

# UKCCSRC Virtual Autumn Conference – panel session Europe

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# Zero Emissions Platform

- European Technology and Innovation Platform under the European Commission's SET-Plan
- Adviser to the EU on the deployment of CCS and CCU
- Broad member base – energy and industry companies, utilities, equipment suppliers, researchers, trade unions, environmental NGOs
- Coordination with other initiatives on national, European and international level
- Go-to organisation to liaise with the European institutions – close cooperation with EU Member State governments



# Reaching climate-neutrality

- EU Climate law – net-zero GHG emissions by 2050
- EU Strategies on Industry, Hydrogen, Energy System integration
- ‘Fit for 55 package’ – reducing GHG emissions by at least 55% by 2030: revision of 13 policy instruments

## Some crucial basics for CCS:

- EU Taxonomy on Sustainable Activities
- EU Emissions Trading System (EU ETS)
- EU ETS Innovation Fund
- EU rules on Trans-European Networks for Energy (TEN-E Regulation) – Projects of Common Interest (PCI) – Connecting Europe Facility funding (CEF)
- Horizon Europe
- Directive on the geological storage of CO2 (CCS Directive)



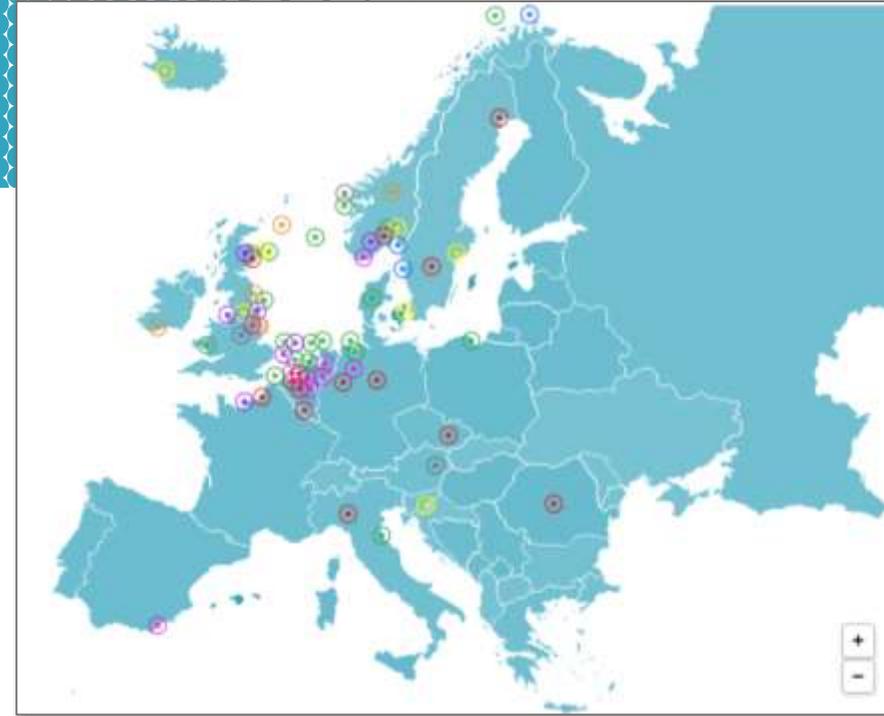
# Market-ready CCUS projects

## Focus on CO2 infrastructure

European “market-ready” CCS and CCU projects: capture, transport, storage, utilisation, low-carbon hydrogen and carbon dioxide removals

European CO2 transport & storage infrastructure – reaching net-zero GHG emissions by 2050 in a cost-efficient and just way

