

CCUS projects in Europe

Overview of existing and planned CCUS facilities

AUSTRIA

1. Vienna Green CO₂*

BELGIUM

1. Leilac (pilot capture only)
2. Antwerp@C (Port of Antwerp)*
3. Carbon Connect Delta†
4. Flite*
5. C4U
6. North-CCU-Hub
7. Power-to-Methanol Antwerp BV
8. Kairos@C

CROATIA

1. iCORD*
2. Bio-Refinery Project*

CZECHIA

1. Onshore storage project

DENMARK

1. Greensand*
2. C4: Carbon Capture Cluster Copenhagen
3. Copenhill

FINLAND

1. SHARC

FRANCE

1. DMX Demonstration in Dunkirk*
2. Pycasso*
3. K6 Program

GERMANY

1. H2morrow*
2. Leilac 2
3. Wilhelmshaven

GREECE

1. Energean Carbon Storage

ICELAND

1. Orca
2. Hellisheidi
3. Silverstone

ITALY

1. CCS Ravenna Hub*
2. Cleankerk

THE NETHERLANDS

1. Porthos (Port of Rotterdam)*
2. Aramis (Den Helder)*
3. Magnum (Eemshaven)*
4. H-Vision*
5. Twence
6. AVR-Duiven
7. Project Everest*
8. Vlissingen Cryocap FG

NORWAY

1. Sleipner CO₂ Storage*
2. Longship (including Northern Lights)*
3. Polaris CCS*
4. Norsk e-fuel
5. Borg CO₂*
6. Fortum Oslo Varne
7. Barents Blue*
8. Norcem Brevik
9. Pilot CCS project

POLAND

1. Poland EU CCS Interconnector

REPUBLIC OF IRELAND

1. ERVIA

ROMANIA

1. Onshore storage project

SPAIN

1. CCU Lighthouse Carboneras

SWEDEN

1. Preem CCS*
2. Cementa Slite Plant
3. Vattenfall Uppsala
4. CinfraCap
5. BECCS@STHLM

UK

1. Acorn*
2. Caledonia Clean Energy
3. Zero Carbon Humber*
4. HyNet*
5. Netzero Teesside*
6. South Wales Industrial Cluster
7. STEMM-CCS*
8. CO₂ Sapling Transport Infrastructure Project
9. Northern Endurance Partnership*
10. H2Teesside*
11. H2H Saltend*



* Project where IOGP Members are involved
 † Project is cross-border with the Netherlands
 Projects listed in **bold** are in operation

