

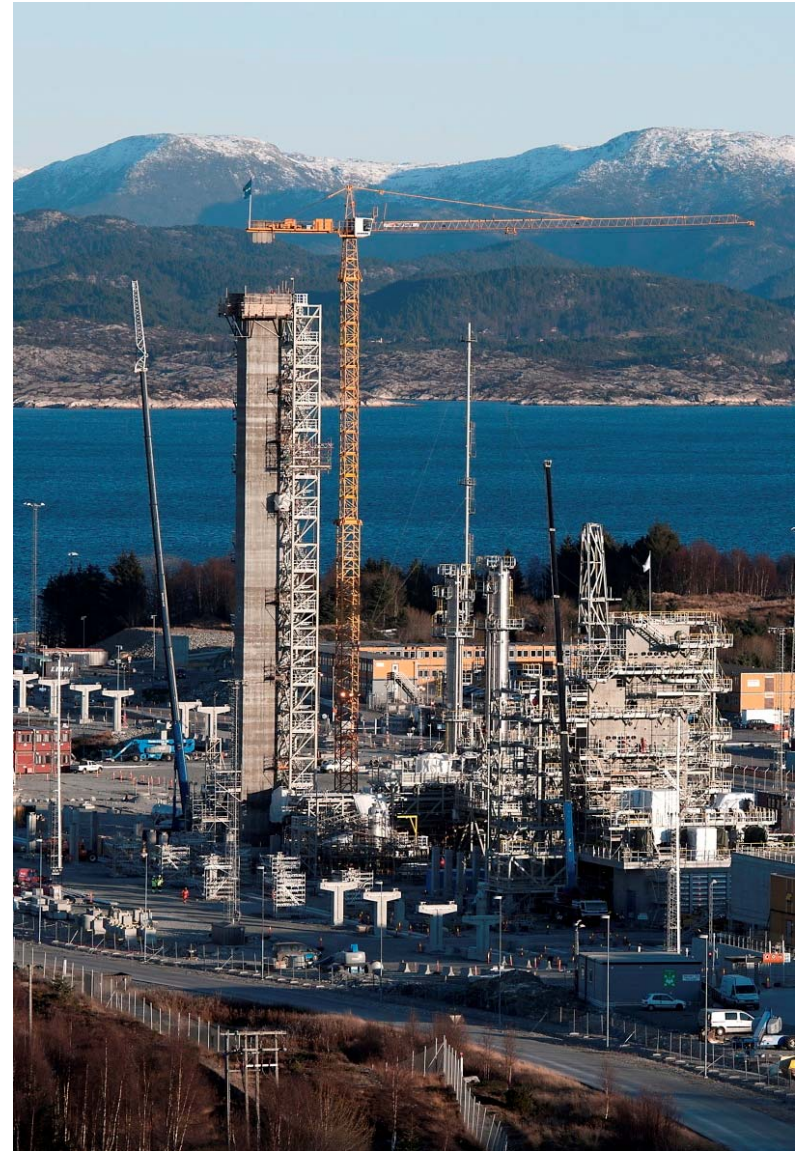
# Technology Centre Mongstad

Technology Manager Olav Falk-Pedersen



TCM is the world's largest facility for testing and improving CO<sub>2</sub> capture.

Knowledge gained will prepare the ground for CO<sub>2</sub> capture initiatives to combat climate change.



# Ambitions

- Test, verify and demonstrate CO<sub>2</sub> capture technology owned and marketed by vendors
- Reduce cost, technical, environmental and financial risks
- Encourage the development of market for CO<sub>2</sub> capture technology
- Aim at international deployment

