International Association of Oil & Gas Producers

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# $CO_2$ storage projects in Europe

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## Overview of announced $CO_2$ storage projects in Europe

**BULGARIA**
1. ANRAV (IF)

**CROATIA**
1. Sisak Biorefinery*
2. **$CO_2$ EOR Project Croatia***
3. Geothermal CCS Croatia (PCI)

**CZECH REPUBLIC**
1. CCS Moravia

**DENMARK**
1. **Greensand* (FID)**
2. Bifrost* (PCI)
3. Kalundborg CCS
4. Norne (PCI)
5. Ruby
6. Greenstore*

**GREECE**
1. Prinos $CO_2$ Storage Project (PCI)

**HUNGARY**
1. MOL-Hungary CCS Project*
2. Danube Removals (IF)

**ICELAND**
1. **Orca**
2. **Silverstone** (IF)
3. Coda Terminal (IF)
4. **Mammoth**

**ITALY**
1. **Ravenna CCS (includes Callisto)*** (PCI)

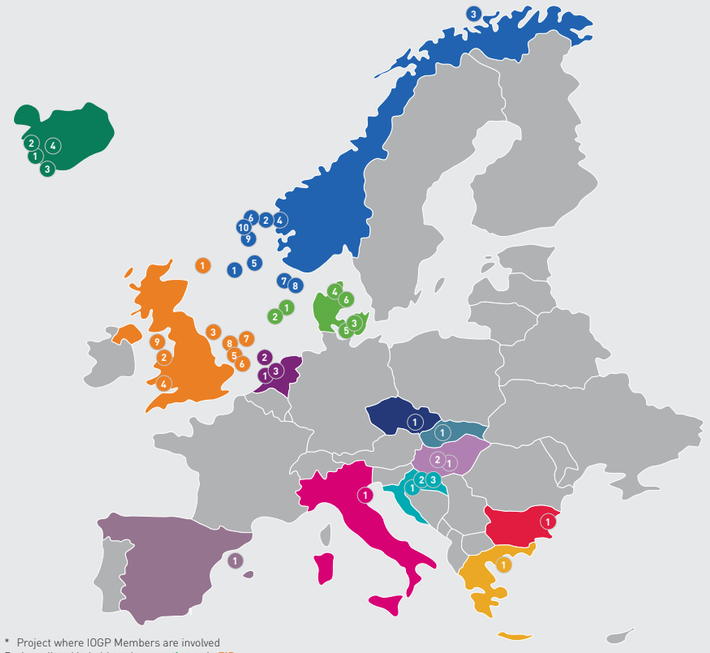
**THE NETHERLANDS**
1. **Porthos*** (PCI) **(FID)**
2. Aramis* (PCI)
3. KOMPAS

**NORWAY**
1. **Sleipner***
2. **Longship (includes Northern Lights)*** (PMI)
3. **Snøhvit***
4. Smeaheia*
5. Trudvang*
6. Luna*
7. Havstjerne* (IF)
8. Poseidon (NO)*
9. Kinno*
10. Atlas*

**SLOVAKIA**
1. CarbonNet Slovakia

**SPAIN**
1. TarraCO2* (IF)

**UK**
1. Acorn*
2. **HyNet* (FID)**
3. **Net Zero Teesside* (FID)**
4. South Wales Industrial Cluster
5. Bacton Thames Net Zero*
6. Poseidon (UK)*
7. Viking CCS*
8. Orion*
9. Morecambe Net Zero Cluster



* Project where IOGP Members are involved
Projects listed in bold are in **operation** or in **FID**
(FID) – Final Investment Decision
(PCI) – Project of Common Interest
(PMI) – Project of Mutual Interest
(IF) – Project supported by the EU Innovation Fund