Total number of projects: **65**
 Around 60 MtCO₂/yr stored by 2030

LOCATION	PROJECT NAME	PROJECT TYPE	DESCRIPTION	CO ₂ CAPTURED/YEAR	STARTING DATE (OPERATION)	STATUS OF THE PROJECT	PARTICIPANTS	IOGP MEMBERS INVOLVED
Austria	ViennaGreenCO2	Pilot Power & Capture	New, low temperature solid sorbent CO ₂ capture technology. Separation process to capture CO ₂ from exhaust gases.	N/A	2018	Pilot phase completed	Shell	Shell
Belgium	Leilac	Industrial Capture	Cement plant carbon capture (pilot project)	N/A	2018-2020	2-year CO ₂ capture test	HeidelbergCement, Calix	
	Antwerp@C (Port of Antwerp)	Industrial Capture	CCS-equipped industrial cluster, CO ₂ transportation and storage in the North Sea and reuse	9 Mtpa	N/A	Feasibility study	Air Liquide, BASF, Borealis, INEOS, ExxonMobil, Fluxys, Port of Antwerp and TotalEnergies	ExxonMobil, TotalEnergies
	Carbon Connect Delta	Industrial capture	With CCUS, CO ₂ emissions can be reduced by 30% in the port area of North Sea Port. A consortium of Belgian and Dutch companies expects to complete the Carbon Connect Delta feasibility study at the end of 2020, after which the project will be further developed for realization. The consortium works simultaneously across industrial sectors (chemicals, petrochemicals and steel), as well as with relevant governments in both countries to create unique synergies and opportunities.	1 Mt by 2023, 6,5 Mt by 2030	2023	Pre-feasibility	Smart Delta Resources, North Sea Port, ArcelorMittal, Dow Benelux, PZEM, Yara, Zeeland Refinery, Gasunie, Fluxys	
	Flite	Industrial Capture	Sustainable Aviation Fuel (SAF) from ethanol produced from steel-mill off-gases. (44 million litres of SAF using sustainable ethanol as feedstock).	CCU at the Steelanol plant will convert 500 million Nm ³ /year of carbon-rich industrial off-gases to sustainable ethanol.	2025 (first phase)	N/A	LanzaTech BV, LanzaJet ATJ, SkyNRG, Port of Antwerp, TotalEnergies Raffinaderij Antwerpen, Flanders Investment & Trade, International Airlines Group, ArcelorMittal, Mitsui & Co. LTD, RSB, Airbus, E4tech	TotalEnergies
	C4U	Industrial Capture	Demonstration of two highly energy-efficient high-temperature solid- sorbent CO ₂ capture technologies for steel industries.	N/A	2024	Feasibility study	ArcelorMittal	
	North-CCU-Hub	Power & Capture, Industrial Capture	Demo plant to mproduce green methanol from renewable energy, green hydrogen and CO ₂ as feedstock.	N/A	2024 (demo plant)	Joint Development Agreemented for first large scale demo signed	UGent (CAPTURE), Bio Base Europe Pilot Plant, Cleantech Flanders, POM Oost-Vlaanderen, ENGIE, ArcelorMittal, Anglo Belgian Corporation, Alco Bio Fuel, Oiltanking, Terranova Solar, Fluxys	
	Power-to-Methanol Antwerp BV	Power & Capture, Industrial Capture	Methanol from renewable hydrogen and CO ₂ from point sources.	0.011Mtpa	2023 (first phase)	N/A	ENGIE, Fluxys, Indaver, INOVYN, Oiltanking, Port of Antwerp, Vlaamse Milieuholding	
	Kairos@C	Industrial Capture	The joint project has been selected for funding by the European Commission through its Innovation Fund, as one of the seven large-scale projects out of more than 300 applications. The large-scale CO ₂ capture layout will be a first-of-its-kind multi-feed scheme, which optimises and integrates CO ₂ capture and purification from 5 different production units: 2 hydrogen plants, 2 ethylene oxide plants, and 1 ammonia plant. Kairos@C will use the services of the Antwerp@C consortium, which is developing a multi-modal infrastructure to transport CO ₂ to multiple permanent storage sites around the North Sea.	1.42 Mtpa	N/A	N/A	Air Liquide, Large Industry SA, BASF, Antwerpen NV	

