



# EU Commission policy on CCS and CCU

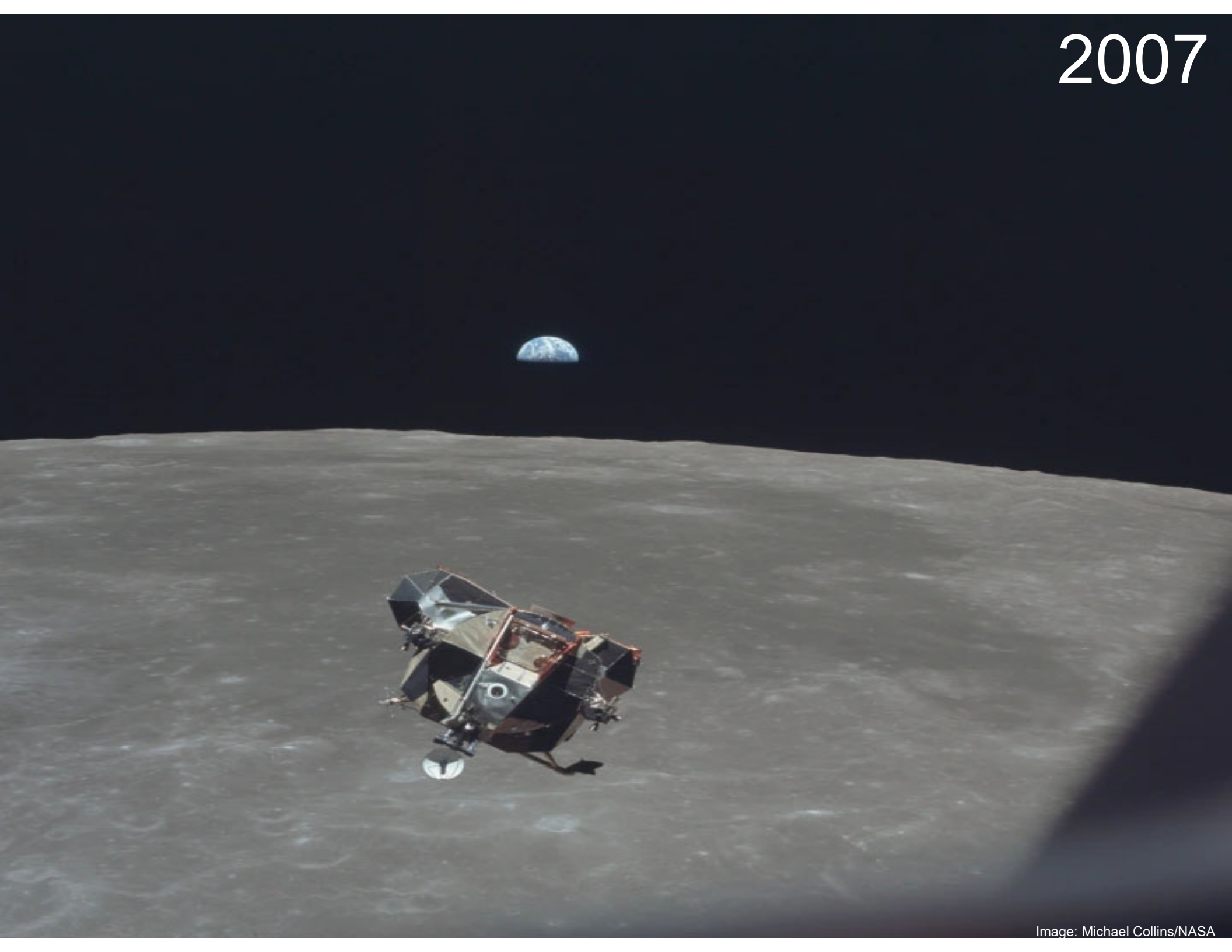
Development, Challenges and  
Opportunities for CCUS in Europe's  
fight against climate change



