



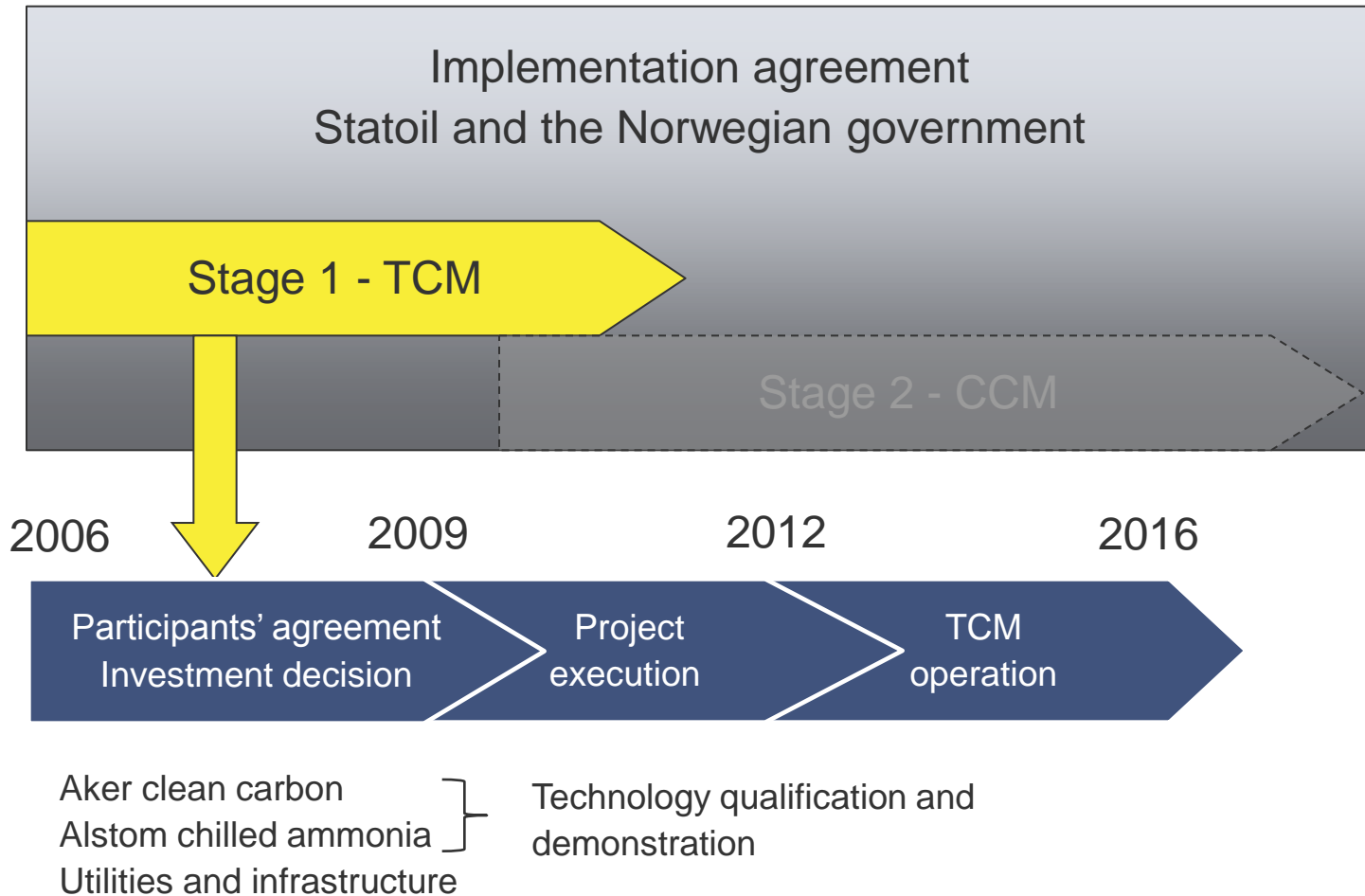
Statoil

Technology Centre Mongstad

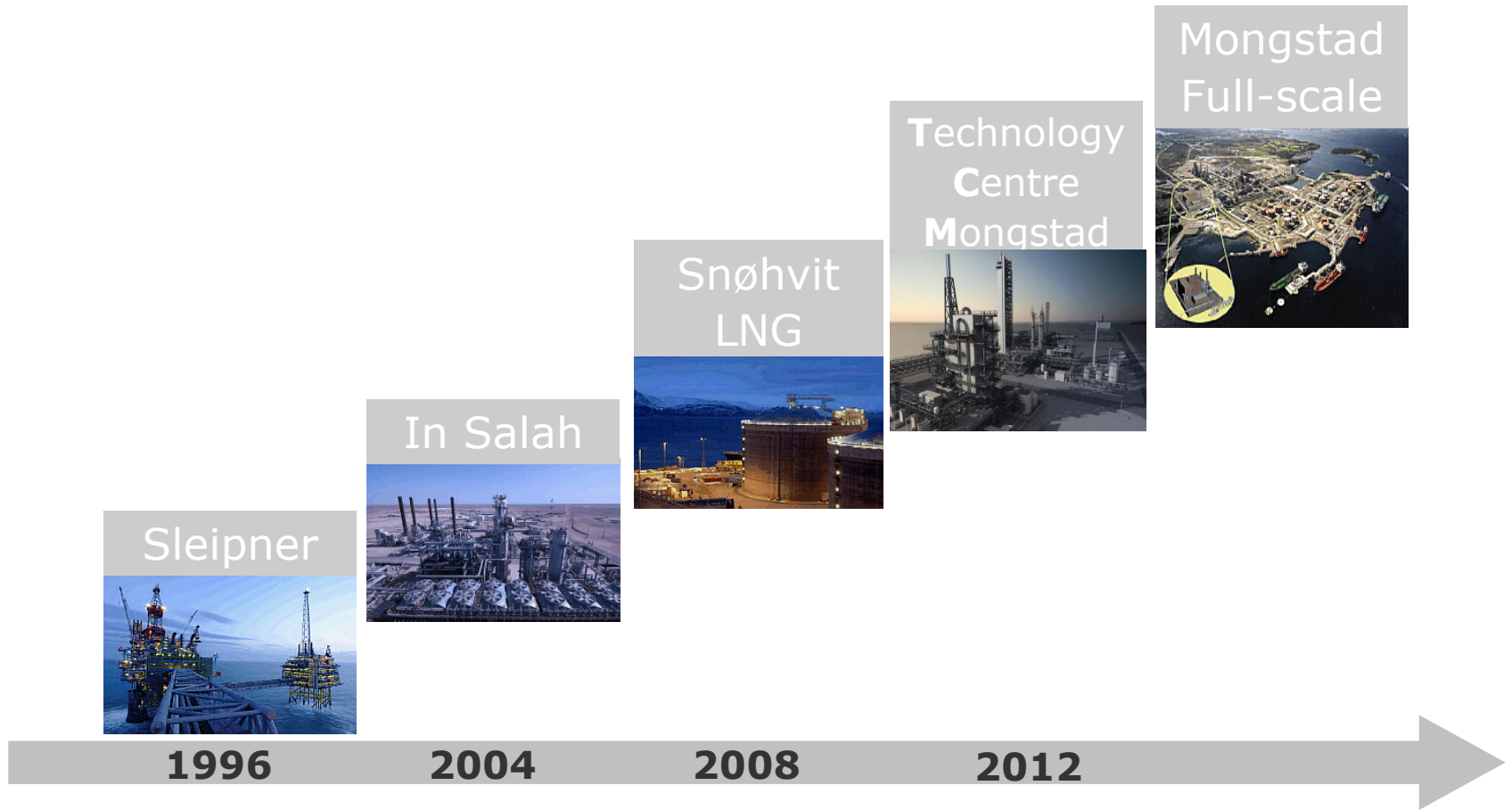
Tor Fjaeran – President Director Statoil Indonesia

CCOP EPPM seminar, Bali 12-14 September, 2012

- CO₂ Technology Centre Mongstad (TCM)