LOCATION	PROJECT NAME	PROJECT TYPE	DESCRIPTION	CO ₂ CAPTURED/YEAR	STARTING DATE (OPERATION)	STATUS OF THE PROJECT	PARTICIPANTS	IOGP MEMBERS INVOLVED
Croatia	iCORD	Industrial Capture	Capturing the CO ₂ produced at a fertilizer plant at Location in central Croatia and at a concrete production plant at Location in eastern Croatia, and storing it at Moslavina basin oil fields and Pannonia basin oil fields as part of INA EOR project.	Approx. 1Mt/y	2025	Feasibility Study to be ordered by end of 2019, FS to be prepared by end of Q3 2020.	INA MOL	MOL
	Bio-Refinery Project	Industrial Capture	Bio-Refinery plant (bio-Ethanol production) on the Sisak Refinery location (Sisak-Moslavina County, Sisak 60 km from Zagreb). On the existing pipeline route, new pipe of 16 km will be built for CO ₂ storage, for the yearly production of 60 kt of CO ₂ , plus potential 300-400 kt of biogenic CO ₂ from CHP.	0,06 Mt/y (additional potential on location 300-400 kt)	2024	Signing the contracts for basic design and technology selection	INA MOL	MOL
Czechia	Onshore storage project	Industrial Capture, and Storage	Including capture of emissions in cement plants.	N/A	2024/2025	N/A	HeidelbergCement	
Denmark	Greensand	CO ₂ Storage	In Phase 1, the Greensand consortium demonstrated the viability of the development of a CO ₂ storage site. The assessment was certified by DNV. The storage potential is 0,5 – 1 million tons of CO ₂ per year from 2025, increasing to 4 – 8 million tons of CO ₂ per year by 2030. Planned FID in the second half of 2023.	8 Mtpa	2025	Pilot phase planning commenced	INEOS, Wintershall Dea, Aalborg Portland, Aker Carbon Capture, Blue Water Shipping, DanUnity, DFM, DHI, DTU, Energy Cluster Denmark, Esvagt, Geelmuyden Kiese, GEUS, Ineos Energy, Oxide, Maersk Drilling, Magesis Fairfield, Makeen Energy, NLIR, NOC, Rambøll, Resen Waves, SAExploration, Schlumberger, Semco Maritime, Southampton University, SpotLight, Teknologisk Institut, Welltec, WindPowerLab	Wintershall Dea, Schlumberger
	C4: Carbon Capture Cluster Copenhagen	Power & Capture, Storage	The C4 cluster wants to work on converting CO ₂ into green fuels as well as storing excess carbon off site, for instance in depleted oil and gas fields under the Danish North Sea. The companies have also set out to come up with infrastructural solutions, for instance, a method for transmitting CO ₂ further along from carbon-capture centers. Several consortium parties have already set off to establish full-scale CCS plants in 2025. Awaiting for an actual political strategy in Autumn 2021.	3 Mtpa	N/A	Feasibility Study	Ørsted, ARC, Høfor, Vestforbrænding, Argo, Biofos, Copenhagen Malmö Port, CTR and Veks	
	Copenhill	Waste to energy	Advanced CCS facility at ARC's Amager-Bakke waste-to-energy facility.	0.5 Mtpa	2025	Advanced development	Amager Resource Center	
Finland	SHARC - Sustainable Hydrogen and Recovery of Carbon	Power & Capture	The SHARC will reduce emissions at the Porvoo refinery, Finland by moving from grey hydrogen towards green hydrogen through the introduction of electrolysis facilities and blue hydrogen by application of carbon capture and storage (CCS).	N/A	N/A	N/A	Neste Oyj	
France	DMX Demonstration in Dunkirk	CO ₂ capture and storage	Capture from iron and steel production	3 Mtpa	2022		ArcelorMittal, Axens, TotalEnergies, ACP, Breivik Engineering, CMI, DTU, Gassco, RWTH, Uetikon	TotalEnergies
	Pycasso (Pyrenean Carbon Abolition through Sustainable Sequestration Operations)	CO ₂ capture, transport and storage	Industrial capture	1Mtpa	2030	Concepts studies undertaken	Avenia, CAPBP, Teréga, Schlumberger, Lafarge, Repsol, UPPA, BRGM, IFPEN, Sofresid, Geostock, SNAM	Repsol, Schlumberger
	K6 Program	Industrial Capture	The programme aims to maximise biomass and other alternative fuels, while using an oxy-fuel kiln with carbon capture, reducing overall CO ₂ production by more than 90%. Some reuse of the CO ₂ will be made within concrete production and otherwise there will be storage of it in the North Sea.	0.8 Mtpa	N/A	N/A	EQUOM, Air Liquide, and VDZ	

