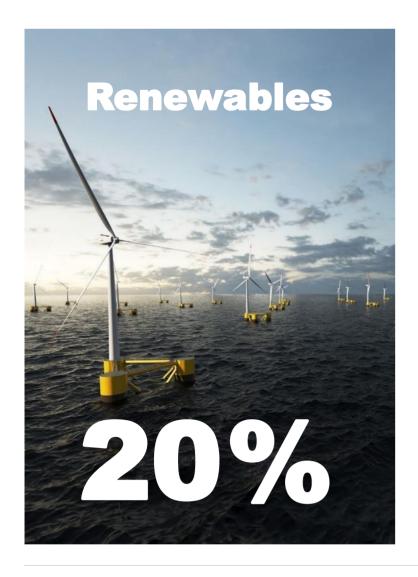
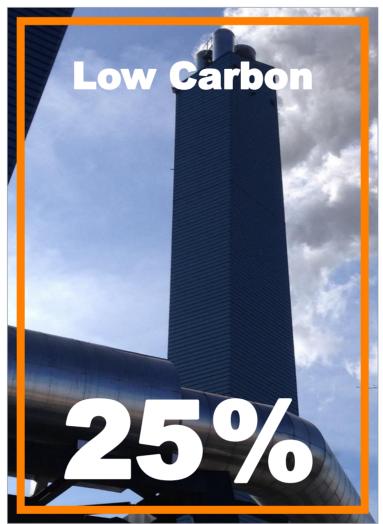
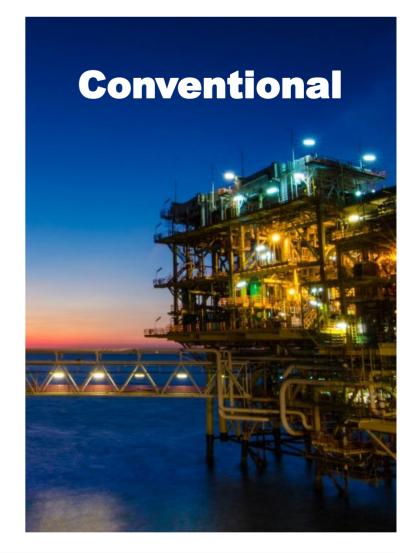


Aker Solutions – Leading a Sustainable Energy Future









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Carbon Capture

Part of the solution

Carbon Capture is required to meet Paris climate goals

The technology is commercially available

Aker Solutions is playing a leading role

Costs of capture is decreasing

Enhanced oil recovery – significant climate effect

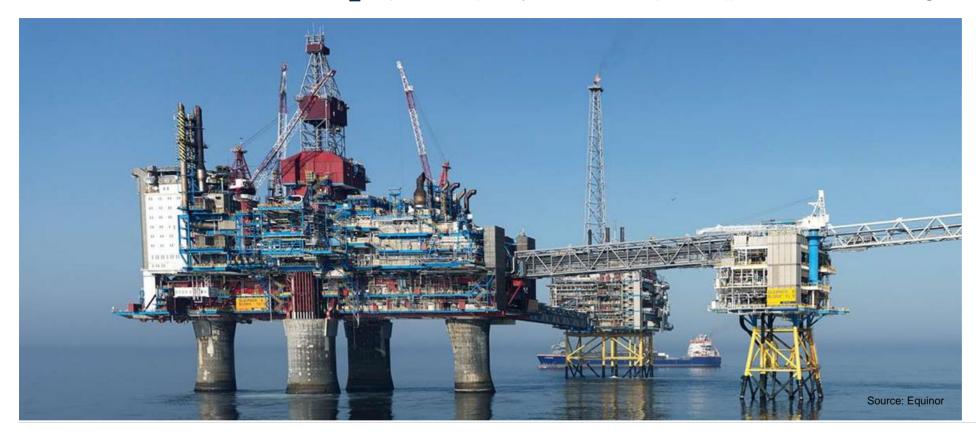
Projects accelerating in Europe

North America and Middle East projects driven by EOR



Aker Solutions – Pioneering CCS, at Sleipner since 1996

- World First Sleipner offshore CO₂ injection and permanent storage project, 1996
- **Designed & delivered** by Aker Solutions / Kvaerner
- ~1 million tons of CO₂ injection per year into aquifer (permanent storage)



