



EU policy update:

Industrial Carbon Management (ICM) for the EU

Decarb Connect 2024 - Berlin 18.6.2024

Daniel Kitscha, Policy Officer, European Commission,
DG Climate Action, Unit C2

NZIA

Net-Zero
Industry

ICM
Strategy
EU

NZIA: strategic recognition of CCUS as net-zero technologies for the EU; deployment of first CO₂ storage sites by 2030; obligation to oil and gas industry to play their part; annual progress reporting on CO₂ value chains in MS.

Net-Zero Industries need to store their hard to abate process emissions (limestone, cement) to reach net-zero in the EU; however, CO₂ storage sites and transport means are needed before they will be captured.

Industrial Carbon Management (ICM) Strategy Communication (COM(2024) 62 final): CCS, CCU, Removals/CDR as important pathways to reach net-zero in the EU and cross-border CO₂ transport infrastructures as key enabler.

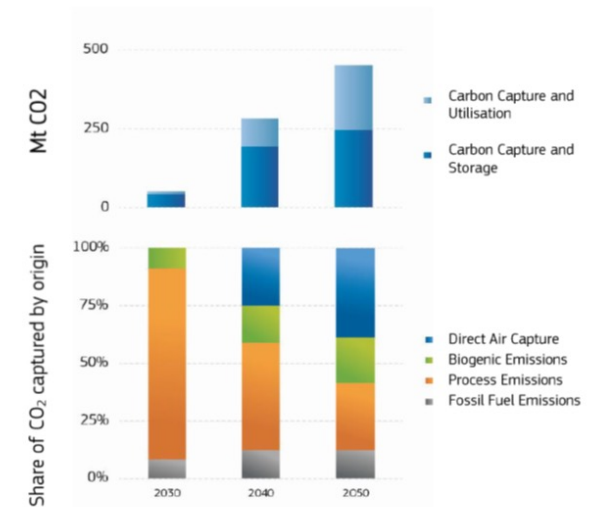
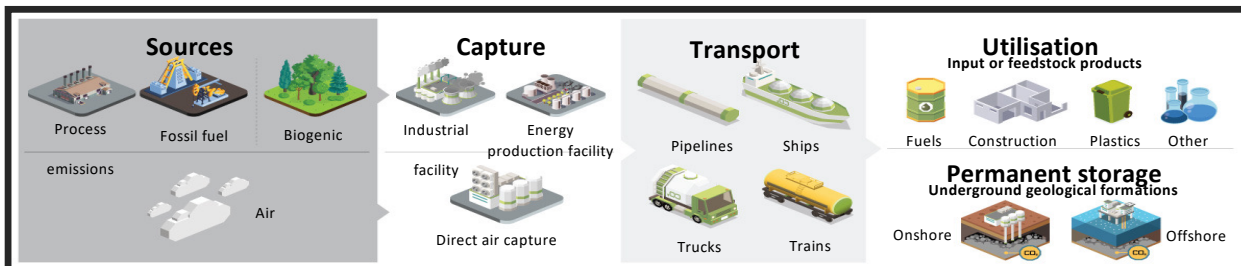
Industrial Carbon Management (ICM)

Commission Communication (6.2.2024)*, with actions for the Union and Member States to implement to reach net-zero

Three “ICM” technological pathways:

- *Capturing CO₂ emissions for storage (CCS)*
- *Removing CO₂ from the atmosphere (BioCCS and DACCS)*
- *Capturing CO₂ for utilisation (CCU)*

Key enabler : CO₂ transport infrastructure



CO₂ capture needs in 2040
Climate Modelling:

2030: ~50 Mtpa
2040: ~280 Mtpa
2050: up to 450 Mtpa

* [COM/2024/62 final](#)

Key ICM policy actions@ next Commission

CO₂ demand aggregation platform
matching storage with emitters by 2030

CO₂ Storage Atlas for the EEA
finding storage capacity for 2040

*Climate law: **2040 carbon removals objective** for climate neutrality by 2050?*

*Prepare: **future CO₂ transport regulatory package** & EU-wide infrastructure planning mechanism*

*Develop **EU policy support options:***

- **Removals deployment** based on market demand
- **CCU uptake** with accounting in the EU ETS.