LOCATION	PROJECT NAME	PROJECT TYPE	DESCRIPTION	CO ₂ CAPTURED/YEAR	STARTING DATE (OPERATION)	STATUS OF THE PROJECT	PARTICIPANTS	IOGP MEMBERS INVOLVED
Germany	H2morrow	Natural gas-to-H ₂ (pre-combustion)	Reforming natural gas imported from Norway to hydrogen with CO ₂ capture and storage offshore. Supplying industry and other end users in North Rhine-Westphalia with 8.6 terawatt hours of hydrogen per year from decarbonised natural gas.	1.9 Mtpa	2027	Feasibility study	Equinor, OGE	Equinor
	Leilac 2	Industrial Capture	The LEILAC2 project aims to scale-up the direct separation technology developed and tested in LEILAC1 and to build a Demonstration Plant that will separate 20% of a regular cement plant's process emissions.	0.1Mtpa	2025	Design phase	HeidelbergCement	
	CO₂ liquefaction and buffer storage in Wilhelmshaven	CO ₂ transport and storage		4.3 Mtpa	N/A	N/A	European Energy Logistics Park	
Greece	Energiean Carbon Storage	CO ₂ Storage	CO ₂ Storage	2.5 Mtpa	N/A	Proposal submitted to Greek government	Energiean	
Iceland	Orca	Direct air capture	Orca will combine Climeworks' direct air capture technology with the underground CO ₂ storage provided by Carbfix, capturing 4,000 tons/yr of CO ₂ - making the largest direct air capture plant to date. The energy required to run the direct air capture process will be provided by ON Power's nearby Hellisheidi Geothermal Power Plant.	4,000 tonnes	2021	In operation	Carbfix, Climeworks, ON Power	
	Hellisheidi	Industrial capture	The industrial scale capture at the Hellisheidi Geothermal Power Plant in Iceland has significantly reduce CO ₂ and H ₂ S emissions from the power plant since 2014, following successful pilot-scale injections in 2012. The gases are co-captured in a scrubbing tower with annual capacity of about 12,000 tonnes of CO ₂ and 6,000 tonnes of H ₂ S, about 30% and 75% of the plant's emissions respectively. Cost of industrial scale operations at Hellisheidi are less than \$25/ton.	12,000 tonnes	2014	In operation	Carbfix, ON Power	
	Silverstone	CO ₂ capture and storage	The project, which has received a grant of 3.9 million euros from the EU Innovation Fund, aims to scale up current carbon capture and mineral storage operations at the Hellisheidi geothermal plant, reaching near-zero carbon footprint. Through the Carbfix technology, CO ₂ will be dissolved in water and injected underground where it will be permanently and safely stored.	0.034 Mtpa	2025	N/A	Carbfix, ON Power	
Italy	CCS Ravenna Hub	CO ₂ capture, transportation, and storage	CO ₂ capture, transportation, and storage in North of Italy (Pianura Padana Area) to Ravenna industrial complex. Estimated storage capacity of 500 million tonnes	0.04-4.0 Mtpa phased programme	Demonstration startup expected in 2023 and full startup in 2027	Demonstration phase FEED - industrial phase feasibility	Eni	Eni
	Cleankerk	Industrial Capture	Demonstration system in cement plant of calcium-looping process for CO ₂ capture.	N/A	2021	N/A	HeidelbergCement, Bucci Unicem	
The Netherlands	Porthos (Port of Rotterdam)	Industrial Capture	CCS-equipped industrial cluster, CO ₂ transportation and storage in the North Sea	Approx. 5 Mtpa	2024	Feasibility study	Gasunie, the Port Authority and EBN	BP, Shell
	Aramis (Den Helder)	Industrial Capture	CO ₂ supplied by third parties from Den Helder and stored in the North Sea floor. This CO ₂ can be brought to Den Helder by boat or by pipeline (for example from IJmuiden)	5Mtpa	Early 2026	N/A	TotalEnergies, Shell	TotalEnergies, Shell
	Magnum (Eemshaven)	Natural Gas-to-H ₂ (pre-combustion)	CCS-equipped production of hydrogen for power generation, CO ₂ transportation and storage in the North Sea	Approx. 4 Mtpa	2024	Feasibility study	Equinor, Vattenfall, Gasunie, MHPS	Equinor

