Open Doors event in France: Questions prepared by the stakeholders (May 2024)

PilotSTRATEGY is European research rooted in a local territory. In France the project is focused on the Paris Basin, specifically a 100 km^2 area around the Grandpuits industrial site, where there is a fertilizer factory with the capacity to capture its own CO_2 emissions.

France's Open Doors event is one of several venues where local stakeholders can find out about the scientific work, ask questions, and discuss with researchers and other participants. At the 3rd annual edition in May 2024, about 25 people took part: local residents, farmers, elected representatives and administrators from various townships, environmental associations, and industrialists. On hand to present the work and to exchange ideas were 12 researchers from project partners BRGM, IFPEN, and Symlog.

After the scientific presentations came time for participants to develop their questions and comments. Six small groups, mixing different stakeholder categories, prepared and presented 34 questions. These could be organized into 12 categories (see the News section of pilotstrategy.eu). This document shares the questions just as they were written down by the respective groups (A-E).

A-If a site were to be built, where would it be? Exact location.
A-Are we going to store in existing boreholes?

B-Inertia of the clay. What about the swelling of the clay?
B-Is CO_2 injected in purely gaseous form, or is it the effect of pressure that transforms it into a supercritical substance?
B-Estimate the total storage potential of the Paris Basin in relation to France's emissions tonnage?
B-Who are the CO_2 producers other than [the fertilizer producer] in the area?

C-What is the future of the former [fertilizer production] site? Following the definitive closure of this plant
C-What does 100,000 tons of CO_2 represent?
C-What does the project represent in France? Europe? And planet?
C-What are the other projects in Europe?
C-One talks about storage, but what about capture?
C-Financial interest for the commune or community of communes?
C-What's the point of pursuing such a project in 2024 in terms of the site's future?
C-What are the biggest CO_2-producing sites in France - how are they organized to deal with the issue?
C-Density of CO_2?
C-How will the storage facility be supplied, assuming that the storage facility is in Grandpuits and the product comes from elsewhere?
C-Can CO_2 be used for other purposes?

Documents about stakeholder engagement in France are available online
https://pilotstrategy.eu/about-the-project/explore-the-regions
Select France to access a pop-up with download links.
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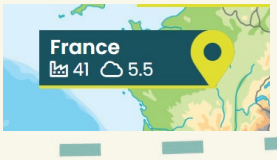

D-Does storage depend exclusively on [the fertilizer producer]?
D-What is its future if [the fertilizer production site] closes in 5 years?
D-What is the impact of CO_2 mineralization over the very long term?
D-What is the impact of making rock less porous?

E-Why did you focus your research directly on a saline aquifer and not on the territory's oil wells at their end of life? In other words, why try to recreate a borehole when there are already so many in the area?
E-What about the sustainability of CO_2 production with changes in the refinery's activities? Or of [the fertilizer producer]
E-What other sources of CO_2 could be stored here? Use of the pipeline? Or already dismantled?
E- How likely is it that this research project will come to fruition?
E-What is the possibility of reversing the use of this aquifer for geothermal energy if the need arises on the surface?
E-How long will it be before CO_2 is injected here on an industrial scale?
E-What happens if there's a non-referenced open-air well in the injection zone?

F-Capture CO_2?
F-Injection suppression?
F-Long-term monitoring?
F-Injection depth?
F-Salinity levels?

Extra: What does it mean to spend public money on research and make results available to private operators?

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