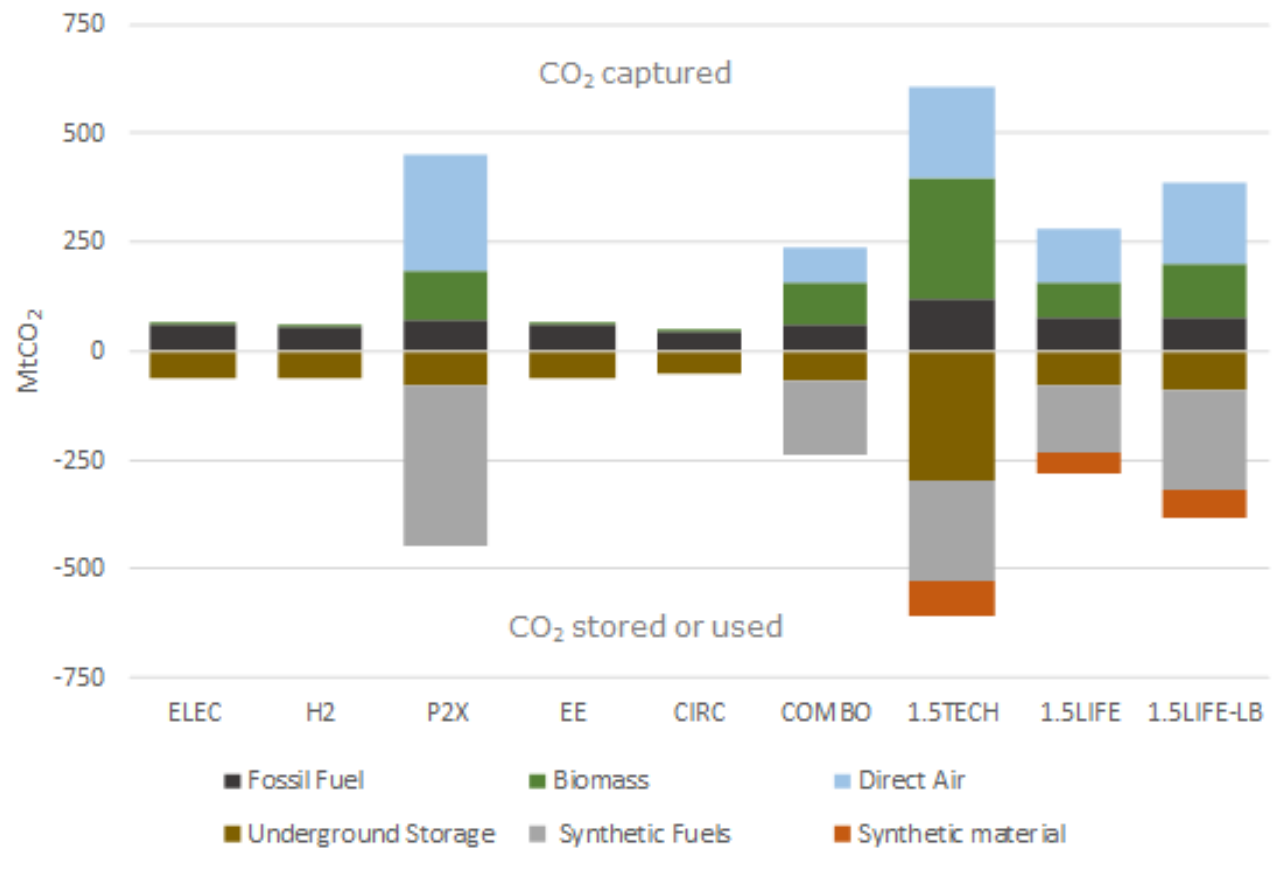




# Towards the Industrial Carbon Management Strategy for the EU

*Chris Bolesta, CCUS Team Leader  
Directorate-General for Energy  
European Commission*

