

Making Large Scale Carbon Capture Happen

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Head of North America

World Chemical Forum



Our mission

Enabling carbon reduction and removal from industries and energy solutions

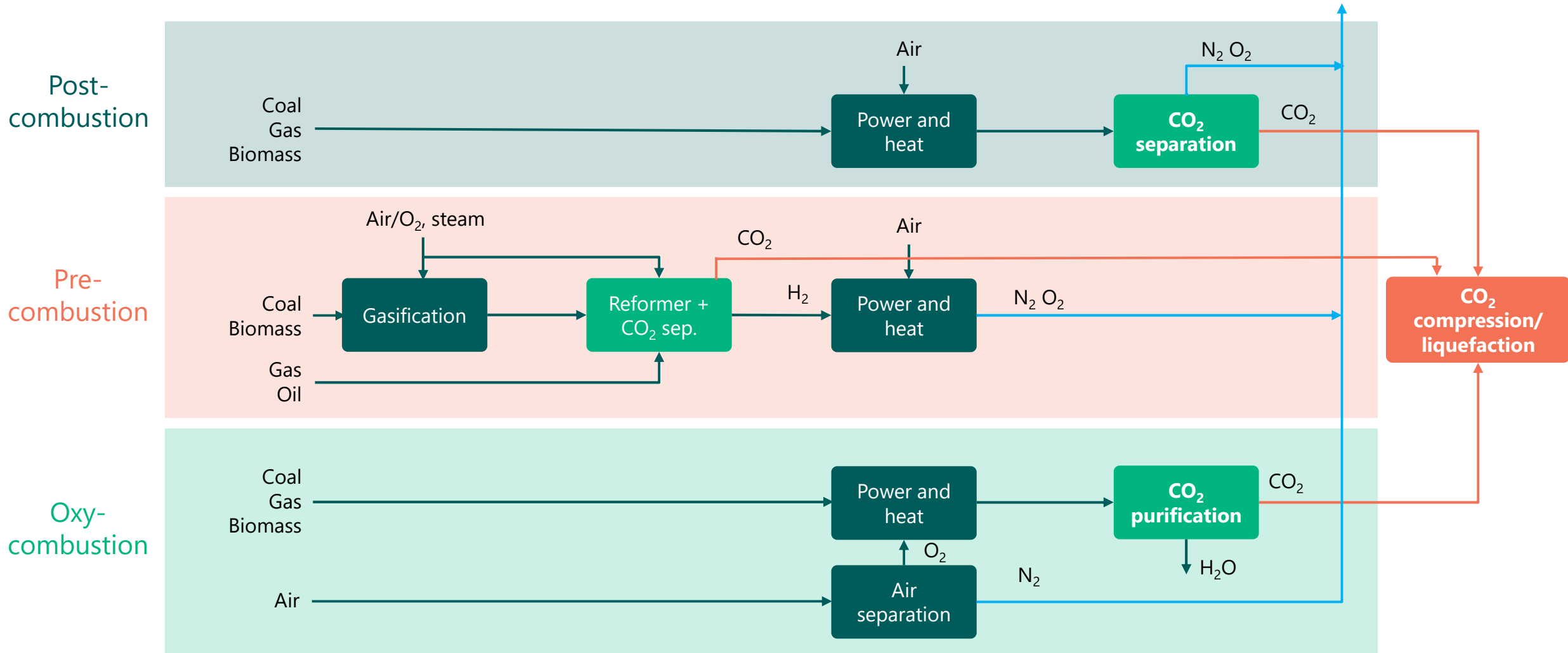
DEVOTED TO...