LOCATION	PROJECT NAME	PROJECT TYPE	DESCRIPTION	CO ₂ CAPTURED/YEAR	STARTING DATE (OPERATION)	STATUS OF THE PROJECT	PARTICIPANTS	IOGP MEMBERS INVOLVED
The Netherlands	H-Vision	Power & Capture	CO ₂ capture from blue hydrogen production.	2.2Mtpa to 4.3Mtpa	2026	N/A	Deltalinqs, TNO, Air Liquide, BP, EBN, Engie, Equinor, Gasunie, GasTerra, Linde, OCI Nitrogen, Port of Rotterdam authority, Shell, TAQA, Uniper and Koninklijke Vopak	BP, ExxonMobil, Equinor, Shell
	Twence Waste-to-energy CO₂ Capture and Utilisation	Power & Capture	The CO ₂ extraction from the flue gas scrubbing of energy from waste plant.	0.002-0.003Mtpa	2014	In operation		
	AVR-Duiven	CO ₂ capture pilot project	CO ₂ captured from energy-from-waste company and supplied to greenhouse horticulturists.	0.1Mtpa	2019	In operation	AVR	
	Project Everest	CO ₂ capture	CO ₂ capture from the steel industry.	5.5 Mtpa	N/A	N/A	Tata Steel, Dutch Government	
	Vlissingen Cryocap FG	Offshore storage	CO ₂ capture from hydrogen production.	0.8 Mtpa	N/A	N/A	Air Liquide, TotalEnergies, Lukoil	TotalEnergies
Norway	Sleipner CO₂ Storage	Industrial Capture	CCS-equipped natural gas production, CO ₂ directly injected into North Sea reservoirs	Approx. 1 Mtpa, and over 17 million tonnes has been injected since inception to date.	1996	Operational	Equinor (operator) Vår Energi, TotalEnergies	Equinor, Vår Energi, TotalEnergies
	Longship (including Northern Lights)	Industrial Capture	Capturing CO ₂ from HeidelbergCement Norcem's cement factory in Brevik and Fortum Oslo Varme's waste incineration facility in Oslo and transporting it for offshore storage in the North Sea basin. Equinor, Shell and TotalEnergies form the transport and storage consortium of Northern Lights.	0.8 Mtpa from possible 2 industrial plants: cement and waste to energy	2023–2024	Final Investment Decision (FID)	Shell, Equinor, TotalEnergies	Shell, Equinor, TotalEnergies
	Polaris CCS	CO ₂ Storage	Total carbon storage capacity in excess of 100 million tons.	N/A	Commencement of construction in the second half of 2022	Concept phase	Baker Hughes, Horisont Energi	Baker Hughes
	Norsk e-fuel	Power & Capture	Co-electrolysis of CO ₂ (from DAC and point sources) and water with renewable electricity for synthetic liquid hydrocarbons	0.025 - 0.25 Mtpa	2026	N/A	Sunfire GmbH, Climeworks AG, Paul Wurth SA, Valinor	
	Borg CO₂	CO ₂ capture	CO ₂ capture from a cluster of 4-6 industrial sites	0.63 Mtpa	N/A	N/A	Borg Havn, FREVAR KF, NORSUS, Kvitebjørn Bio-El, Fortum Oslo Varme, EGE Oslo, Stormkast Utvikling, Equinor, IFE, CO ₂ Capsol, Borregaard, Acinor, Compact Carbon Capture, Biobe, Norske Skog Saugbrugs, Østfold Energi, Geminor and Sarpsborg Avfallsenergi	Equinor
	Fortum Oslo Varne	CO ₂ capture	CO ₂ capture from waste	0.4 Mtpa	N/A	FEED complete, shovel ready	Fortum	
	Barents Blue	Power & Capture	CO ₂ capture from one of the largest ammonia plants in the world	N/A	Mid 2020s	Early development	Horisont Energi, Equinor, Baker Hughes	Equinor, Baker Hughes

LOCATION	PROJECT NAME	PROJECT TYPE	DESCRIPTION	CO ₂ CAPTURED/YEAR	STARTING DATE (OPERATION)	STATUS OF THE PROJECT	PARTICIPANTS	IOGP MEMBERS INVOLVED
Norway	Norcem Brevik	Industrial Capture	CO ₂ capture from a cement plant.	0.4 Mtpa	2024	In construction	HeidelbergCement	
	Pilot CCS project	CO ₂ capture and storage	Pilot project for CCS, which will employ high-resolution 3D seismic acquisition offshore Norway at a potential carbon storage area to demonstrate detailed imaging of the full section from the seabed to the target storage reservoir.	N/A	N/A	N/A	TGS, Magseis Renewables	
Poland	Poland EU CCS Interconnector	CO ₂ transport and storage	CO ₂ transport and storage value chain	2.7 Mtpa			N/A	
Republic of Ireland	ERVIA	Power & Capture (post-combustion)	CCS-equipped CCGTs and refinery, CO ₂ transportation and storage in the Celtic Sea	2 Mtpa	2028	Feasibility study	ERVIA	
Romania	Onshore storage project	Industrial Capture, and Storage	Onshore storage projects, including capture of emissions in cement plants.	N/A	2024/2025	N/A	HeidelbergCement	
Spain	CCU Lighthouse Carboneras	CCU	CO ₂ capture through chemical absorption from cement kiln flue gas	0.05Mtpa	2022	N/A	LafargeHolcim Spain, Carbon Clean Solutions, ECCO2, Marubeni Europe	
Sweden	Preem CCS	Industrial capture, natural gas-to-H ₂ (pre-combustion)	CCS-equipped hydrogen production unit at a refinery, CO ₂ transportation and storage in the North Sea	500,000 tonnes (at full scale)	2025	Pilot phase	Preem, Chalmers University of Technology, SINTEF Energy Research, Equinor and Aker Solutions	Equinor, Aker Solutions
	Cementa Slite Plant	CO ₂ capture	CO ₂ capture from cement	1.8 Mtpa	N/A	Feasibility study complete	HeidelbergCement	
	Vattenfall Uppsala	CO ₂ capture	Waste-to-energy	0.2 Mtpa	N/A	Feasibility Sstudy complete	Aker Carbon Capture, Vattenfall	
	CinfraCap	CO ₂ transport and storage	CO ₂ transport and storage from refining	2 Mtpa	N/A	Pre-study complete	Göteborg Energi, Nordion Energi, Preem, St1, Renova, Gothenburg Port Authority	
	BECCS@STHLM	Power & Capture	A full-scale Bio-Energy Carbon Capture and Storage facility at its existing heat and power biomass plant. The project will participate in and promote a new market for negative emissions and contribute to the establishment of all the necessary links in a CCS value chain in Northern Europe, including transport by ship of the CO ₂ for storage to Norway.	0.8 Mtpa	N/A	Investment decision planned for February 2023	Stockholm Exergi	
UK	Acorn	CO ₂ transport and storage	Based at the St Fergus gas terminal in North East Scotland, Acorn CCS can repurpose existing gas pipelines to take CO ₂ directly to the Acorn CO ₂ Storage Site. With this important pipeline infrastructure already in place, Acorn CCS can get started using existing CO ₂ emissions – captured directly from the gas processing units at the St Fergus gas terminal.	N/A	2021-2023	Advanced development	Pale Blue Dot, Shell, Chrysaor	Shell
	Caledonia Clean Energy	CO ₂ capture	Capture from natural gas power generation	4 Mtpa	2024	Feasibility study completed	Summit Power	