# Green Deal modelling reality

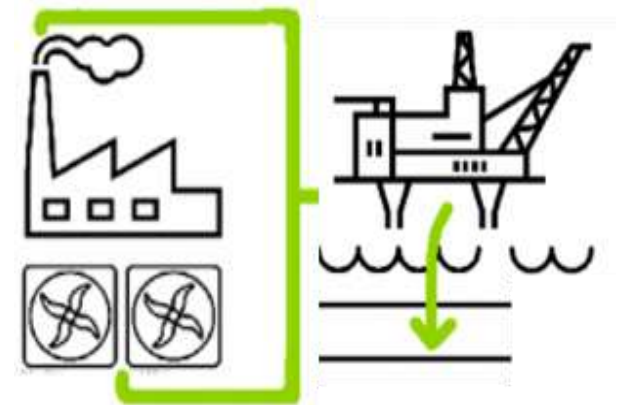


- Hard-to-abate sectors
  - Carbon removals
  - Bridge to H2 market
  - Power sector
  - Fuels and other products
- ... with 0 CO<sub>2</sub> captured in 2030

Source: Scenario Analysis Results for CCUS, Vision for a Clean Planet by 2050

## CCS/CCU speed up

- Net Zero Industry Act proposed 50 Mt storage target
- EU capture projects announced amount to 80 Mt per year
- 23 large-scale capture projects + 18 infra projects could be supported by EC
- Industrial Carbon Management Strategy on the way



# Strategy pillars

CCS

CCU

Industrial Carbon  
Removals



# Driving the Strategy

- Existing legal framework and projects
- Studies on CO<sub>2</sub> transport and storage infrastructure
- Public consultation – wrap up 6 October
- CCUS Forum stakeholder platform
- 2040 Climate Target modelling
- Net Zero Industry Act negotiations

## Legislation in place

- **CCS Directive** - ensures CCS is done safely
- **EU ETS** – carbon price + Innovation Fund
- **Renewables Directive** – CCU
- **Trans-European Energy Networks** – supports investment in CO<sub>2</sub> pipelines and storage
- **EU ‘carbon removal certificates’** framework
- Many more....

