

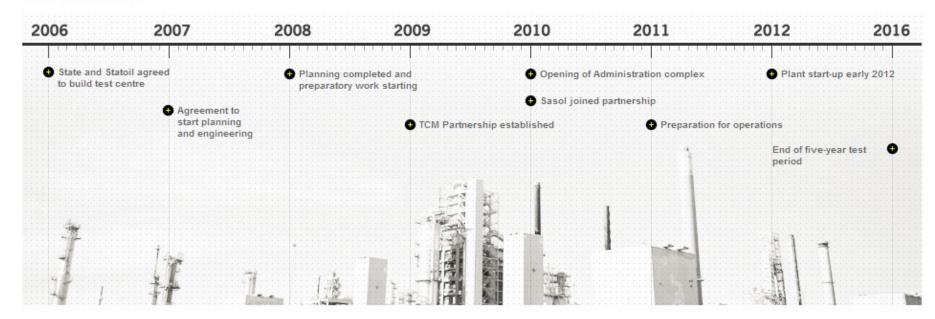
Technology Centre Mongstad

Technology Manager Olav Falk-Pedersen



TCM – Highlights

TCM HIGHLIGHTS

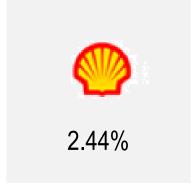




International Co-operation









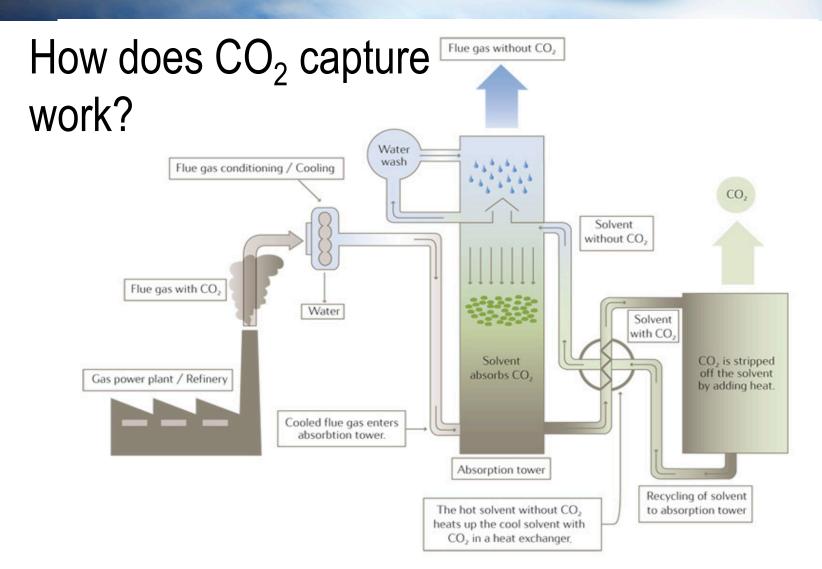
Other potential partners to be invited



Ambitions

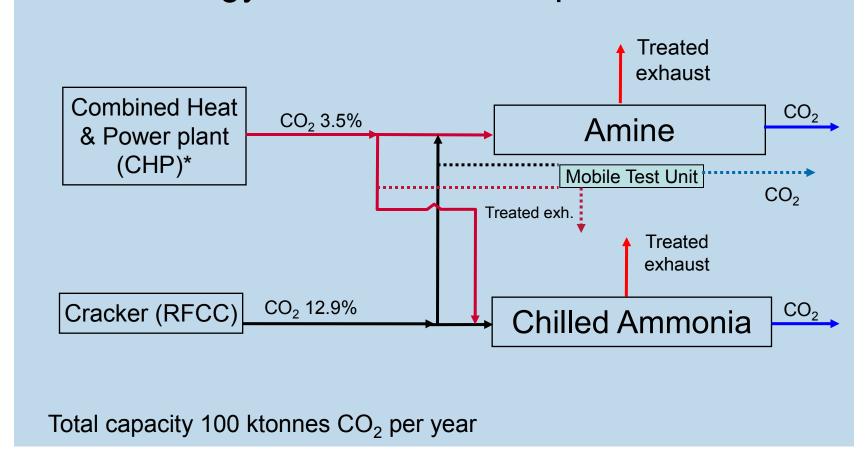
- Test, verify and demonstrate CO2 capture technology owned and marketed by vendors
- Reduce cost, technical, environmental and financial risks
- Encourage the development of market for CO2 capture technology
- Aim at international deployment







