

Project poster and briefing leaflet

Deliverable D7.4

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PilotSTRATEGY (H2020- Topic LC-SC3-NZE-6-2020 - RIA)

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This document requires the following approvals:

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The PilotSTRATEGY project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101022664





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Executive summary

A project poster (PDF) and a project briefing (two-page summary in PDF format) have been prepared and will be translated in the 5 languages of the regions in focus, for partners to use in conferences and regional workshops to explain and raise awareness of the project. Deliverable D7.4 includes a copy of the branded documents.

A high-definition version of the poster and the leaflet have been sent to all partners and have been made available to the public via the project's website https://pilotstrategy.eu/.

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Table of Contents

Exec	Executive summary	
1.	[PilotSTRATEGY poster]	6
2.	[PilotSTRATEGY project briefing (2pp)]	7
3.	Conclusion	9

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1. [PilotSTRATEGY poster]



Impact	PliotsTRATEGT Actions/Outputs	
Detailed geo-characterisation	 Conceptual Geological Model for five target regions. New dota including 30 active & possive retende Characterisation (geological, geochemical & geomechanical) at field & sample scale for five regions 	
Safe storage sites: numerical simulations of CO ₂ fate and its impact in subsurface	 Optimisation of well location and CD, injection rate by numerical simulations for four regions Short & Lang-term CD, (do in subsurfaces for flive regions Prevezue, generalization is a subsurfaces for flive regions Imposts in near wellbore linked to injectivity issues Imposts in near wellbore linked to injectivity issues 	
Development plans for safe storage sites in three most promising regions	 Pro-FEED level development plan for CO, storage sites in France, Partugal & Spain Guidelines far risk identification in storage site development & assessment, including mitigation & preventive measures 	
Facilitate subsequent storage permit applications to help kick stort CCS/CCUS	 Complete documentation for injection permits for France, Portugal & Spain in local languages Guidalnias & road maps for permit submission, tailored to France, Pertugal & Spain, in local languages Overview for Greece & Portand 	
laseline storage cost estimates	 Class 4 cost estimates for France. Portugal & Spain Creation of cost estimate database for future CO, storage sites in other European countries 	
ncreased public owareness	 Eight surveys in five target countries for public occeptance mapping Public engagement plans (activities, targets, schedule, material) for the five regions to workshops and engagement activities, simed at bitters, media & policy malars, close to proposed plict locations five Regional Statishedars Correntizes Project dissemination: webinas, media and social media; cocessible information on project website 	
aying groundwork for CCS/CCUS operational stage in the mid-2020s	 Complete studies for pre-FID in three main regions, including pre-FED design Techno-economic pre-fossibility studies for CCUS in all two regions Engage law stockholdes or implainmentioner of future storage facilities 	
The five-year PilotSTRATEOY project, which commenced in 202, has received funding from the Durapean Union's Horizon 200 measarch and innovation percomment-union and a commentant on 2023 Mark	🌐 pilotstrategy.eu 🧃	

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@PilotSTRATEGY www.pilotstrategy.eu Page 6

PilotSTRATEGY

2. [PilotSTRATEGY project briefing (2pp)]



pilotstrategy.eu



PilotSTRATEGY is an ambitious five-year international research project on the use of deep saline aquifers for geological storage of CO₂ to support development of large-scale carbon capture and storage (CCS), a critical technology in the net-zero transition.

Building on the findings of the STRATEGY CCUS project, PilotSTRATEGY will carry out detailed studies in three promising regions in France, Portugal and Spain. We will also enhance knowledge of CO₂ storage options in Greece and Poland.

Objectives

- Focus on deep saline aquifers which promise large capacity for CO₂ storage
- Support safe and effective storage pilots
- Engage with citizens & stakeholders; evaluate factors affecting CCS acceptance



1. Paris Basin, France

- Industrial facility already capturing > 300 kt/CO₂ per year
- Storage resources within Keuper & Dogger Formations
- Keuper: identified effective storage capacity Tier 2 of 0.22Gt
- Dogger: identified theoretical storage capacity Tier 1 of 0.2Gt

3. Ebro Basin, Spain

- Region includes Tarragona industrial area
- Onshore & offshore CO₂ storage potential exists within 100km radius
- Onshore CO₂ storage estimated at up to 0.85Gt Tier 2 of capacity

4. West Macedonia, Greece

- Region covers Kozani and Ptolemaida industrial areas
- Storage resource provided by the Mesohellenic Trough
- CO2 storage in DSA estimated at 1.16Gt Tier 1 (theoretical)

Lusitanian Basin, Portugal

- Includes CO₂ emitters in the Setúbal Figueira da Foz axis; could accept CO₂ from Lisbon region
- CO₂ effective DSA storage capacity: 0.26Gt onshore Tier 2; theoretic capacity 2.86GT offshore Tier 1
- Social acceptance will be factor in storage pilot's location

5. Upper Silesia, Poland

- Region includes industrial areas of Katowice, Rybnik and Bedzin
- Poland's most industrialised region, with 16 coal mines and 7GW of power generation
- CO₂ storage capacity of 0.015Gt in uneconomic coal beds and of 0.1GT In DSA
- 6. Germany (supporting country)
- 7. UK (supporting country)

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Work Packages

Led by France's BRGM, our research team combines the skills and experience of 16 scientific and industrial partners from seven European countries.



Why is this project important?

Carbon capture and storage (CCS) – whereby CO₂ is captured from large emitters for permanent underground storage – is pivotal to Europe's climate commitments. Meeting the challenge will depend on sufficient geological CO₂ storage becoming available in time.

PilotSTRATEGY will help develop CO₂ storage capacity and build confidence in CCS. Further research, policy support, and building public acceptance are critical to ensure CCS becomes a feasible climate mitigation option for local industries and local communities.

We are focusing on deep saline aquifers – porous rock formations filled with brine several kilometres below ground – which promise a large capacity for storing captured CO₂, but which have been under-researched for CCS until now.





The five-year PilotSTRATEGY project, which commenced in 2021, has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 101022664.

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3. Conclusion

The project poster and the project briefing have been developed to be used in conferences, meetings and public events by PilotSTRATEGY partners and to be accessible by the public via the project website.

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