DEVOTED TO:
Working together

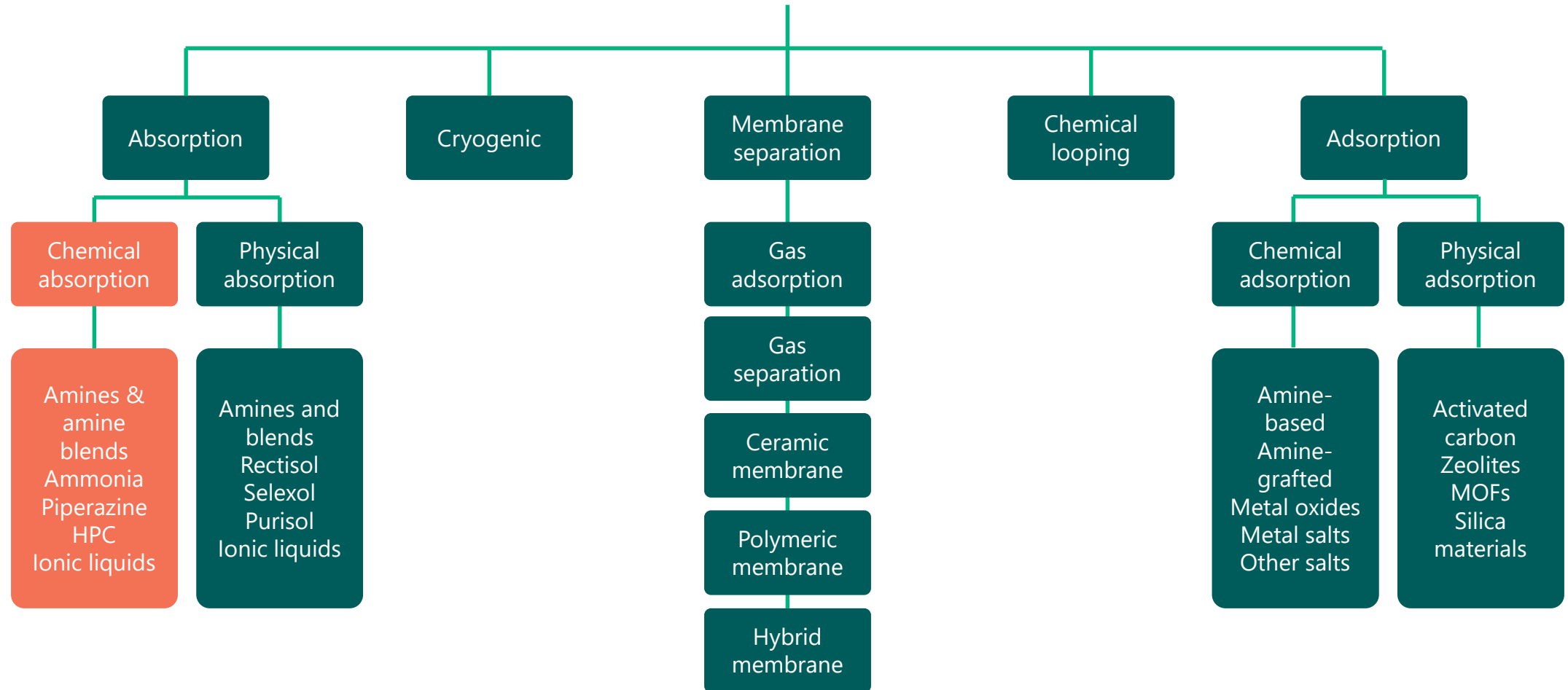
DEVOTED TO:
Bold innovation

DEVOTED TO:
Doing the right thing

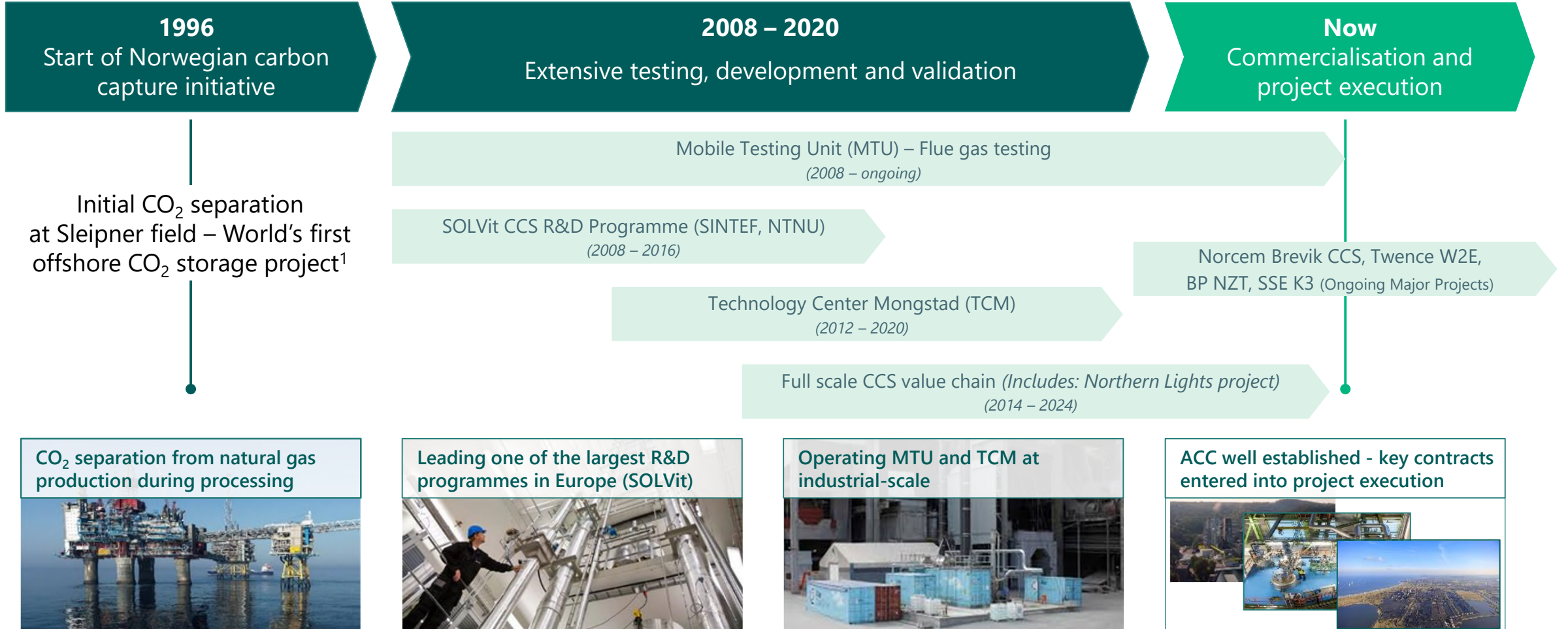
Carbon capture technologies



Post-combustion carbon capture



A long-term technology initiative



Unique solvent with superior degradation and HSE profile

Aker Carbon Capture developed a solvent portfolio through an 8-year R&D program together with SINTEF. The degradation rate of the amines is an order of magnitude lower compared to conventional MEA.

