





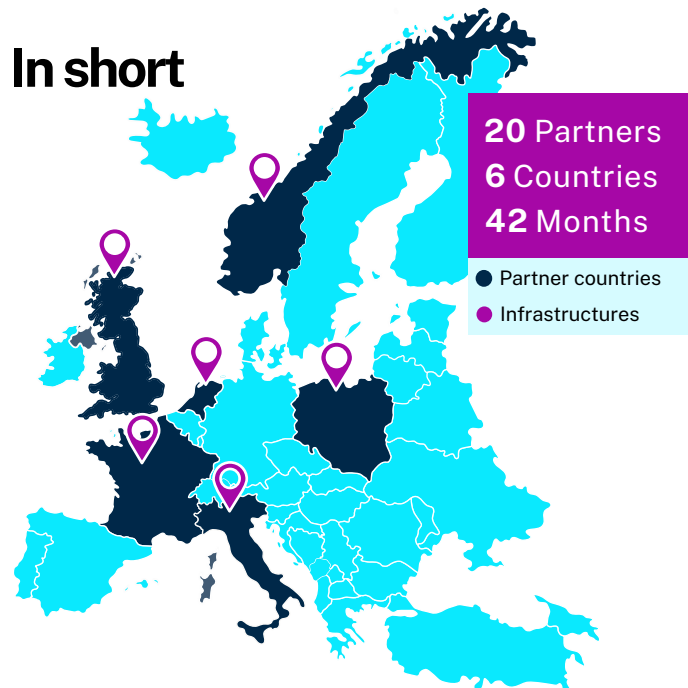


Goals

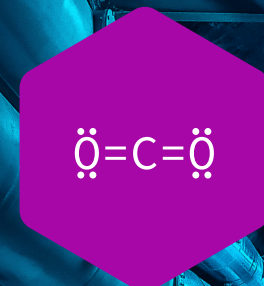
	Advanced scientific instruments and energy-efficient equipment	a, b, c
	Improved research infrastructures and trained staff to serve future industry needs	a, b, c, d
	New / improved software and tools	a, b, c
	New social innovation labs	b, d
	Digital technologies for optimization of RI operation, training and CCS pipeline network	a, b, c, d
	Platform for sharing knowledge	a, b, c, d

In short



ENCASE brings together Carbon Capture and Storage (CCS) research, operators, manufacturers, academia, and SMEs to increase competitiveness in the industry.

This will contribute to the **development of innovative companies** and the **education of future workforce for the CCS industry**, as well as **improving the design and operation of CCS infrastructures to meet EU climate goals**. Social innovation labs and co-creation initiatives will also be developed to address societal needs.



A European Network of Research Infrastructures for CO₂ Transport and Injection

www.encase-eu.com

Call outcomes

HORIZON-INFRA-2022-TECH-01

a

Enhancing scientific competitiveness of European research infrastructures

b

Setting foundations for the development of innovative companies

c

Increasing the tech. level of industries through the co-development of advanced technologies for research infrastructures and creation of potential new markets

d

Integrating RIs into local, regional and global innovation systems

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 The ENCASE project  @Encase_project



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101094664.

ENCASE is a project aimed at **deploying Carbon Capture and Storage (CCS) technologies** in different industrial sectors across Europe to **reduce greenhouse gas emissions and meet EU climate goals.**

How?

- ✓ **By implementing a fast track approach** to abate CO₂ emissions by deploying CCS from different industrial sectors across Europe.
- ✓ **By improving 7 world-leading CCS-related research infrastructures (RIs)** in the consortium with state-of-the-art scientific instruments, tools, and methods.



The EU aims to cut greenhouse gas emissions by 55% by 2030 and achieve carbon neutrality by 2050.

Deployment of Carbon Capture and Storage (CCS) is a powerful fast track approach to abate CO₂ emissions.

CO₂ transport and injection are essential links between capture sites and storage reservoirs.

Mission



“Contribute to a safer, more cost-effective, and environmentally friendly CO₂ transport and well injection”

It will do so by **strengthening** the 7 world-leading CCS-related Research Infrastructures (RI), partners in the consortium, and **increasing the personnel's competence.**

It will also **increase the competitiveness of European RIs** by collaborating with operators, service companies, academia and SMEs.

The RIs will be available for the industry and SMEs to **prototype new equipment and technology** for monitoring, controlling and predicting CO₂ streams with impurities.



Impacts



- ✓ **Lift the knowledge level** of industry and academia, leading to the development of innovative companies and the **education** of future workforce.
- ✓ **Develop social innovation labs and co-creation initiatives** to address societal needs and **better integrate RIs in local communities.**
- ✓ **Improve design and operation** of CCS infrastructures to help meet **EU climate goals.**
- ✓ **Benefit** the scientific community, industry, policy-makers, environment, and society.

Benefits



- ✓ **Safer, more cost-effective, and environmentally friendly CO₂ transport and injection.**
- ✓ **Enhance** the capability of RIs, **increase** competence of RI personnel, and enable RIs to **better address key knowledge gaps.**
- ✓ Provide RIs for **innovative products** such as pumps, metering technologies, and **simulator tools** for monitoring, controlling, and predicting CO₂ streams.