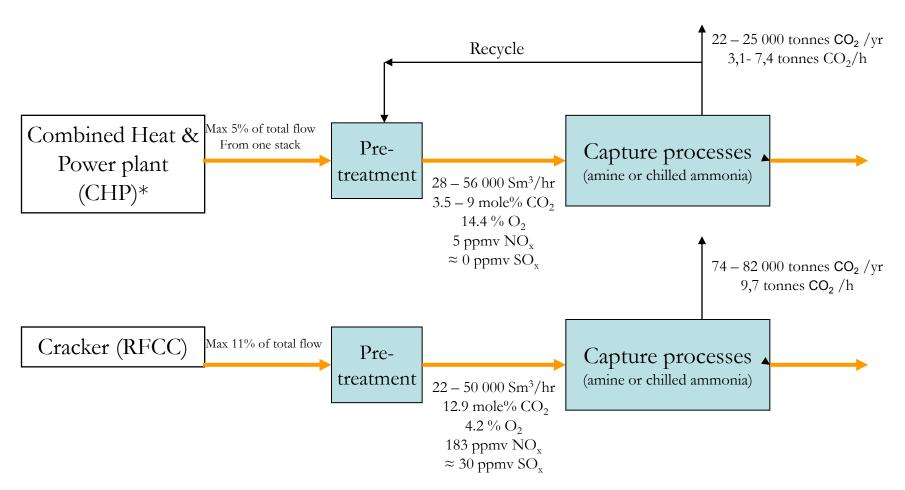
Test Strategy – Overall Concept



^{*} CHP design capacity of 280MW electricity and 360MW heat.