Statoil's CCS projects

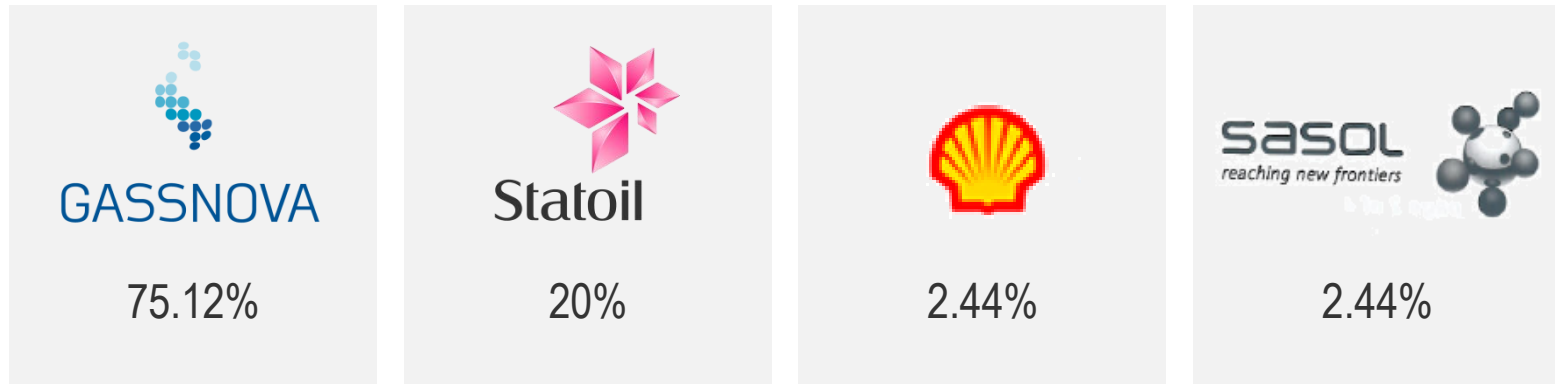


TCM Ambitions

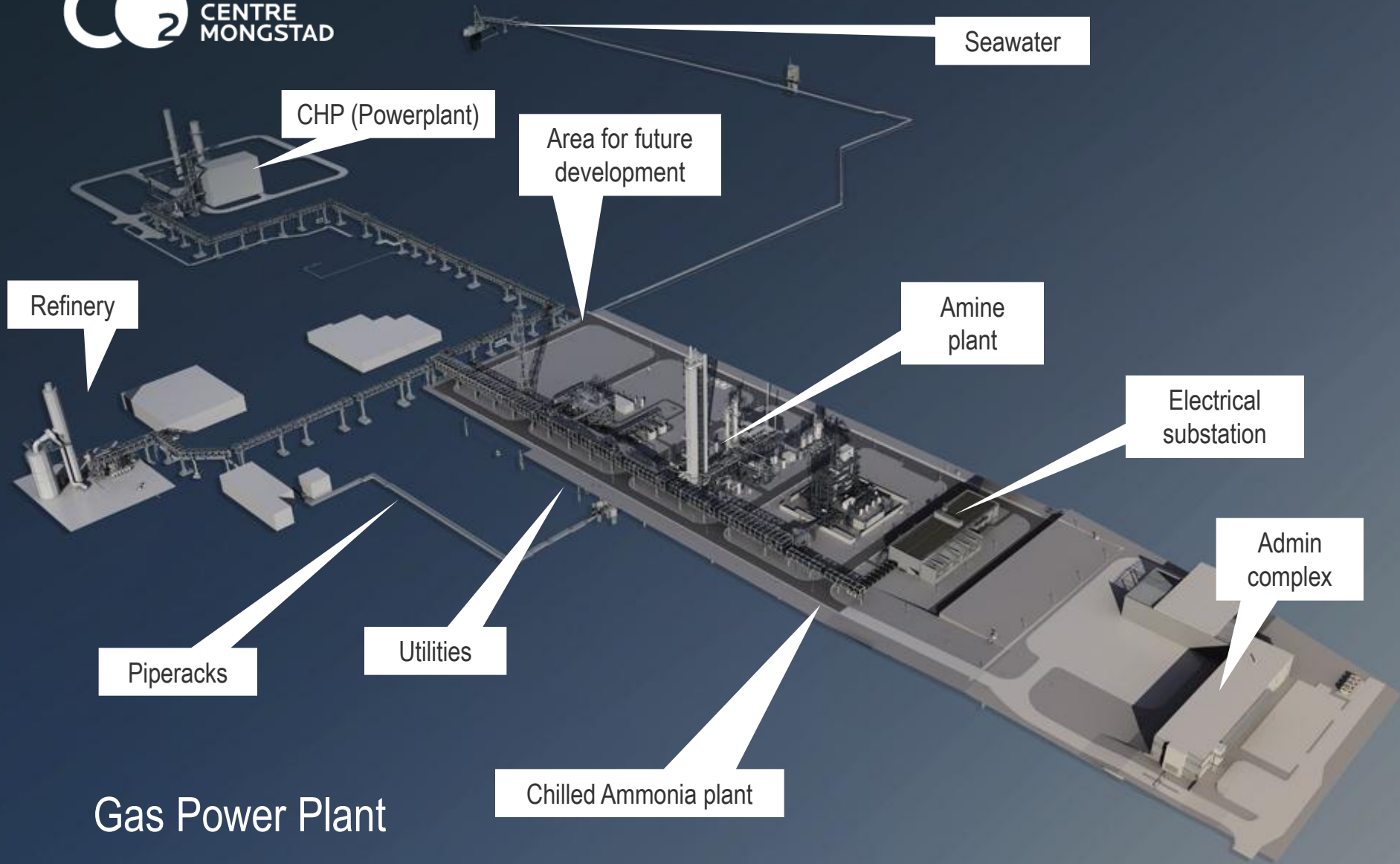
- Test, verify and demonstrate CO₂ capture technology owned and marketed by vendors
 - verify safe and stable continuous operation
 - identify and assess critical equipment
- Reduce cost, technical, environmental and financial risks
 - develop and validate modelling tools
 - minimise energy demand and other operating costs
 - reduce capital costs
- Encourage the development of market for CO₂ capture technology