AkerSolutions

Mobile Test Unit (MTU) – Advanced CO₂ Capture Pilots

- Tested at 7 different flue gases, at 6 different sites since 2008
- Continuously upgraded
- Paramount for technology qualification
- Extensive performance data since 2008

2020 - 2021

Risavika Gas Centre Sola. Norway



National CCC Alabama, USA

Dong CHP Equinor oil refinery **TCM. Norway**

Heidelberg/Norcem **Brevik, Norway**

Klemetsrud WtF Oslo. Norway



Energy



Police. Poland







Coal

Coal



Heavy oil cracker (RFCC)



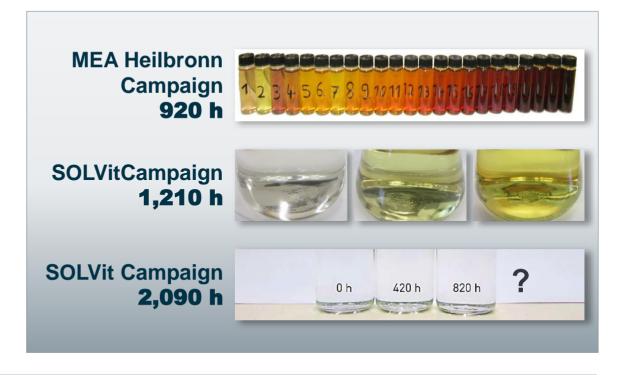
production



Capture technology – Leading Proprietary Solvent

- 8 years of developing the worlds leading HSE friendly amine
- -35% less energy requirement from reference case
- Non-toxic, Non-corrosive, Biodegradable

- The leading chemical amine solvent
- Solvent Degradation is the key to success





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Three Versions – Same Proven Technology



Advanced Carbon Capture (ACCTM)

- **Proprietary solvent** and technology
- **Verified** in extensive MTU testing and at Technology Center Mongstad, which was designed and delivered by Aker Solutions
- Industry leading HSE characteristics