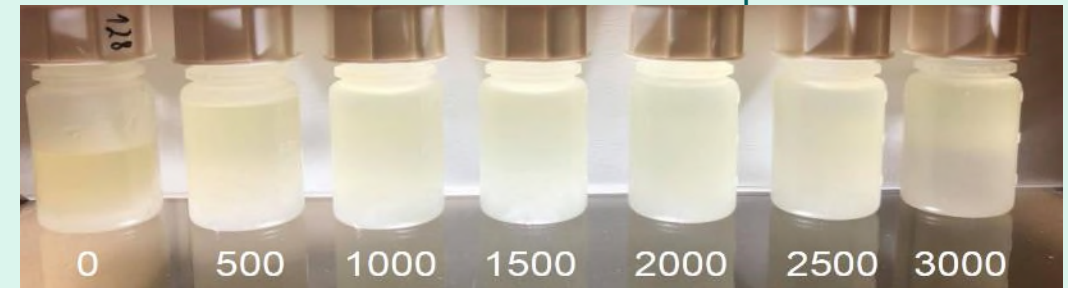
Our superior solvent degradation profile is the key success factor for Aker Carbon Capture

Reference solvent



of hours

Preem CCS MTU solvent colour development



of hours

Aker Carbon Capture in brief

Pure play carbon capture company delivering ready-to-use capture plants

Best-in-class HSE friendly solvents and other patented plant technologies for better all-round plant performance

Validated and certified market-leading proprietary technology with over 60,000 operating hours