**EU**
**Total projects -** 20
**Countries -** 10
**FID -** 2,9 $CO_2$/year
**Operational -** 0,68 $CO_2$/year

**Europe**
**Total projects -** 43
**Countries -** 13
**FID -** 16,4 $CO_2$/year
**Operational -** 3,94 $CO_2$/year

## European Union

**0,68** Mt $CO_2$ / YEAR IN OPERATION
0,025 ELIGIBLE UNDER NZIA

**2,9** Mt $CO_2$ / YEAR IN FID

**20** $CO_2$ STORAGE PROJECTS

**10** COUNTRIES WITH $CO_2$ STORAGE PROJECTS

## Europe

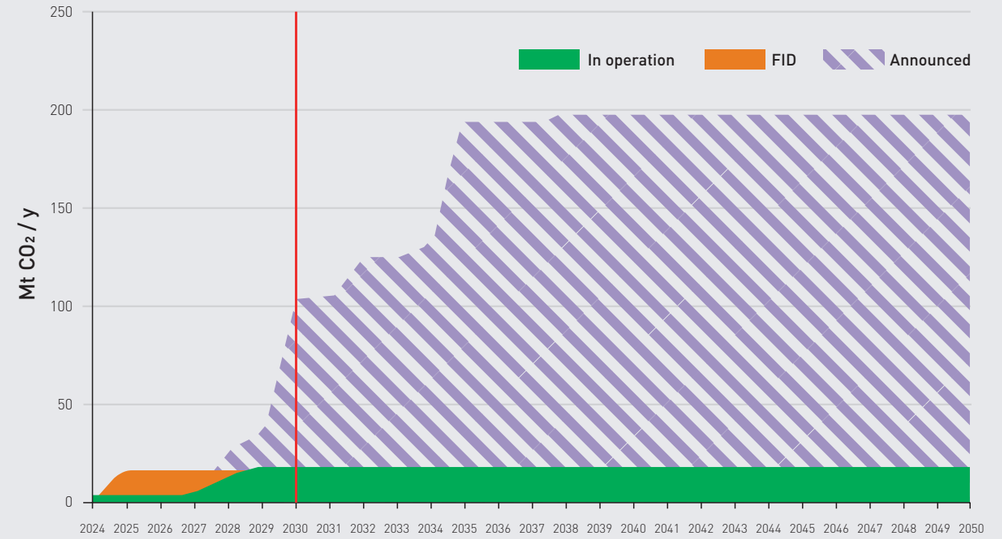
**3,94** Mt $CO_2$ / YEAR IN OPERATION

**16,4** Mt $CO_2$ / YEAR IN FID

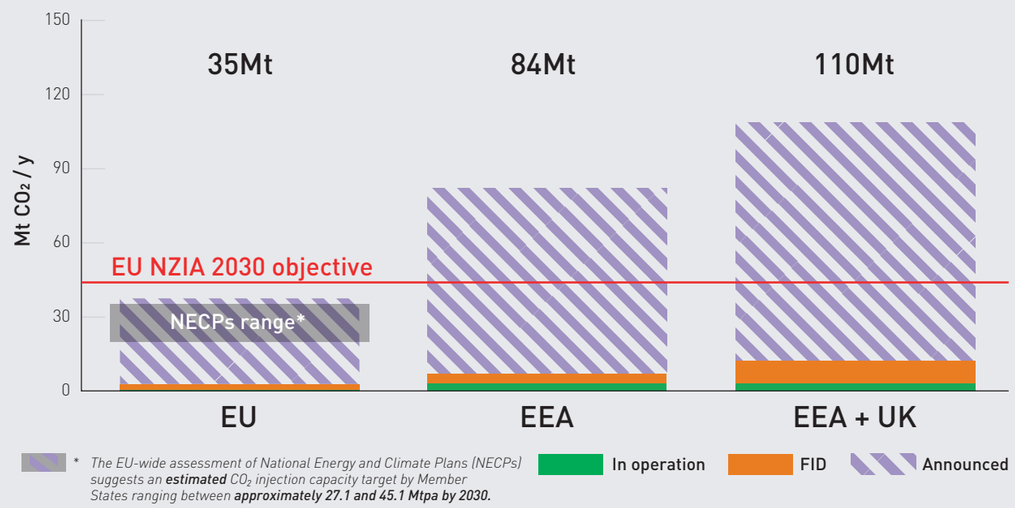
**43** $CO_2$ STORAGE PROJECTS

**13** COUNTRIES WITH $CO_2$ STORAGE PROJECTS

## Build-up of $CO_2$ storage injection capacity in Europe




## Regional breakdown of $CO_2$ storage injection capacity by 2030




* *The EU-wide assessment of National Energy and Climate Plans (NECPs) suggests an **estimated** $CO_2$ injection capacity target by Member States ranging between **approximately 27.1 and 45.1 Mtpa by 2030.***