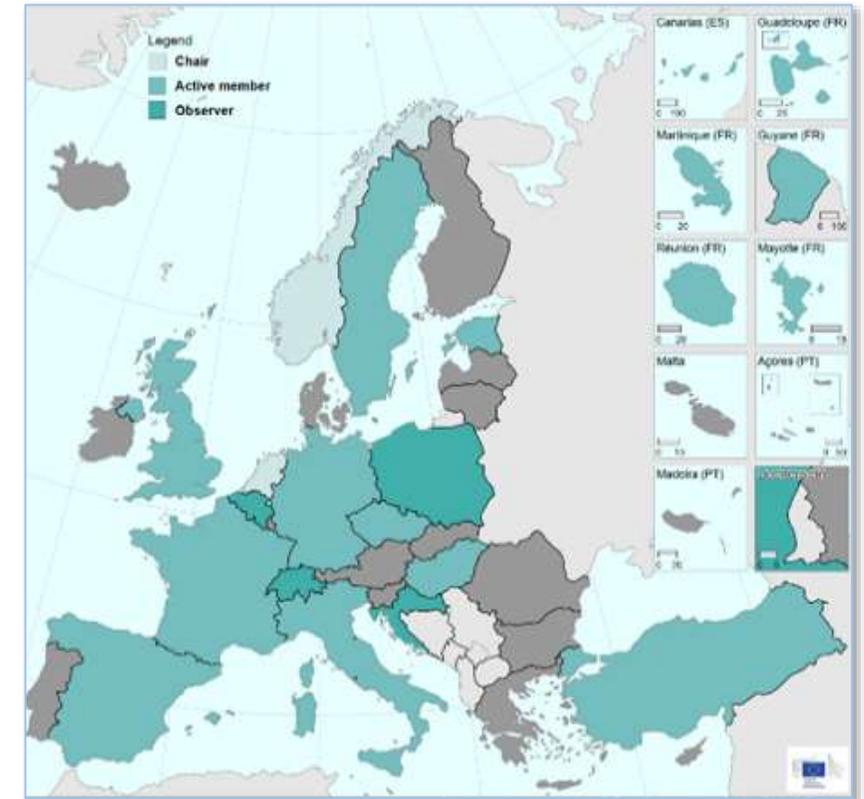
- Enabling all CO2 emitters across Europe to connect to safe geological storage
- CO2 transport by pipeline, ship, barge, truck and train
- 5 cross border CO2 infrastructure Projects of Common Interest on the 4<sup>th</sup> list (eligible for Connecting Europe Facility funding) – 8 projects have applied for the 5<sup>th</sup> list



# The 2020s will be crucial

- Increased climate ambition
- Urgency to develop CCUS, making the technologies investable, and scale up

*European Commission: “zero or very low carbon technologies, including hydrogen and CCUS, will need to be developed and tested at scale in this decade”*
- CCUS SET-Plan Chairs: Norway, the Netherlands, ZEP
- “Market-ready” projects basis for CCUS SET-Plan 2030 targets: 50 MtCO<sub>2</sub>/yr abated by CCS in 2030
- CCUS Roadmap 2030



- **Political recognition** of CCS and CCU technologies and CO2 infrastructure
- **An enabling policy framework** – making it economically feasible to invest in all parts along the CCUS value chain
- **Coherent and coordinated** EU and national funding programs
- **Strong continued support** for CCUS R&I through Horizon Europe and partnerships

Q2 2021

- *EU Taxonomy Delegated Act – mitigation and adaptation*
- *Clean Hydrogen Alliance – Projects’ pipeline*
- *Horizon Europe Work Programme*
- ‘Fit for 55’ package – EU ETS, REDII, ESR, EED, Carbon Border Adjustment Mechanism

Q3 2021

- CCUS Forum – basis for an EU strategy?
- TEN-E regulation revision – European Parliament
- EU ETS Innovation Fund – second call large-scale projects and first call grant award

Q4 2021

- COP26 – CCUS Roadmap
- Hydrogen and gas market decarbonisation package
- Additional Delegated acts – European Taxonomy for Sustainable Activities
- Framework for certification of Carbon Dioxide Removals – stakeholder consultation

# Thank you for your attention!

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