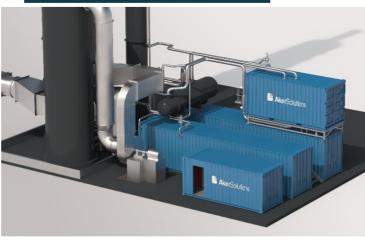
Industrial CCS

> 400,000 TPA CO₂



Modular Just Catch

40,000 - 150,000 TPA CO₂



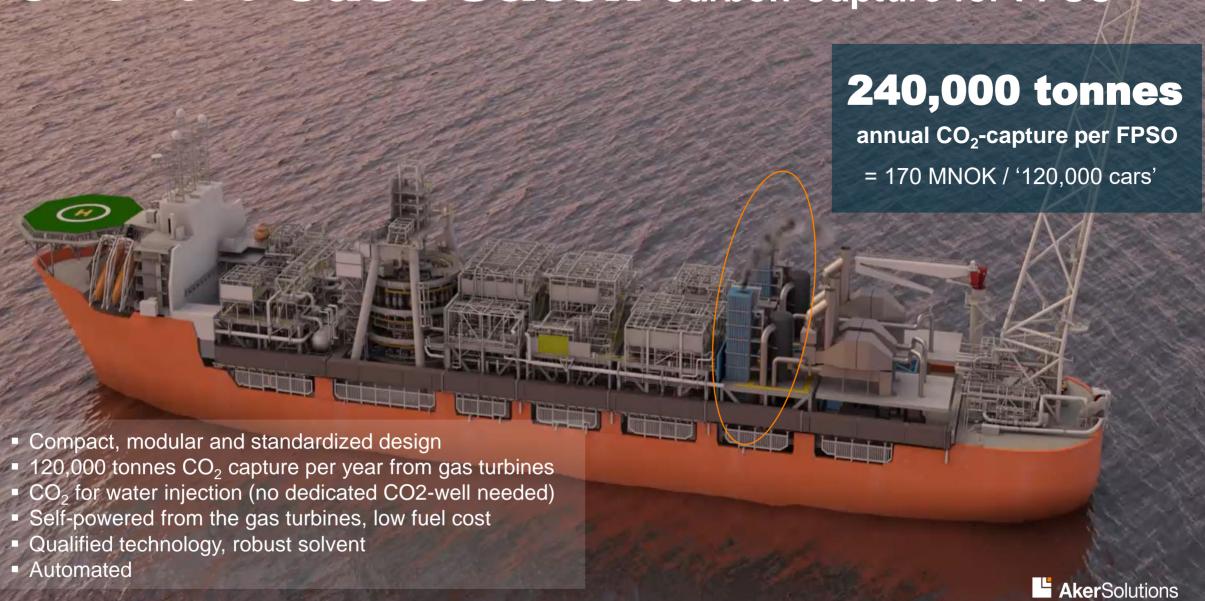
Offshore Just Catch

120,000 TPA CO₂ Per trubine

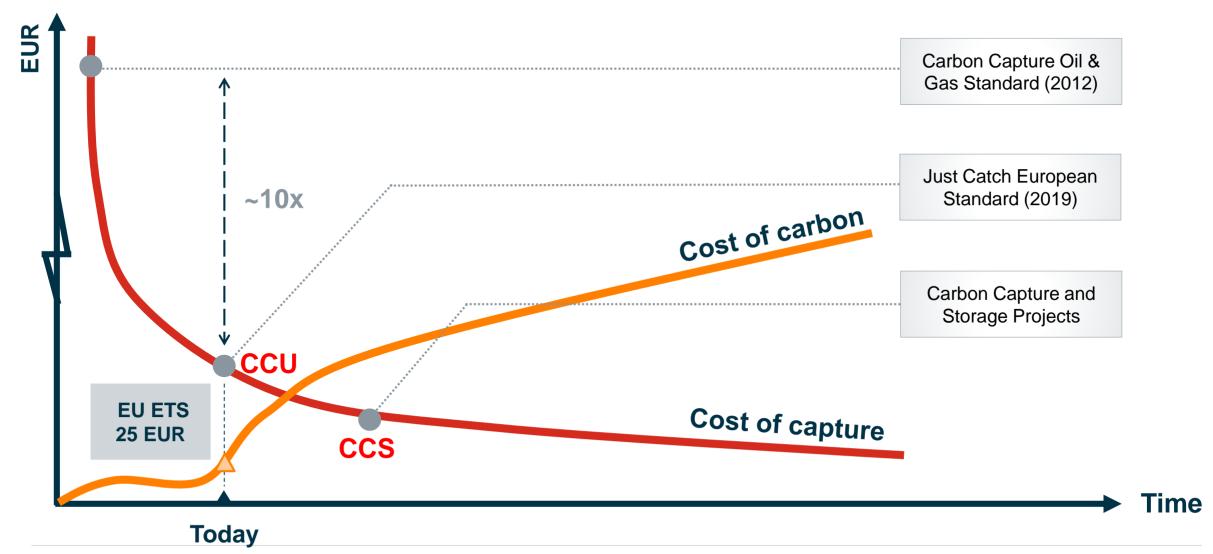




Offshore Just Catch Carbon Capture for FPSO



Cost of Capture and Cost of Carbon



Waste to energy – Quick route to large reductions

Spain*

Waste-to-Energy in Europe

WtE Plants operating in Europe (not including hazardous waste incineration plants): 488

