

Troll Vest

Smeaheia

Northern Lights

US-Norway Bilateral Meet

equinor

Stovegolvet

Shaping the European future of CCS and clean hydrogen

Competitive edge founded on experience, infrastructure and customers



15-30 MTPA CO₂ transport and storage capacity by 2035

Equinor share





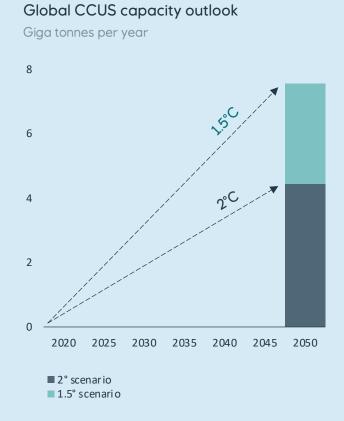
Clean hydrogen projects by 2035

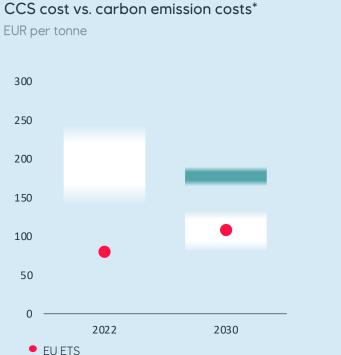
>10%

Clean hydrogen market share in Europe by 2035



Net zero driving demand for CO₂ transport and storage

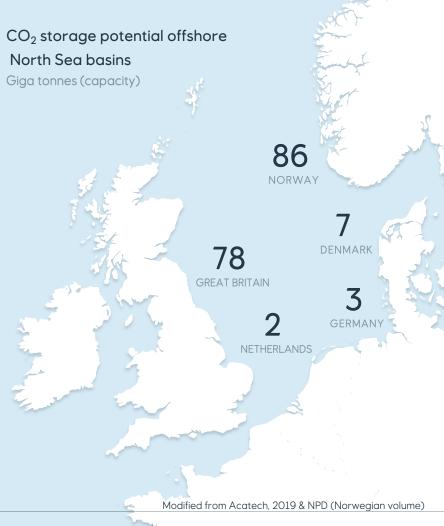




CCS cost range

Total carbon emission cost signals Norway, Sweden, Denmark, Netherlands

CCS cost: various sources including Equinor, Northern Lights and IEA. EU ETS projections from Bloomberg NEF March 2021



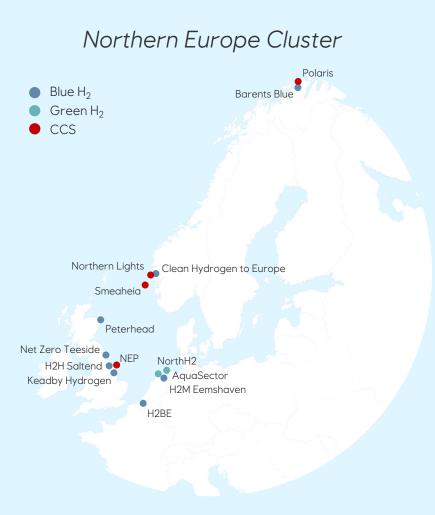
Source: Wood Mackenzie

Equinor I Low Carbon Portfolio





| Project name | Project type | Country |
|--------------------------------|--------------------|---------|
| Northern Lights | CCS Infrastructure | |
| Northern Endurance Partnership | CCS Infrastructure | |
| Net Zero Teesside | Clean power | UK |
| Keadby 3 | Clean Power | UK |
| H2H Saltend | Blue H2 | UK |
| Keadby Hydrogen | Clean power | UK |
| Peterhead | Clean power | UK |
| Smeaheia | CCS Infrastructure | |
| H2M Eemshaven | Blue H2 | NL |
| H2BE | Blue H2 | BE |
| Clean Hydrogen to Europe | Blue H2 | NO |
| Barents Blue | Blue ammonia | NO |
| Polaris | CCS Infrastructure | NO |
| Tri-State Energy Hub | Blue H2 | |
| NortH2 | Green H2 | NL |



Tri-State Clean Energy Hub | Hub Initial Deployment

Morgantown

- Area uniquely positioned to become a low carbon energy cluster
- Vast energy resources and dense industrial activities
- CO2 storage opportunities
- Clean fuel: Reforming of natural gas to h2 in combination with CCS
- CO2 pipelines and H2 pipelines provides decarbonization options for industry