TCM Owners



Other potential partners to be invited

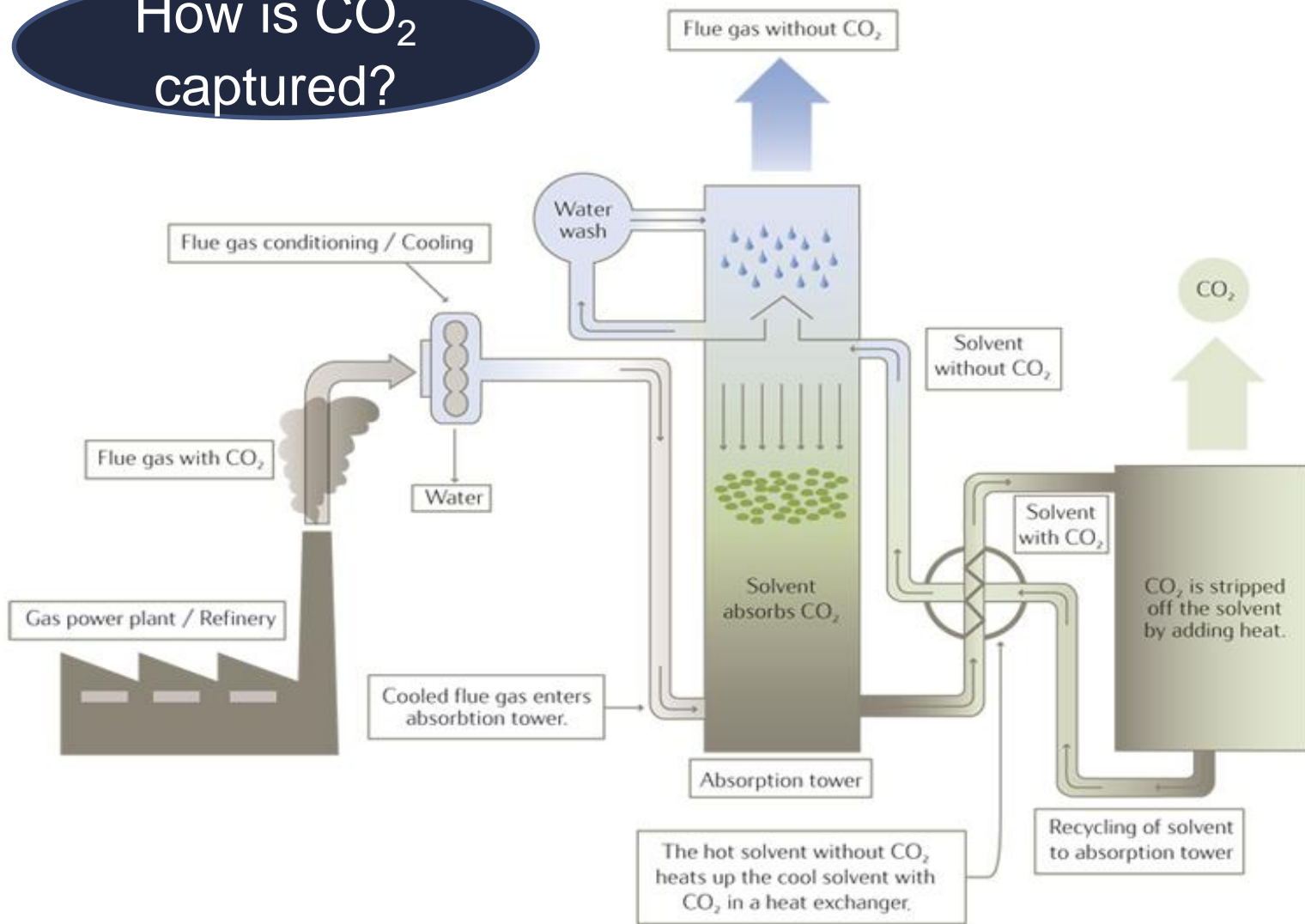


TCM Facility

- Utility and infrastructure
 - Flue gas treatment,
 - power and heat supply
 - Water treatment
- Aker Clean Carbon
 - Amine technology
 - Start up April 2012
- Alstom
 - Chilled Ammonia Plant
 - Start up August 2012



How is CO₂ captured?



TCM located next to Statoil's Mongstad refinery



Total TCM

Structural steel	tons	2 966
Piping	tons	1 174
Electrical cables	m	236 965
Instrument cables	m	201 029
Cable terminations	no's	7 424
Junction Boxes	no's	616
Instruments	no's	3 904
Equipment	tons	1 148
Purchased items (utility only)	no's	8 160



TCM project

- Total budget: 1 Bill USD
- Start-up: April 2012
- TCM organised as Joint Venture
 - Project Execution by Statoil
 - Daily Operation by Statoil



Further development

- Demonstrate existing technologies in cooperation with Aker and Alstom
 - Improve technologies further
- Issued «Request for interest»
 - Use of facilities after completion of Aker and Alstom test periods
 - Use amine facility for testing of chemicals and equipment
 - Utilise available area for testing of new technologies
- Improve CAP process further together with Alstom



Combat climate change through technology

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[CO2 Capture](#)

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SEARCH

Why CSS? >

What does TCM do? >

What is happening now? >



www.tcnda.com

NEWS



No environmental impact

Research results presented at a workshop meeting at Mongstad last week confirms that emissions from TCM will not have any negative



Financial Times video from Technology Center Mongstad

Click on the link below to see the FT video from Technology Center Mongstad at the website of Financial



Amine-based plant complete

The construction of the amine plant at Technology Centre Mongstad is now complete, and the equipment test period has started. The world's largest facility for testing and improving CO2

ABOUT TCM

Technology Centre Mongstad is the world's largest facility for testing and improving CO₂ capture. Knowledge gained will prepare the ground for CO₂ capture initiatives to combat climate change. TCM is a joint venture between the Norwegian state, Statoil, Shell and Sasol.

Thank you

Technology Center Mongstad

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