Waste thermally treated in WtE plants (in million tonnes): 93.9

488 Waste-to-Energy (WtE) plants operate in Europe, with average annual CO2 emissions of: 200,000 tons





Our **Just Catch**™ plants can capture **85%** of Waste-to-Energy emissions

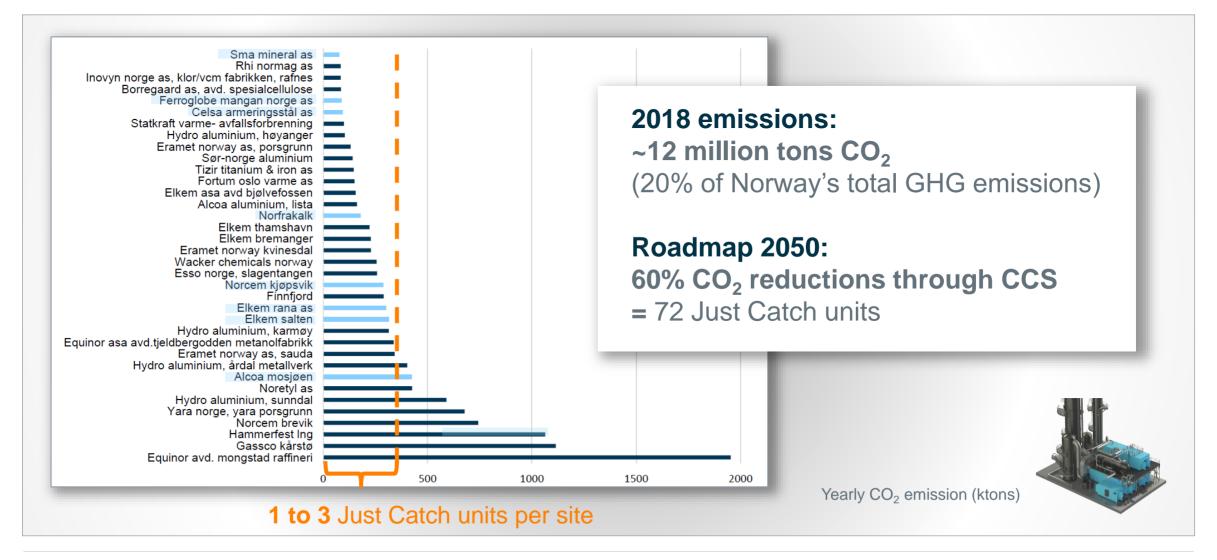


Average WtE plant, per country:

UK	270,000 tons
Germany	270,000 tons
Finland	183,000 tons
Sweden	176,000 tons
Denmark	133,000 tons
France	114,000 tons
Norway	95,000 tons

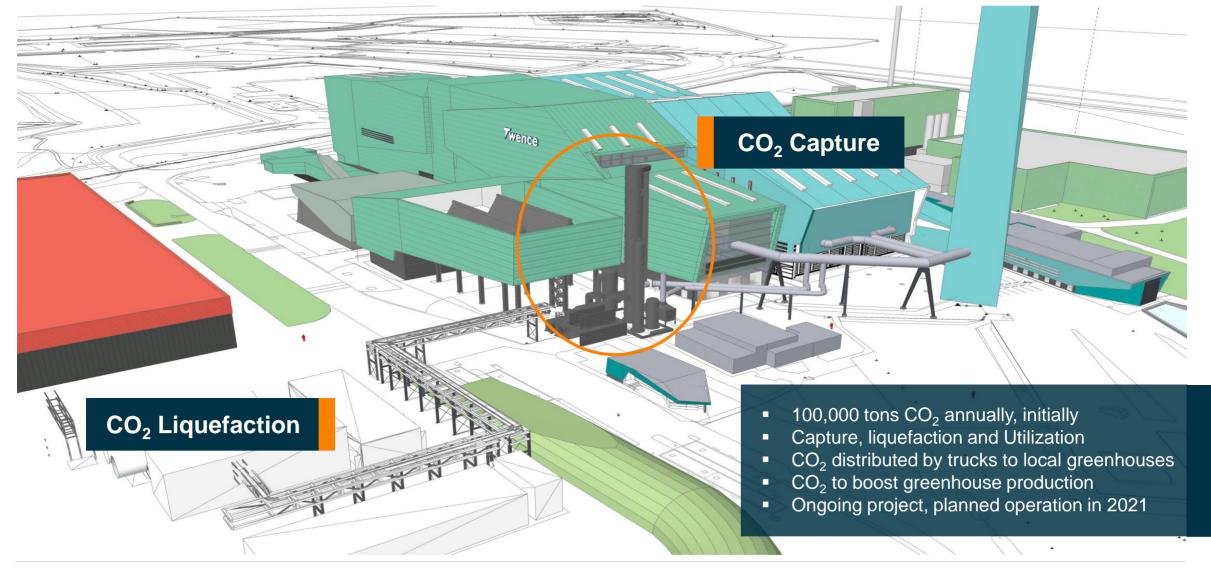


Example – 72 Just Catch units could capture 60% of various industry processes' emissions in Norway