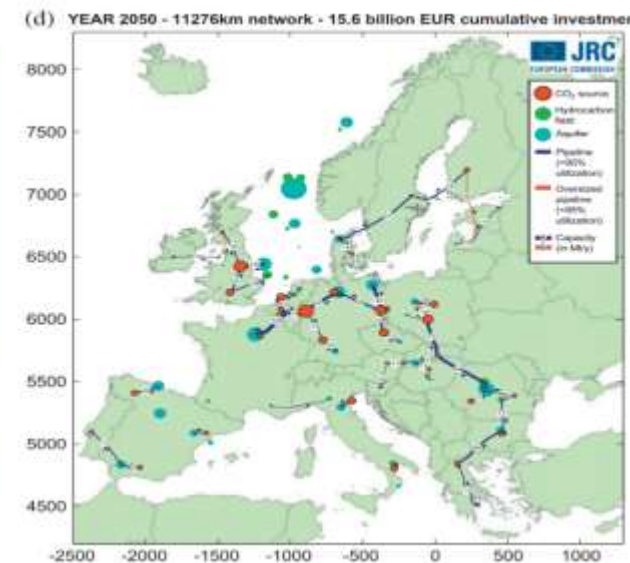
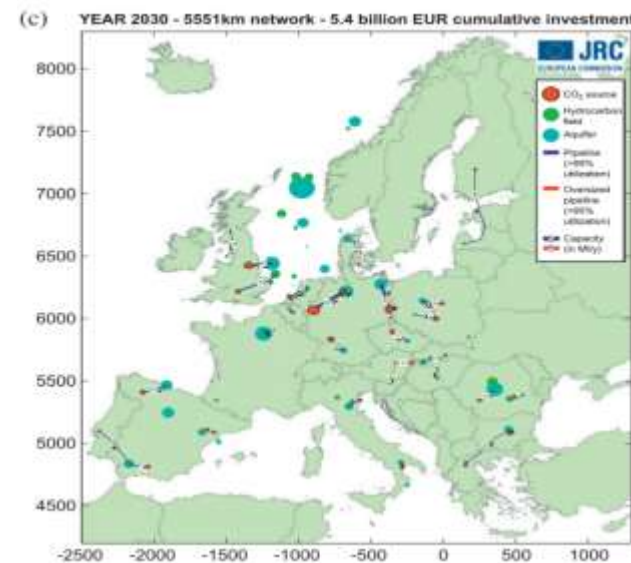
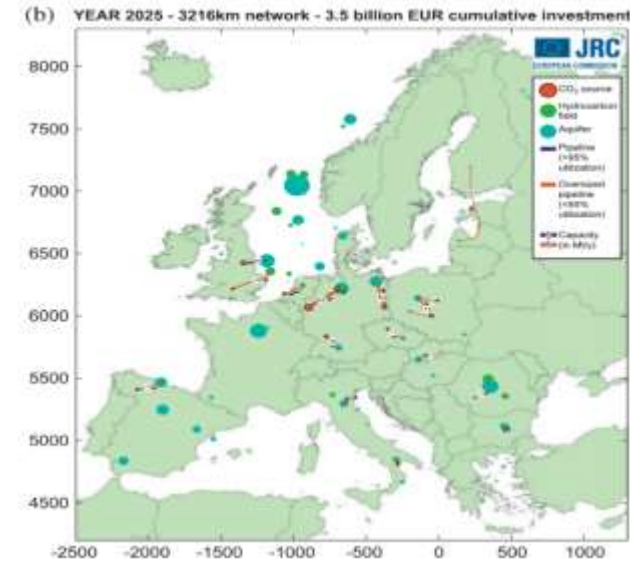
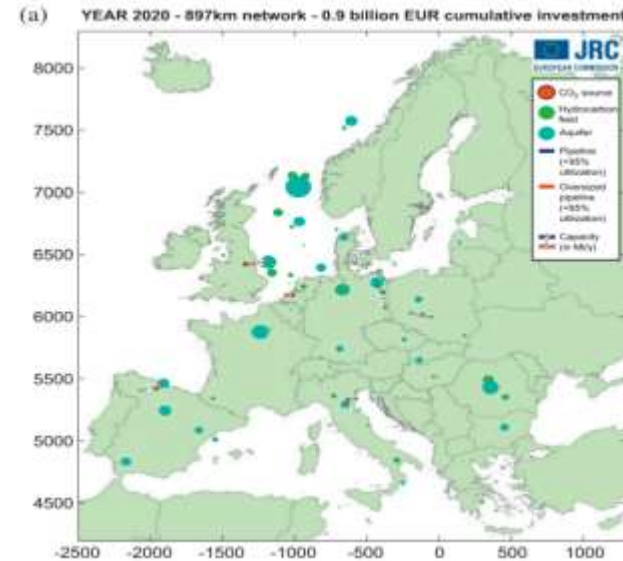
# EU sponsored projects

- ★ 11 Innovation Fund projects
- ◆ ↗ 6 TEN-E projects

+12 further candidate capture projects under IF  
18 candidate transport projects to replace 6 TEN-E projects

# Cross-border CO<sub>2</sub> transport set-up

- Joint Research Centre study
- Scenarios on infrastructure development
- Connecting sources and sinks
- Cost effectiveness driving the model





# CO<sub>2</sub> transport regulation

- Objective: single market for CO<sub>2</sub> transport and storage services
- Open access, transparent, EU-wide
- Regulatory oversight, tariffication, standards, planning



[https://energy.ec.europa.eu/publications/eu-regulation-development-market-co2-transport-and-storage\\_en](https://energy.ec.europa.eu/publications/eu-regulation-development-market-co2-transport-and-storage_en)

# Stakeholder dialogue

- Open Public Consultation
- CCUS Forum Working Groups – 5 issue papers
  - Vision
  - Public awareness
  - Infrastructure & standards
  - Industrial cooperation



# Possible elements of the Strategy 1/2

- Network regulation and planning needs
- Market set-up
- Common CO<sub>2</sub> stream standards



# Possible elements of the Strategy 2/2

- How to speed up storage development
- What kind of CCU we need
- Transitioning away from fossil CO<sub>2</sub> as industry feedstock
- MRV
- Role of industry in CCS/CCU deployment
- Research & international co-operation



# Milestones

- Public consultation wrap up on 6 October
- CCUS Forum plenary – 27-28 November
- NZIA – 1Q 2024
- Strategy published – 1Q 2024

Thank you!