TIL DIO

West Virginia

H₂ Lines
 CO₂ Lines

equinor 🛸

Pennsylania

Ohio

Pittsburgh

Tri-State Clean Energy Hub | 2040 Vision



Pennsylvania

Ohio

Pittsburg

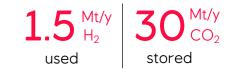
non

0

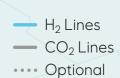
Power fired

Full network

- Connect more industrial facilities, power plants, and transportation to decarbonization grid
- CO₂ storage at multiple sites
- 2040 projection: >70% emission reduction relative to 2019

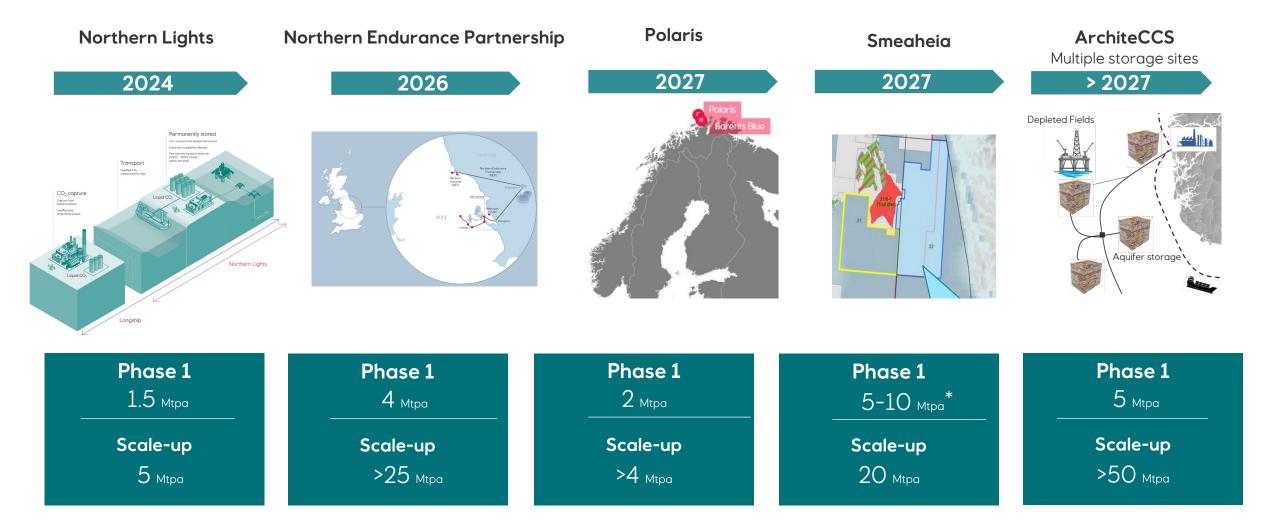


West Virginia





Equinor CCS portfolio



* Early estimate

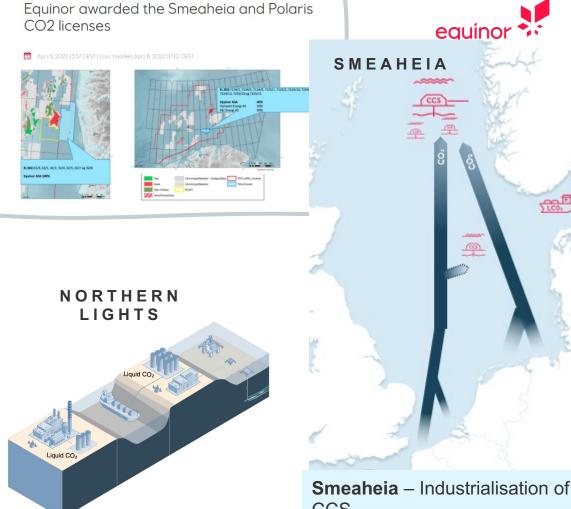
Mtpa – million tonnes per annum (Gross volumes)

CCS scale up-Building on 26 years of operational experience and Northern Lights



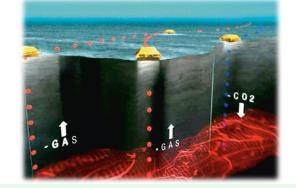
CO₂ transport and storage capacity by 2035 Equinor share





SLEIPNER





Northern Lights – Market opener

CCS

Snøhvit – Pipelined CO₂ from shore & sub-sea development



Development of future CO2 transport solutions



Direct injection offshore <-> Onshore terminal

Developing large scale CO2 storage and transport solutions to help decarbonize European Industry

Smeaheia

CCS

- Developing a roadmap for connecting European CO₂
 volumes to Norwegian storage options
- □ Preparing for a feasibility study
- □ EU Project of Common Interest (PCI) application
- □ Bilateral agreement that support pipeline transport of CO₂

Thank you

Vaibhava Singh, Business Development, Low Carbon Solutions

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