Twence Waste-to-Energy, Holland – 100,000 tons







Storage

- 110 km pipeline, 12 inches
- One injection well



Onshore terminal

- Onshore terminal with buffer storage, pump and heater
- 110 km pipeline, 12 inches
- One injection well



Fortum

Waste-to-energy plant, Oslo, Norway

Northern Lights – full scale storage project

- Equinor, Total and Shell
- CO₂ transport and storage in the North Sea



Norcem AS, Brevik
Cement plant, Norway

- Capture of 400,000 tons annually at Norcem and Fortum Oslo Varme each Amine technology
- Includes CO₂ capture, liquefaction and buffer storage (4 days)



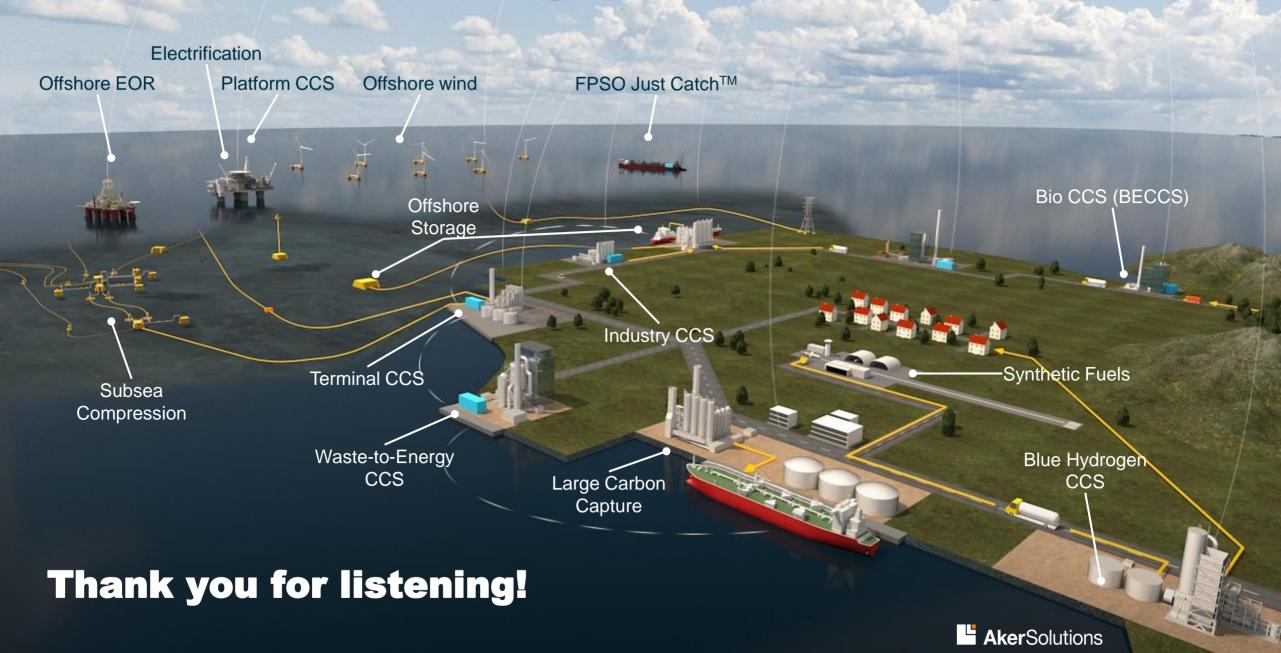
Transport

- 1 or 2 ships
- 700 km distance
- Liquefied state (15 barg, -26°C)





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