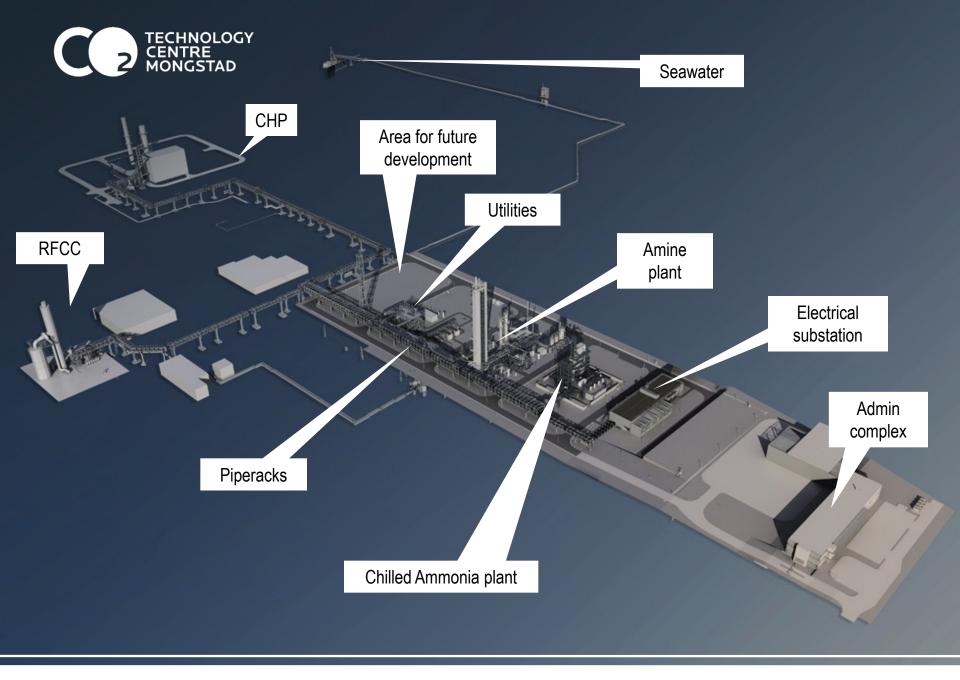


Two flue gas sources

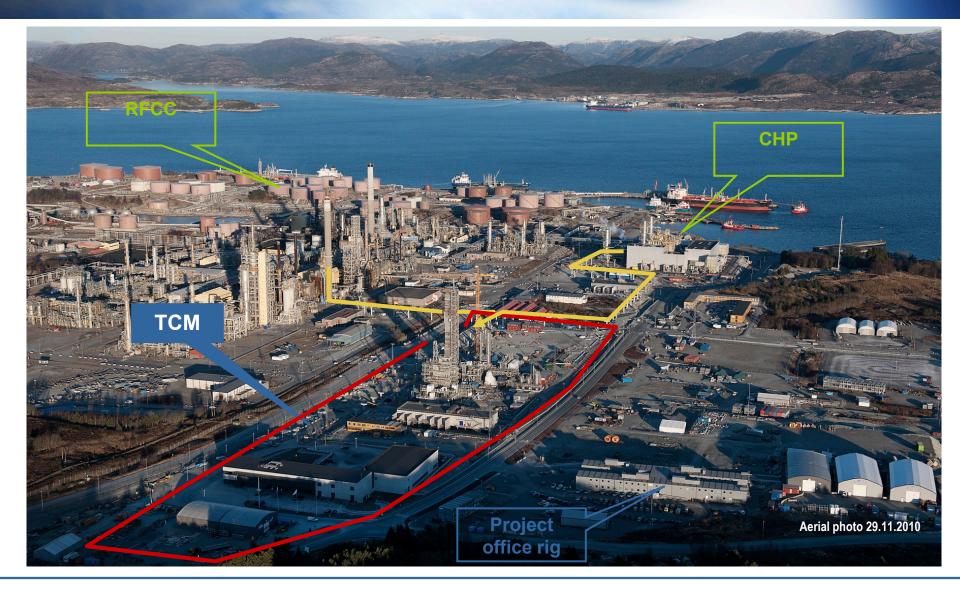


Relevant for a number of industrial processes including gas and coal fired power plants.

^{*} CHP design capacity of 280MW electricity and 360MW heat.







Figures from week 23/2011

Total: 589

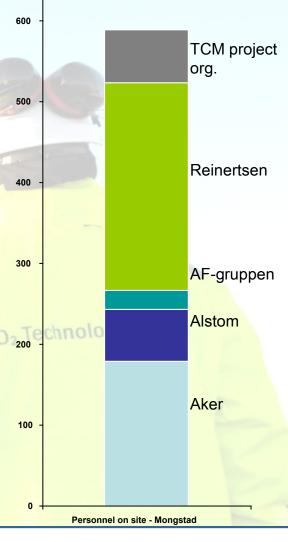
TCM project

Start-up:

- First Technology Q4 2011
- Second Technology 2012



- 77 % completed
- 3 495 000 manhours worked
- 3,9 BNOK spent (465 M€ / 690 M\$)
- 900 people directly involved





Key figures for TCM

Total TCM			
Structural steel Piping	tons tons	2 917 1 087	
Electrical cables Instrument cables	m m	234 400 208 000	
Instruments	no's	3 904	
Equipment	tons	958	



Construction philosophy

Area	Philosophy	
Amine plant	Prefabricate modules Site-build of foundations Slip-form concrete structure	
Chilled Ammonia plant	Stick-build at site Site-build of foundations Slip-form concrete structure	
Utilities and infrastructure	Prefabricate modules Prefabricate concrete elements	







