

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





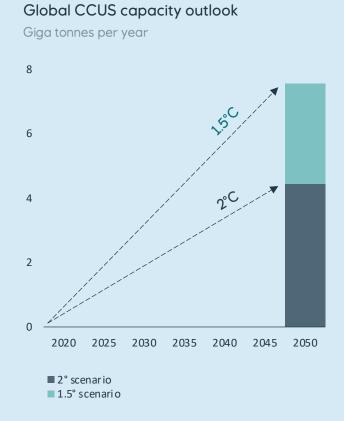
Clean hydrogen projects by 2035

>10%

Clean hydrogen market share in Europe by 2035



Net zero driving demand for CO₂ transport and storage

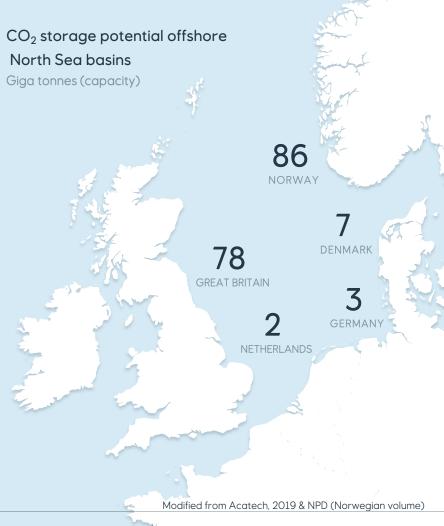




CCS cost range

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



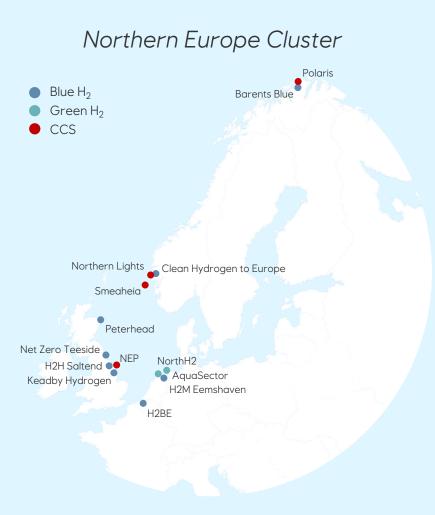
Source: Wood Mackenzie

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

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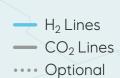
Power fired