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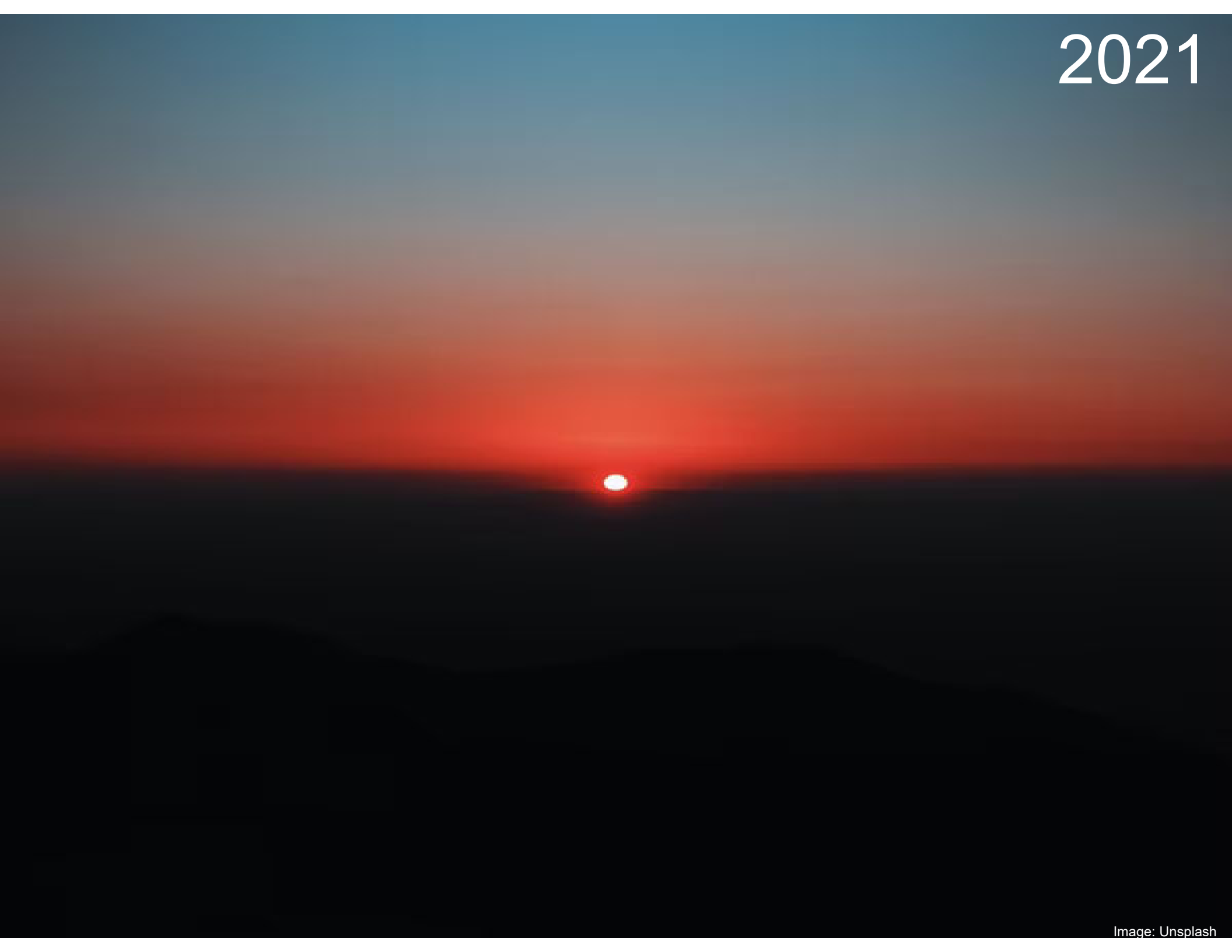
2007