Fabrication of equipment















Seawater intake



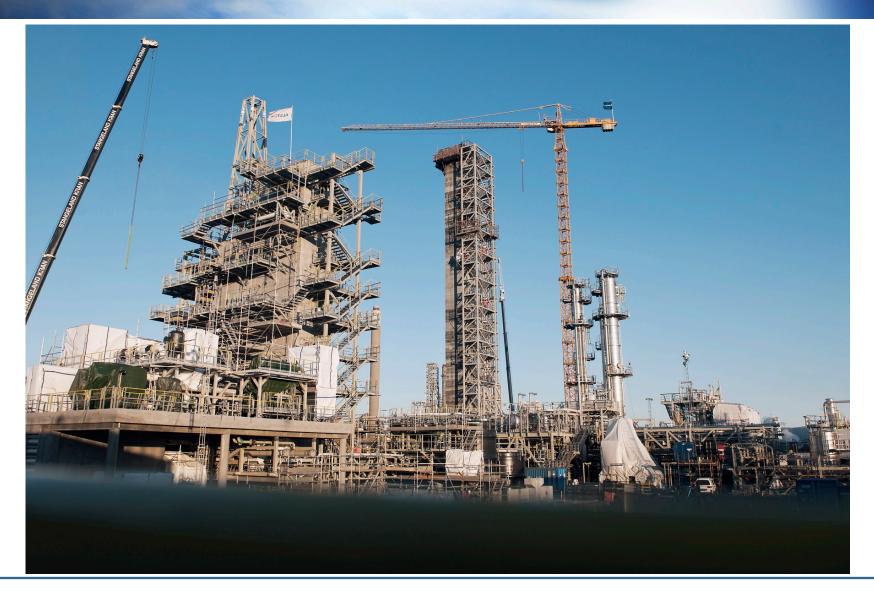


Mechanical installations



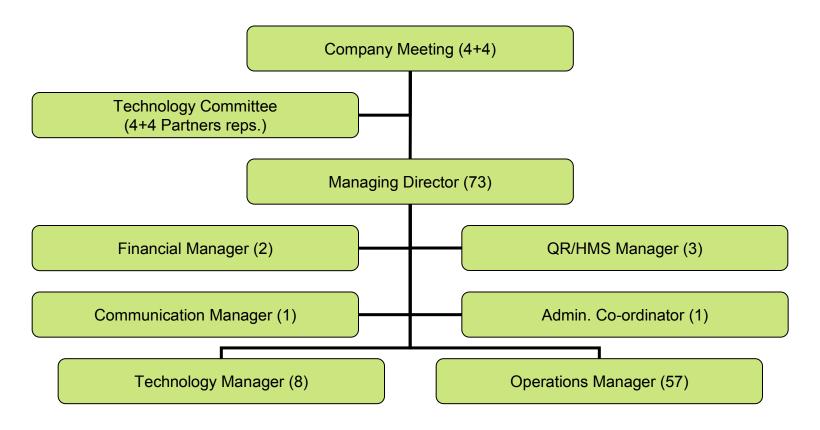






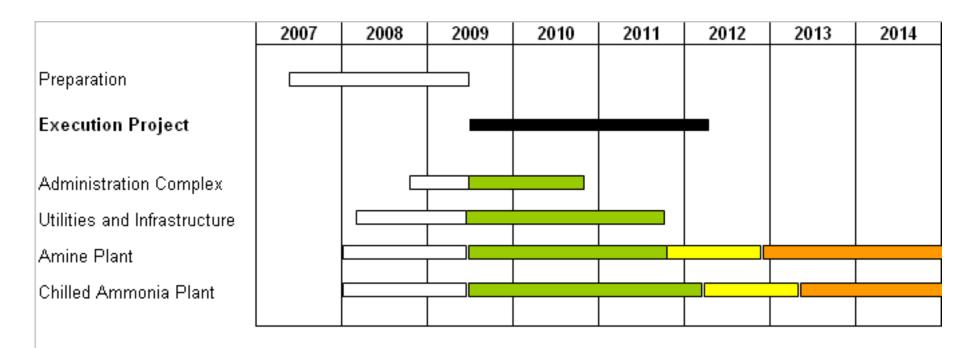


TCM organisation build up





Schedule



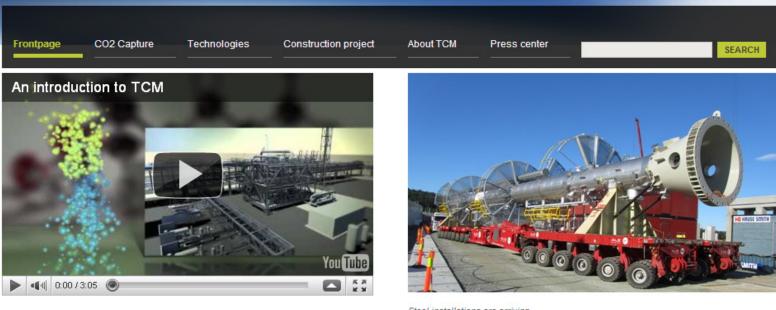


Knowledge sharing

- Co-operate with research organisations and other CCS projects
- Participate in CCS conferences and give papers
- Keep outside world updated on status through website
- Good communication with media and NGO's
- Subject to vendor confidentiality agreements



Combat climate change through technology



Steel installations are arriving

www.tcmda.com



South-African ambassador impressed by CCS center



Visit by Members of the Norwegian Parliament



2 million work hours without any serious incidents

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.



Our Objectives

