

From Technology to Market Dialogue: DRIVE Expands Industry Engagement

Welcome to the DRIVE project!

The DRIVE project is entering a decisive phase of industry engagement and strategic alignment. Following months of intensive technical development, modelling activities and pilot system preparation, the consortium is now strengthening its dialogue with industrial stakeholders and the wider CCUS ecosystem. As DRIVE technologies progress toward higher Technology Readiness Levels, it becomes increasingly important to validate solutions not only in controlled environments but also through structured interaction with market actors.

In this context, the upcoming DRIVE stakeholder workshop and the next Consortium Meeting in Larissa, Greece, mark key milestones in the project's evolution, reinforcing collaboration, deployment readiness and cross-project knowledge exchange.

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DRIVE Stakeholder Workshop

Exploring Deep CO₂ Removal: Challenges, Needs and Market Perspectives

As part of the project's dissemination and stakeholder validation strategy, DRIVE will organise its first industry-focused workshop, bringing together:

- Industrial end-users
- Energy infrastructure actors
- Engineering and technical consultancies
- CCUS experts from complementary European initiatives

The workshop will feature contributions from DRIVE partners presenting ongoing technical processes within the CODEC and ZEUS systems, offering insight into electrified solvent regeneration and flexible CO₂ capture approaches currently under development.

Focus of the Discussion

The workshop will explore:

- Technical and cost barriers to large-scale deployment
- Market readiness and industrial uptake conditions
- Regulatory and infrastructure enabling frameworks
- Pathways for accelerating deep CO₂ removal in energy-intensive sectors

Rather than a purely presentation-driven event, the session will encourage structured discussion and stakeholder feedback, ensuring that DRIVE solutions are aligned with real-world application needs.

This marks an important step in the project's transition from technology development to industry validation.

Why This Matters

The workshop represents a strategic shift from technology development to stakeholder validation, ensuring that DRIVE innovations respond to real industrial challenges and market conditions.

You can participate online [here](#)

Research & Dissemination Highlights



Breakthrough in Bipolar Membranes at TU/e

A recent scientific breakthrough from Eindhoven University of Technology (TU/e) marks an important step forward for the DRIVE project. New research on bipolar membranes demonstrated a way to overcome the long-standing trade-off between low resistance and high perm-selectivity, opening promising pathways for more efficient CO₂ capture and regeneration processes. This development is particularly relevant for DRIVE's ZEUS technology, where improved membrane performance can contribute to lower energy demand and better industrial scalability.



DRIVE at NPS20

DRIVE was represented at the Netherlands Process Technology Symposium (NPS20), where advanced research on electrospun bipolar membranes was presented. The work highlighted how innovative membrane fabrication and interface engineering can improve water dissociation, reduce voltage losses and enhance the overall efficiency of electrochemical regeneration systems. These findings directly support the project's ambition to develop next-generation CO₂ capture pathways for industrial use.



DRIVE at EJIL 2025

At EJIL 2025 in Porto, DRIVE partners presented work on the Life Cycle Assessment (LCA) of different CO₂ capture technologies. The presentation underlined the importance of evaluating not only technical performance, but also the broader environmental implications of emerging capture solutions. By integrating LCA into its work, DRIVE strengthens its ability to assess which technological routes can support industrial decarbonisation in a more sustainable and evidence-based way.

OUR PARTNERS



Research & Dissemination Highlights



DRIVE at PCCC-8

The DRIVE project was also showcased at the 8th Post Combustion Capture Conference (PCCC-8), where it presented scientific advances in deep CO₂ removal and electrochemical regeneration. The conference provided a valuable platform to share project progress with an international audience of experts and to position DRIVE within the broader scientific discussion on post-combustion capture technologies. This participation reinforced the project's visibility in one of the most important forums dedicated to CO₂ capture research.



DRIVE at EUBCE 2025

At EUBCE 2025, DRIVE contributed to discussions on the Life Cycle Analysis of CO₂ capture technologies in the context of industrial decarbonisation and sustainable energy systems. The presentation highlighted the importance of understanding the full environmental footprint of capture technologies, especially as Europe accelerates its transition toward climate neutrality. Through this contribution, DRIVE further demonstrated its commitment to combining technological innovation with sustainability assessment.



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