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

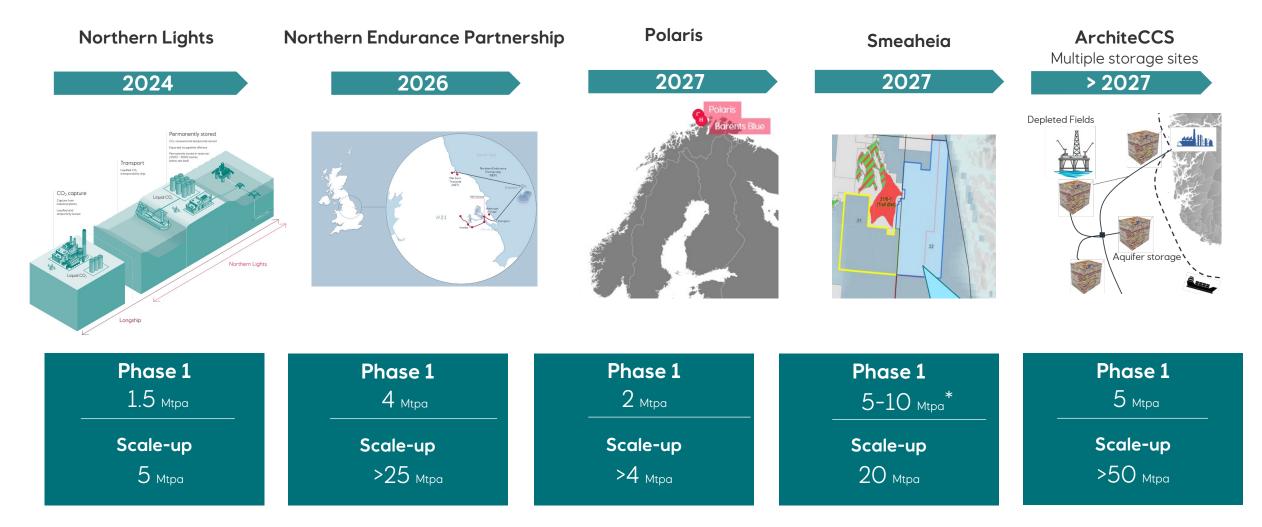


West Virginia





Equinor CCS portfolio



* Early estimate

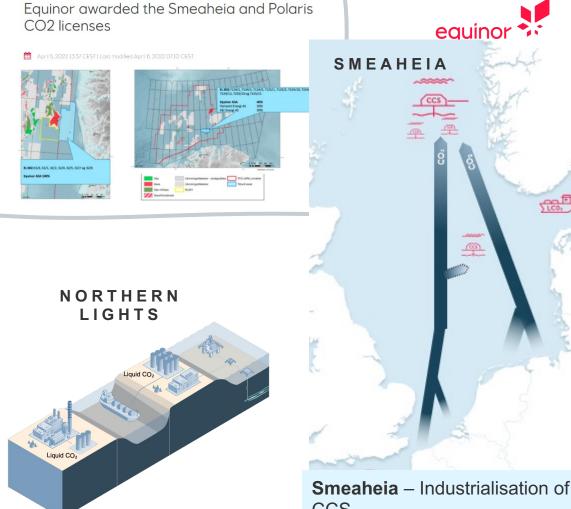
Mtpa – million tonnes per annum (Gross volumes)

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



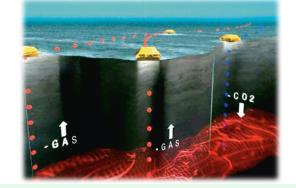
CO₂ transport and storage capacity by 2035 Equinor share





SLEIPNER





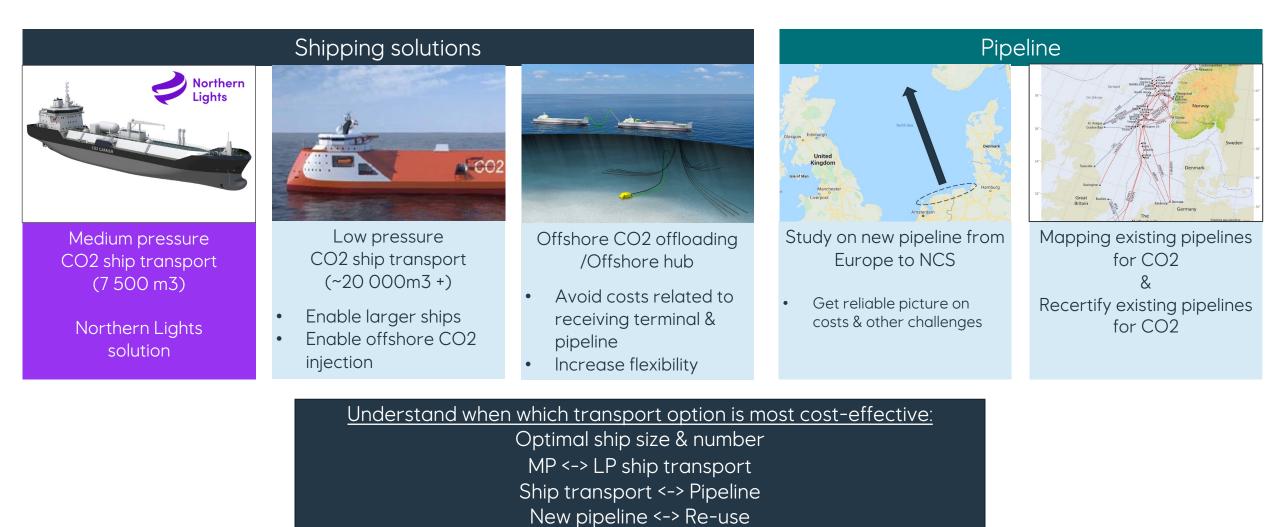
Northern Lights – Market opener

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

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