International Association of Oil & Gas Producers

www.iogpeurope.org

IOGP Europe
Avenue de Tervueren 188A,
B-1150 Brussels, Belgium
T: +32 (0)2 790 7762
E: reception-europe@iogp.org

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CO_2 storage projects in Europe

Overview of announced CO_2 storage projects in Europe

BULGARIA
1. ANRAV (IF)

CROATIA
1. Petrokemija Kutina*
2. Bio-Refinery Project*
3. CCGeo (IF)
4. **CO_2 EOR Project Croatia***
5. Geothermal CCS Croatia (PCI)
6. KOdeCO (IF)

CZECH REPUBLIC
1. CCS Moravia

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

FRANCE
1. Pycasso* (PCI)

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**

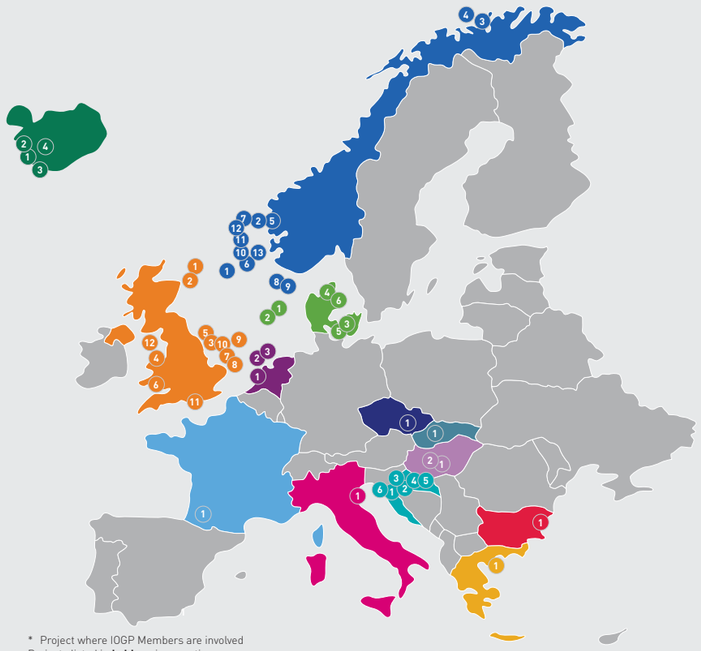
ITALY
1. **Ravenna CCS (includes Callisto)*** (PCI)

THE NETHERLANDS
1. Porthos* (PCI)
2. Aramis* (PCI)
3. L10 CCS*

NORWAY
1. **Sleipner***
2. **Longship (includes Northern Lights)*** (PMI)
3. Barents Blue (includes Polaris)
4. **Snøhvit***
5. Smeaheia*
6. Trudvang*
7. Luna*
8. Havstjerne* (IF)
9. Poseidon (NO)*
10. Iroko*
11. Kinno*
12. Atlas*
13. Albondigas*

SLOVAKIA
1. Engas CCS

UK
1. Acorn*
2. Caledonia Clean Energy
3. Zero Carbon Humber*
4. HyNet*
5. Net Zero Teesside*
6. South Wales Industrial Cluster
7. Bacton Thames Net Zero*
8. Poseidon (UK)*
9. Viking CCS*
10. Orion*
11. Solent Cluster*
12. Morecambe Net Zero Cluster

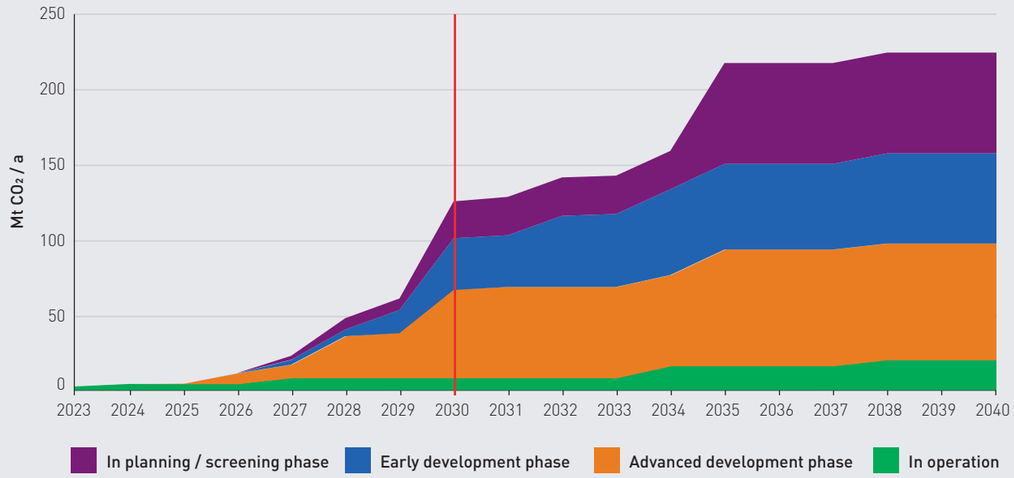


* Project where IOGP Members are involved
Projects listed in **bold** are in operation