LOCATION	PROJECT NAME	PROJECT TYPE	DESCRIPTION	CO ₂ CAPTURED/YEAR	STARTING DATE (OPERATION)	STATUS OF THE PROJECT	PARTICIPANTS	IOGP MEMBERS INVOLVED
UK	Zero Carbon Humber	CO ₂ capture	BECCS, carbon capture on natural gas power, hydrogen production	9.5 Mtpa	N/A	N/A	Equinor in collaboration with British Steel, Drax, Centrica Storage, Nationalgrid, Mitsubishi Power, Uniper, Associated British Ports, AMRC, Triton Power, SSE Thermal, PX	Equinor
	HyNet	CO ₂ capture and storage	CO ₂ full chain project, blue hydrogen.	1 Mtpa	N/A	FEED with FID expected in 2021	Progressive Energy, Cadent, Eni, forms West Coast Cluster with South Wales Industrial Cluster, Essar Oil	Eni
	Netzero Teesside	CO ₂ capture and storage	industrial capture, new build CCGT with CCS; storage via Endurance Partnership	10 Mtpa	2020s	N/A	BP, Eni, Equinor, Shell, Total, Teesside Valley Authority, Suez, BOC, semcorp,CF, Lotte Chemical, Nepic, UK BEIS	BP, Eni, Equinor, Shell, TotalEnergies
	South Wales Industrial Cluster	CO ₂ capture, transport and storage	CO ₂ full chain project with shipping.	15 Mtpa	N/A	Developing roadmap	RWE, Progressive Energy, Cadent, Valero, Tata Steel, BOC, South Hook, Wales & West Utilities, Western Power Distribution, Rice, Flexis	
	STEMM-CCS	CO ₂ Storage	Address the current knowledge and capability gaps in approaches, methodologies and technology required for the effective environmental monitoring of offshore CCS sites	N/A	2020	In operation	Shell	Shell
	CO₂ Sapling Transport Infrastructure Project	CO ₂ Transport	The international CO ₂ transport network that will grow out of the Acorn CCS project	4.3 Mtpa	N/A	Feasibility study completed	Pale Blu Dot, Chrysaor, Shell, Total, UK Government, Scottish Government	
	Northern Endurance Partnership	CO ₂ transport and storage	CO ₂ transport and storage value chain	10 Mtpa	N/A	Carbon storage license approved by OGA	BP, Eni, Equinor, National Grid, Shell, TotalEnergies	BP, Eni, Equinor, Shell, TotalEnergies
	H2Teesside	Power & Capture	Capture CO ₂ emissions from hydrogen production.	2Mtpa	2027	Feasibility study	BP	BP
	H2H Saltend	Power & Capture	Hydrogen with natural gas with CCS.	0.9-2.6 Mtpa	2026	Final Investment Decisions (FID)	Equinor	Equinor

Source: [Global CCS Institute](#) and Member companies