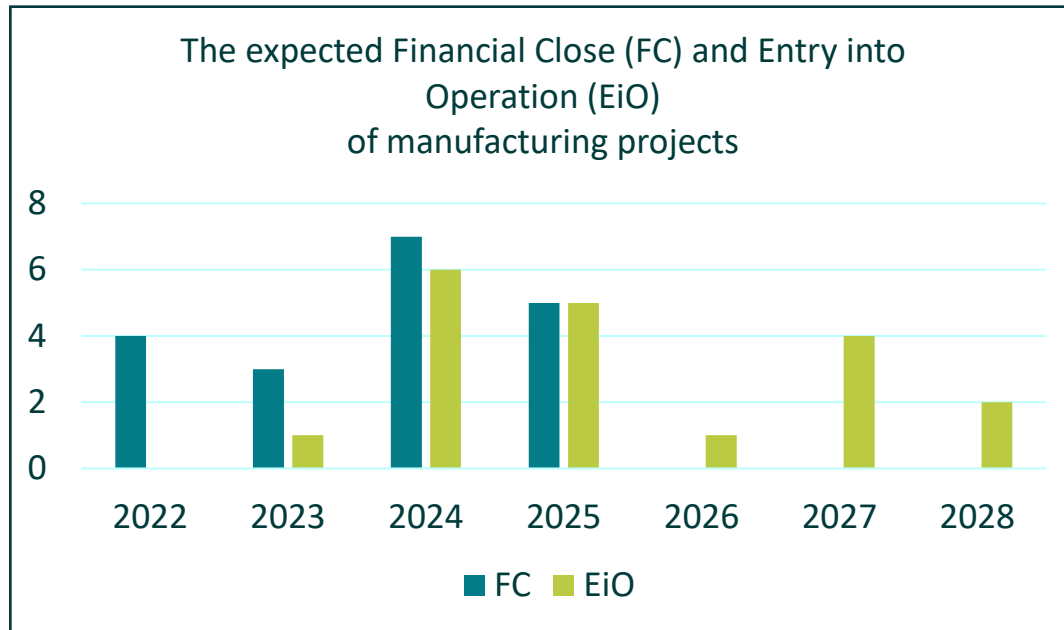
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# ONGOING CLEANTECH MANUFACTURING PROJECTS

	# projects	Technology	Project names	Countries	Approximate annual Outputs
Energy storage (Manufacturing)	4	Battery packs & cell manufacturing	CarbatteryReFactory, Giga Artic, Northflex, NorthSTOR PLUS	DE, ES, PL, SE	ca. 5.8 GWh/year
Energy storage (Recycling)	5	Manufacturing & recycling	BBRT, ELAN, Listlawelbattcool, Green Foil, Relieve	ES, NO, CZ, SE, FR	Enabling ca. >470 GWh/year battery storage capacity
Hydrogen	4	Electrolysers	Elyas, GIGA-SCALES, HyNCREASE & TopSOEC	DE, BE, DK	>10 GWh/year
Renewables (solar & wind)	6	Ingots, SiPV & CIGS modules, wind turbines	DAWN, HOPE, HelexioLine, SunRISE, TANGO, HIPPOW	SE, FR, DE, DK, NO, IT, DK	>6.5GWp/year



# STATUS OF MANUFACTURING PROJECTS



## Key challenges:

- **Solar PV** : securing off-take contracts, overall market outlook
- **Batteries**: supply chain disruptions, higher costs, shortages of critical equipment, regulatory
- **H2 production**: off-take contracts and high-quality levels at industrial scale

Status March 2024

# KNOWLEDGE SHARING



English

European Climate, Infrastructure and Environment Executive Agency

Home | About us | Programmes | Funding opportunities | Our Projects | News & Events | Publications

European Commission > CINEA > Programmes > Innovation Fund > Knowledge Sharing

## Knowledge Sharing

Knowledge sharing is an essential part the Innovation Fund because it supports the replication and the faster market penetration of the Fund supported technologies or solutions.

### Closed door events

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

### Innovation Fund project portfolio

Real-time data	Project <a href="#">portfolio dashboard</a>
	Overview of <a href="#">projects per country</a>

COMING SOON (June 2024)

# Knowledge Sharing Annual report

This report sheds light on **challenges** related to difficult market conditions, securing finance and off-take agreements,...as well as **insights** into how IF projects apply different strategies to overcome these challenges.



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# THANK YOU!



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