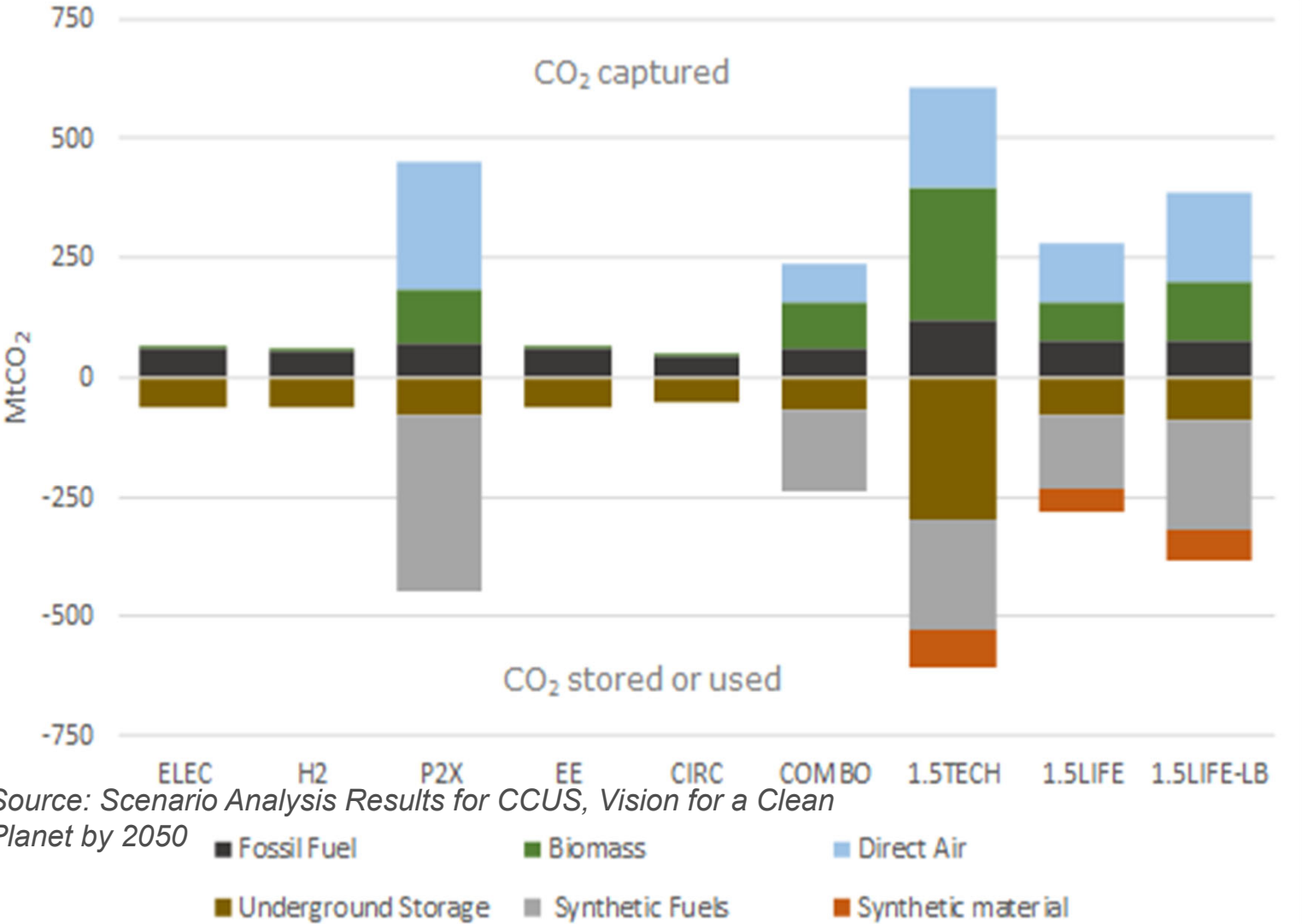
2012



2021



# CCUS necessary for climate neutrality in 2050



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

# Innovation Fund – upgraded funding tool

## **Kairos-at-C - Port of Antwerp (BE)**

- Carbon capture from hydrogen, ammonia and ethylene oxide production and storage in North Sea, innovative shipping