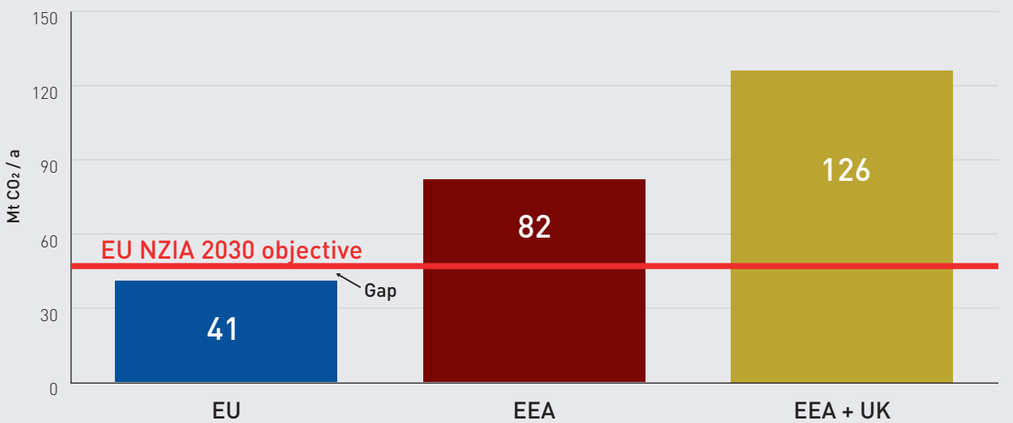
(PCI) – Project of Common Interest
(PMI) – Project of Mutual Interest
(IF) – Project supported by the EU Innovation Fund

EU	**23 projects** - 41 $MtCO_2$/yr by 2030
Europe	**52 projects** - 126 $MtCO_2$/yr by 2030

Build-up of CO_2 storage injection capacity in Europe



Regional breakdown of CO_2 storage injection capacity by 2030



Key numbers

EU

23 CO_2 STORAGE PROJECTS

10 COUNTRIES WITH CO_2 STORAGE PROJECTS

41 MT CO_2/YEAR
CO_2 storage injection capacity by 2030

Europe

52 CO_2 STORAGE PROJECTS

13 COUNTRIES WITH CO_2 STORAGE PROJECTS

126 MT CO_2/YEAR
CO_2 storage injection capacity by 2030

Carbon Capture, and Storage

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

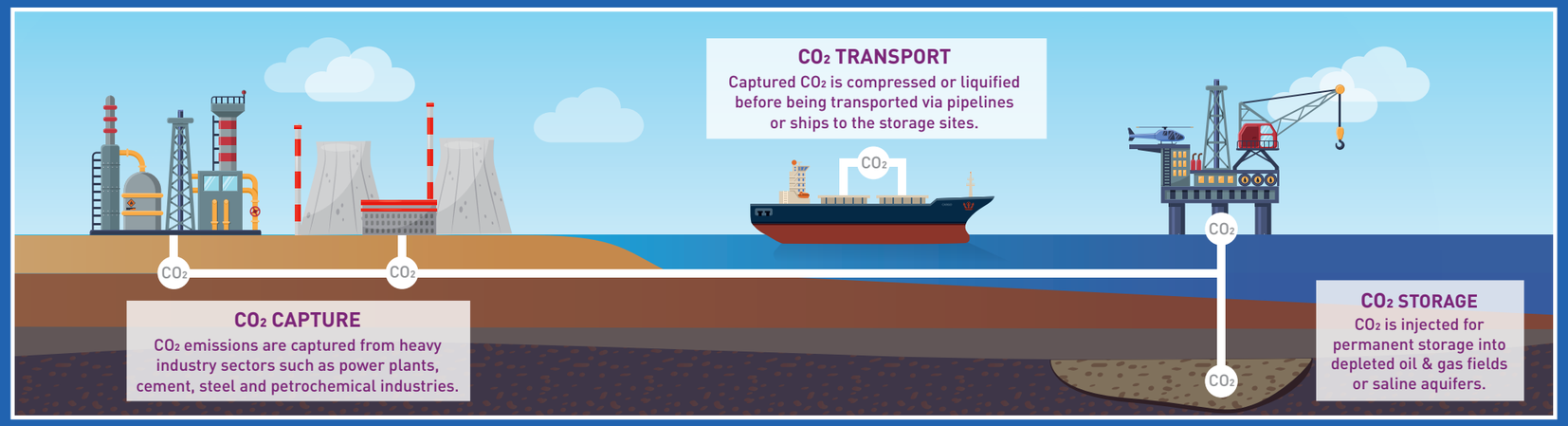
CCS is a proven and safe technology. CO_2 has been captured, transported and stored in Europe successfully since 1996 (Sleipner project, Norway).

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).

A European CO_2 storage ambition

IOGP Europe promotes an ambition on CO_2 storage injection capacity availability.

Ambition level of 0.5 to 1.0 $GtCO_2$ storage availability per year by 2050

Scope covering EU, EEA and the UK

Requires a comprehensive EU policy framework

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IOGP Europe
Avenue de Tervueren 188A, B-1150 Brussels, Belgium
T: +32 2 882 16 53
E. reception-europe@iogp.org

IOGP Headquarters
City Tower, 40 Basinghall Street, London EC2V 5DE, United Kingdom
T: +44 20 4570 6879
E: reception@iogp.org

www.iogpeurope.org
www.iogp.org