Brevik CCS

The world's first large-scale CO₂ capture unit for cement



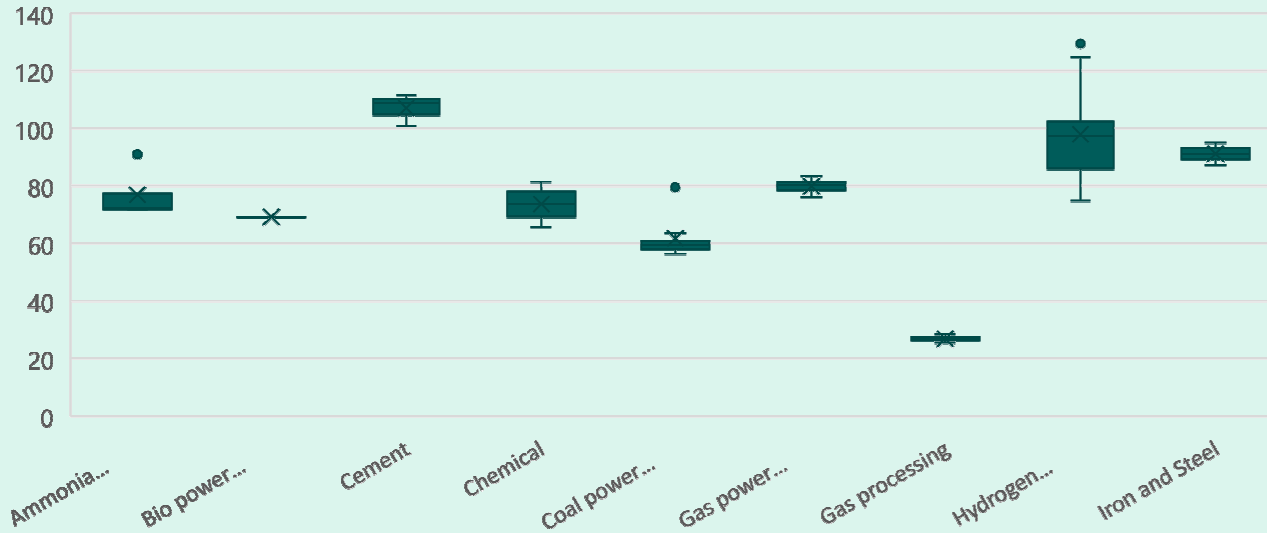
- 400 000 TPY
- Ready 2024
- Major equipment installed on site, incl. all nine WHRUs, columns and internals, and FG fan



Key considerations for good business cases

Industry levelized cost

LCOC for actual qualifying commercial projects in the US (Rystad Energy)



- First in line: Gas sweetening / pre-combustion / gas processing, ethanol, ammonia
- Next in line: Bio/Waste to energy/Pulp and paper, Chemical, Gas Power, Blue Hydrogen and cement
- More into the future: Iron and Steel

- Industry levelized costs vary significantly
- Each project needs an assessment of key drivers for a good business case
 - Transport & storage route / distance to store
 - Cost / availability of energy
 - Heat integration
 - Industry capture potential (e.g. CO2 concentration, cleaning needs etc.)
 - Income possibilities
 - Sale of CO2
 - 45Q
 - LCFS
 - CDR

Aker Carbon Capture today

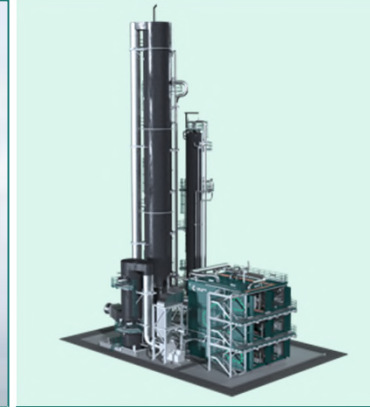
Ongoing full-scale installations



Heidelberg Materials, Cement, storage



Twence, Waste-to-Energy, greenhouse



Ørsted, Kalundborg CCS

Ongoing test campaigns



Elkem / SMA Minerals / Mo Industripark

Other selected ongoing projects



BP Net Zero Teesside



SSE Thermal, Keadby 3

Partnerships



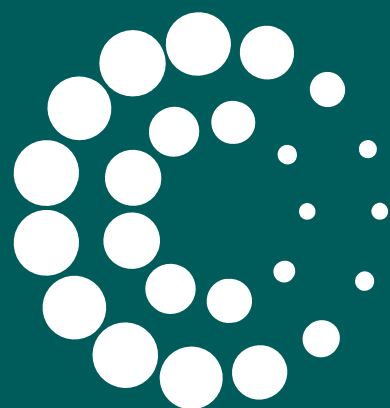
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