



## DEEP REMOVAL OF CO<sub>2</sub> & INNOVATIVE ELECTRIFICATION CONCEPTS

### Welcome to the DRIVE project!

DRIVE envisions a future where industries achieve carbon neutrality or negativity, paving the way for a sustainable environment by 2050 through innovative technological solutions and comprehensive guidance on CO<sub>2</sub> reduction.

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# ← ABOUT

DRIVE (Deep Removal of CO<sub>2</sub> and Innovative Electrification Concepts) is a pioneering project at the forefront of combating climate change by focusing on CO<sub>2</sub> capture in industrial settings. Aligned with the ambitious goals set by the Clean Energy Transition Partnership (CETP) Strategic Research and Innovation Agenda (SRIA) and in harmony with the European Union's commitment to achieve climate neutrality by 2050, DRIVE aims to revolutionise the way we approach carbon emissions.



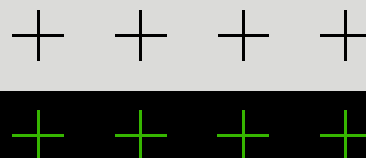
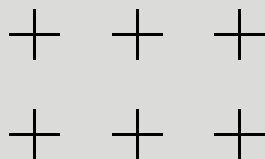
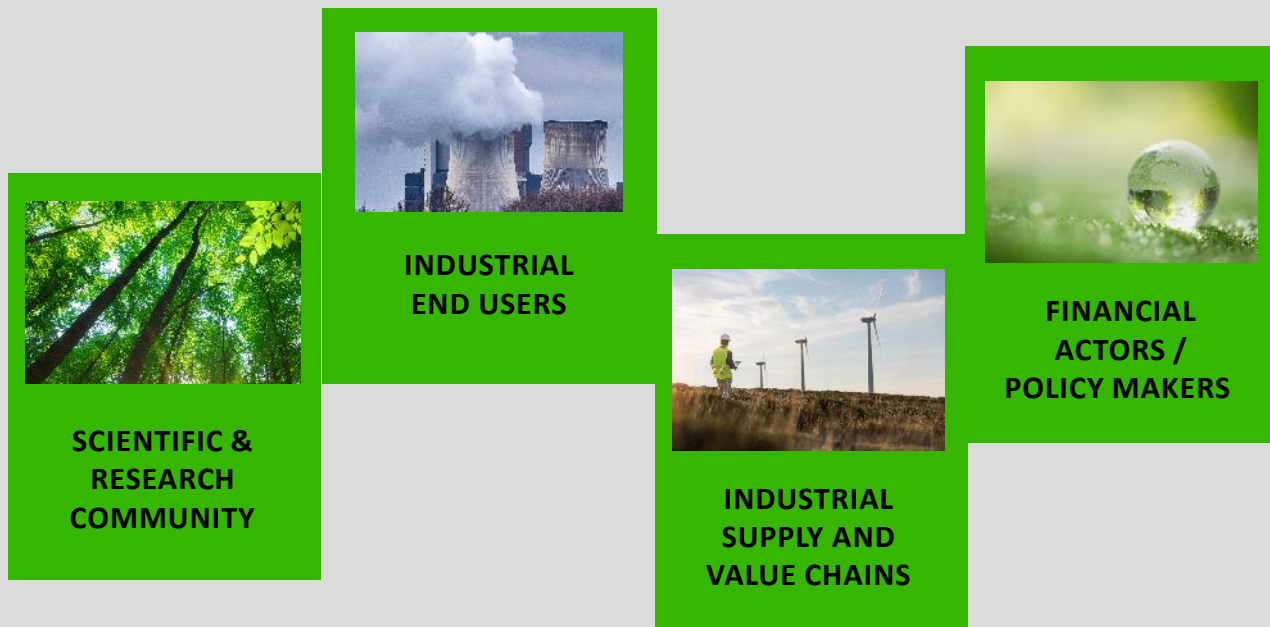
Transition Initiative 3 (TRI3) under the CETP framework emphasises enabling climate neutrality through the adoption of cutting-edge technologies such as Carbon Capture and Storage (CCS) or Carbon Capture and Utilization (CCU). DRIVE specifically targets the initial stages of CCS and CCU chains, with a primary focus on enhancing CO<sub>2</sub> capture to facilitate negative emissions.

DRIVE's approach is rooted in innovation and collaboration. We understand that achieving high-performance CO<sub>2</sub> capture systems requires optimised processes and innovations to investigate cost reduction by further electrification. Through holistic modelling and a synergistic understanding of the process, DRIVE enables efficient and reliable scaling up of deep removal processes, paving the way for a sustainable future.

DRIVE develops technologies and methods that will allow a wide range of industries to become carbon neutral or even carbon negative, leading to a significant reduction in costs to achieve EU carbon neutrality goals, and directly contributing to keeping global warming below 1.5°C. The direct long-term impacts of DRIVE are associated with the implementation of the technology in different sectors: while in the project we will showcase for power, cement and waste-to-energy use cases, any industry planning on implementing point-source CO<sub>2</sub> could potentially benefit from deep removal and/or electrification.

DRIVE's expected impact is substantial, with projections estimating significant reductions in CO<sub>2</sub> emissions by 2050. With over 10,000 industrial plants globally, particularly in sectors like cement and power production, DRIVE's results stand to benefit numerous industries.

# TARGET GROUPS



## OUR PARTNERS



# ← ACTIVITIES

## Our Last Activities

### Kick-off meeting

In February, DRIVE project's kick-off meeting was hosted in Rotterdam, the Netherlands by the coordinator, TNO. Partners exchanged their expectations on the project and discussed their vision for the forthcoming activities at the start of the project.



### Website launch

The DRIVE website is launched at <https://drive-co2.eu/>. Interested parties can find information on the project, its activities, the consortium, news and may contact the project for further information.



### SUBSCRIBE TO OUR NEWSLETTER

You may subscribe to receive our quarterly project's newsletter [here](#)

#### Newsletter

Sign-up to receive the latest updates on our activities and progress towards a lower carbon future.

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# DRIVE