Investment and funding:

- **Work with MS, to develop Important Projects of Common European Interest (IPCEI)**
- **Consider market-based funding mechanisms** (i.e. CO₂ competitive bidding auctions as a service)

Creating enabling environment

- **Public awareness: public debate at MS level, rewards for local communities** where storage happens
- **Research and innovation (R&I) based on project knowledge-sharing**

Net-Zero Industry Act (NZIA) regulation*

= the 1st legal building block for ICM



Legal objective for the EU to enable an **annual 50 million tonnes** of CO₂ to be stored permanently underground by 2030.

European oil and gas producing industries must contribute with their assets and/or their financial resources to develop operational geological CO₂ storage sites.

More **transparency for investors** on:

- **Demand and supply:** CO₂ storage, CO₂ capture, and CO₂ transport in the Member States.
- **Geological data** for future storage sites to be made public
- Annual progress of ongoing CO₂ value chain projects

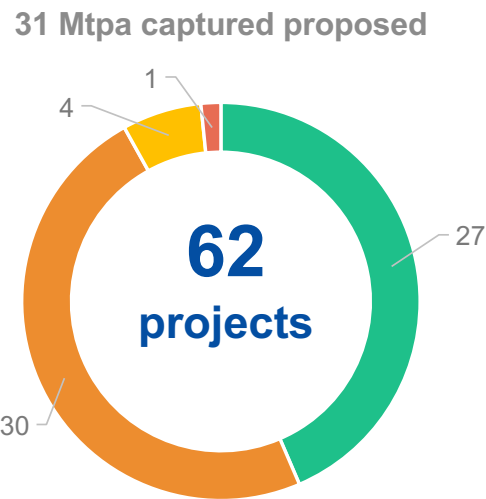
Support for manufacturing of carbon management technologies & **deployment** of Net-zero strategic projects (capture, transport & storage)

*Adopted (EP 25.4., Council 27.5.), entry into force in June 24, [final text here](#).

Industrial demand: March 2023

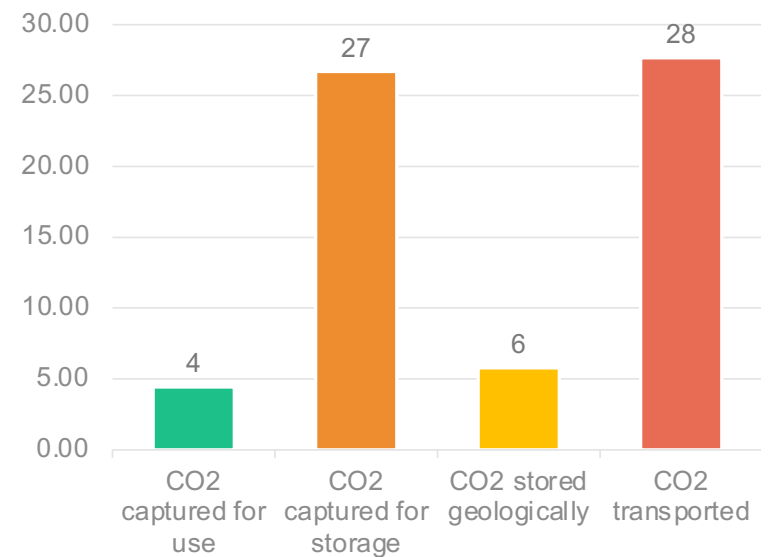
EU Innovation Fund: € 4bn grant call

Industries are ready to start!