## **BECCS Stockholm (SE)**

- Bio-energy carbon capture at a combined heat and power plant and storage in North Sea – negative emissions

## **K6 (FR)**

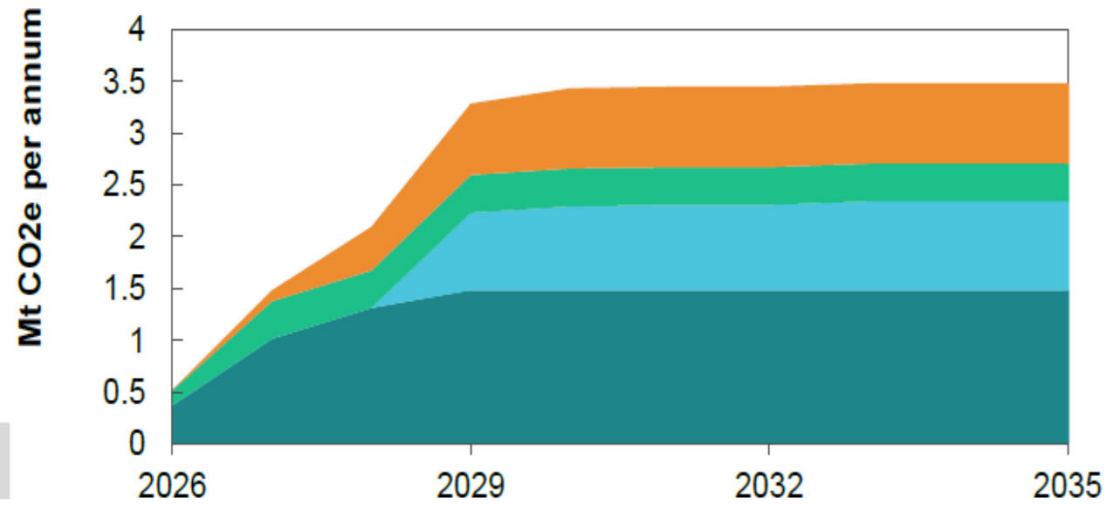
- CCUS at cement plant with storage in North Sea and carbon use for concrete production

## **SHARC (FI)**

- Green hydrogen from water electrolysis and blue hydrogen with CCS, storage in North Sea

# Innovation Fund Projects (Form 1<sup>st</sup> Large Scale Call 2020/21 only)

Approx. 3.5 Mt CO<sub>2</sub> per year from 2029 onwards



Financial close      Entry in operations



Year	2020	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
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# Projects of common interest

5th list published on 19 November 2021

## CO2 TransPorts

- Infrastructure to facilitate large-scale capture, transport and storage of CO2 from Rotterdam, Antwerp and the North Sea Port

## Northern lights

- Commercial CO2 cross-border transport connection project between several European capture initiatives and a storage site on the Norwegian continental shelf

## Athos

- Infrastructure to transport CO2 from industrial areas in the Netherlands

## Aramis

- Cross-border CO2 transport and storage project (intake from emitters in the hinterland of Rotterdam harbour area and storage to location on the Dutch continental shelf)

## Dartagnan

- Multimodal HUB in Dunkirk (emitters from the industrial cluster in the area with storage in the North Sea)

## Poland – EU CCS Interconnector

- Emitters from the industrial cluster in the area around Gdansk to storage in the North Sea



# Next steps key for CCUS

- ✓ Innovation Fund boost
- ✓ 6<sup>th</sup> PCI list with storage eligible - Q4 2023
- ✓ New studies on the CO<sub>2</sub> transport and storage infrastructure – 2023
- ✓ Work on CCUS industrial partnership and a vision document - 2023
- ✓ CCS stakeholders will meet regularly at the CCUS Forum
- ✓ Carbon removals certification proposal – 2022
- ✓ Industry step up



THANK YOU



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