*This map should not be interpreted as a guarantee of future outcomes.*
*The deployment, scale, and timing of these projects represent best-case scenarios and are contingent upon the successful implementation of supportive commercial frameworks, permitting processes, and enabling policy measures.*

# Carbon Capture, and Storage

CCS is a set of technologies that enable the Capture, Transport and Storage of $CO_2$.

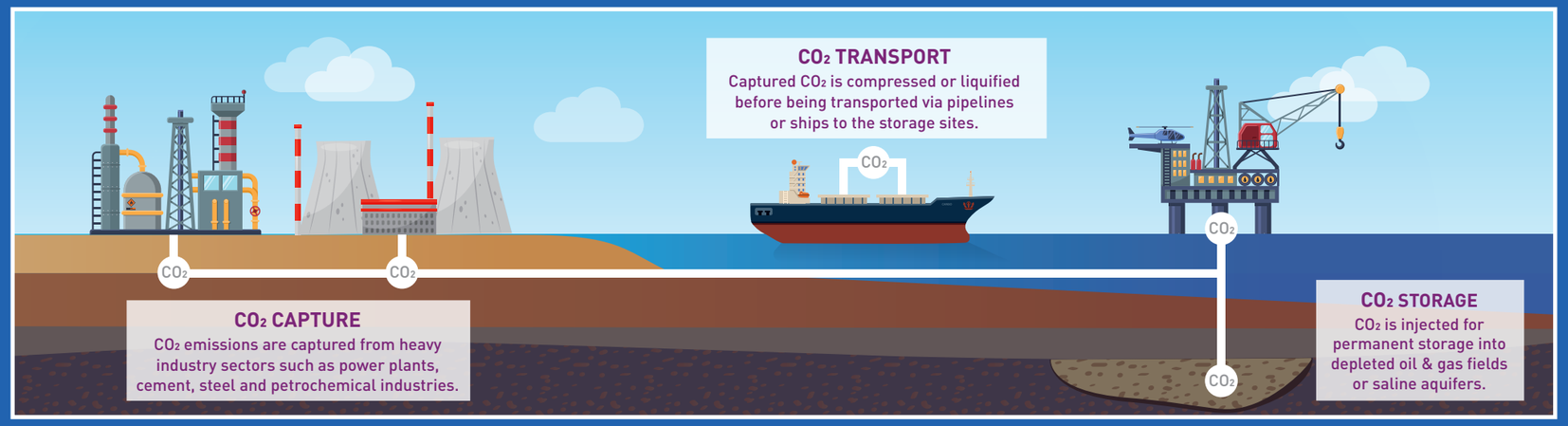
CCS is a proven and safe technology. $CO_2$ has been captured, transported and stored in Europe successfully since 1996 (Sleipner project, Norway).

It is a key technology for Europe to meet climate neutrality.

More CCS resources at iogpeurope.org

## How it works

### The 3 segments of the CCS value chain




**CCS be deployed at scale, often repurposing existing infrastructures**

## Where can CCS make a difference?

### Decarbonisation of hard-to-abate industries

In the EU, steel, cement, chemical and refining sectors emit 37% of total $CO_2$ industrial emissions. CCS is one of the only technological options to enable emission reductions in hard-to-abate industries.

### Energy transition

CCS can be applied to gas-fired power plants which provide flexibility to an electricity grid with a higher share of intermittent renewables.

### Low carbon hydrogen production

Hydrogen production based on natural gas decarbonized with CCS is the most cost-effective. It can supply industrial sectors and decarbonize sectors which cannot be electrified such as aviation and maritime transport.

### Negative emissions

Large scale negative emissions can be achieved when BioEnergy production is combined with CCS (BECCS) or when Direct Air Capture is combined with CCS (DACCS).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