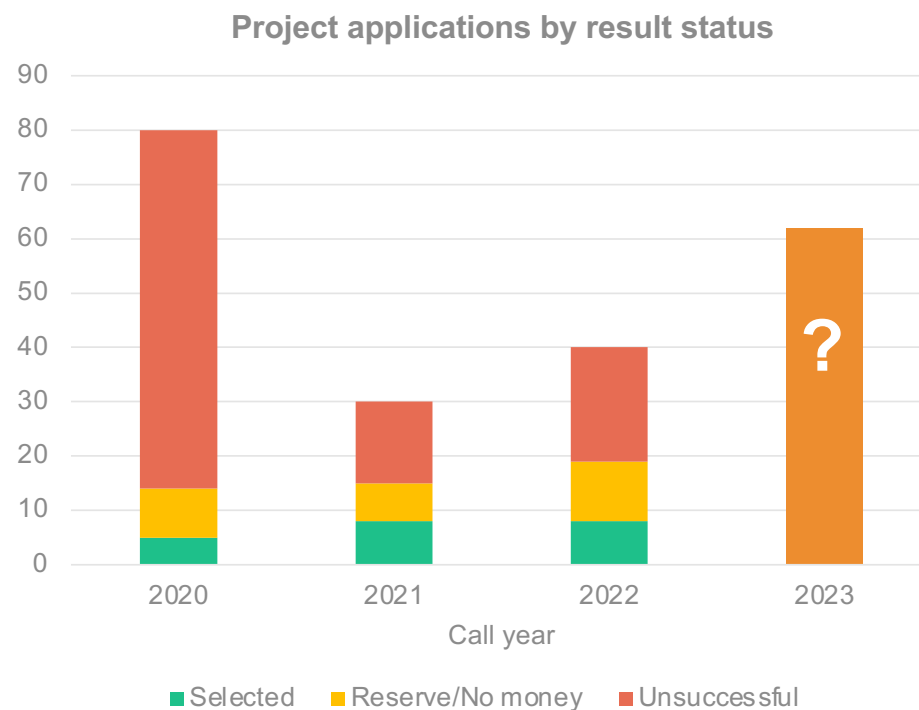
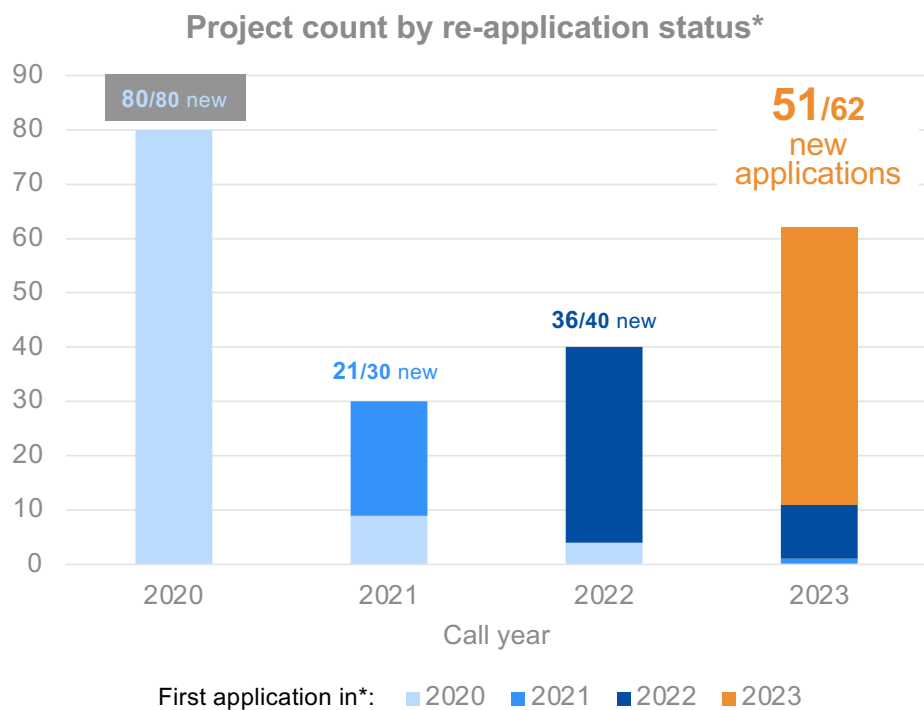
- CO2 captured for use
- CO2 captured for storage
- CO2 stored geologically
- CO2 transported only

Volume of CO2 per value chain part



Demand for EU support: *Trend 2020-2023*

EU ETS drives demand to reduce hard-to-abate emissions



Thank you for your attention!

More Information:

https://climate.ec.europa.eu/eu-action/carbon-capture-use-and-storage_en

Dr. Daniel KITSCHA
Policy Officer, European Commission, DG CLIMA, Unit C2