# International Co-operation



75.12%



20%



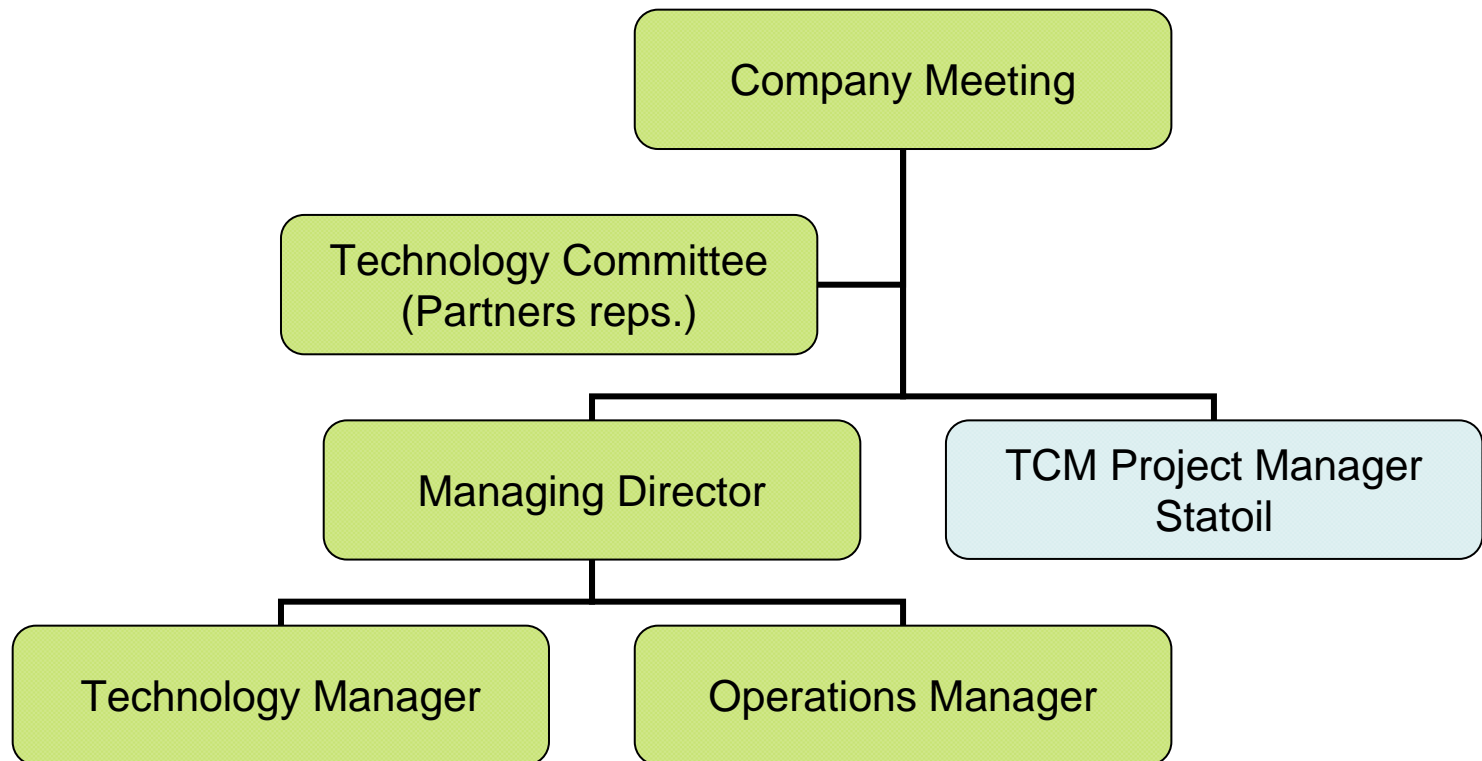
2.44%



2.44%

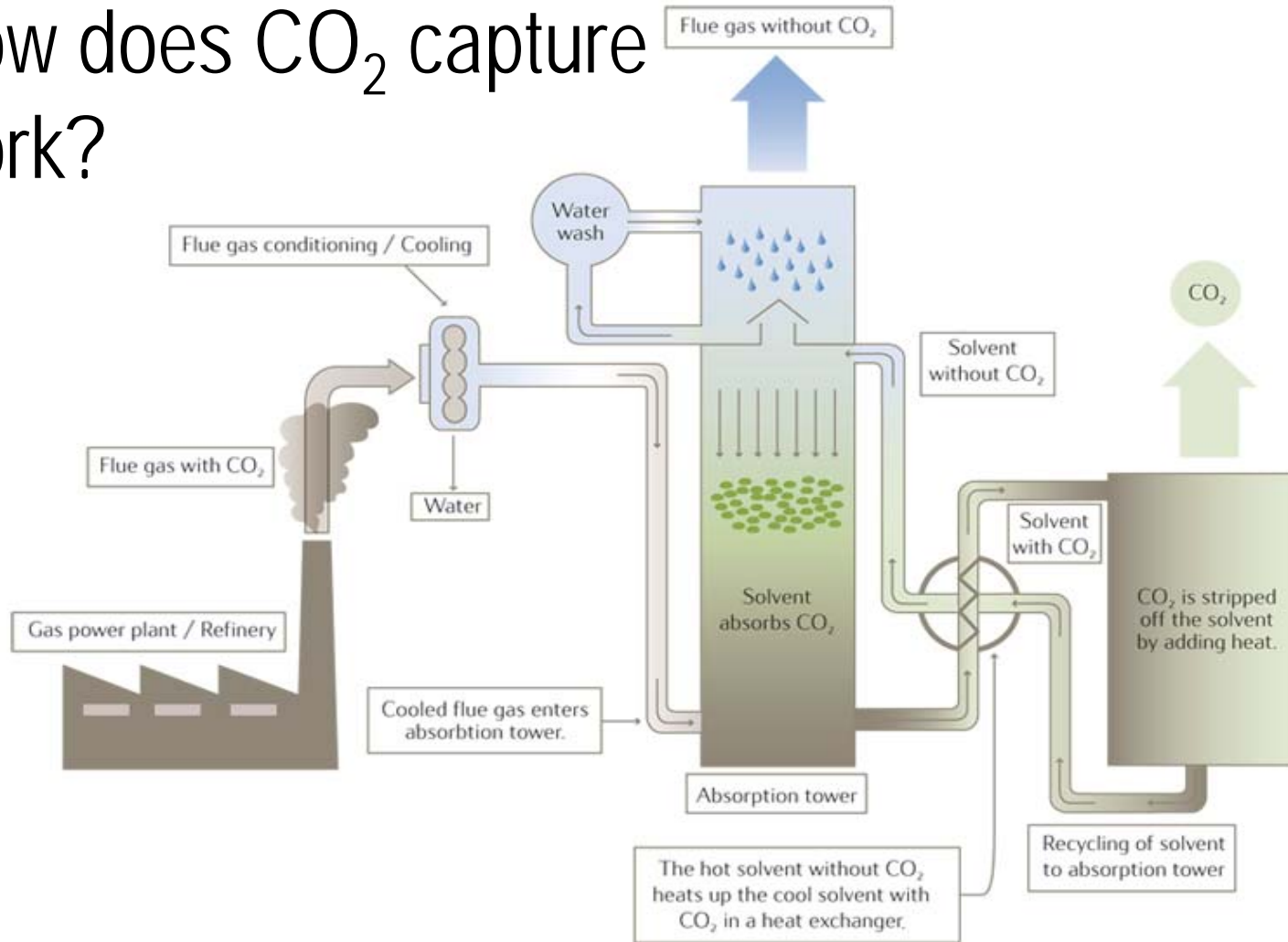
Other potential partners to be invited

# TCMs organization

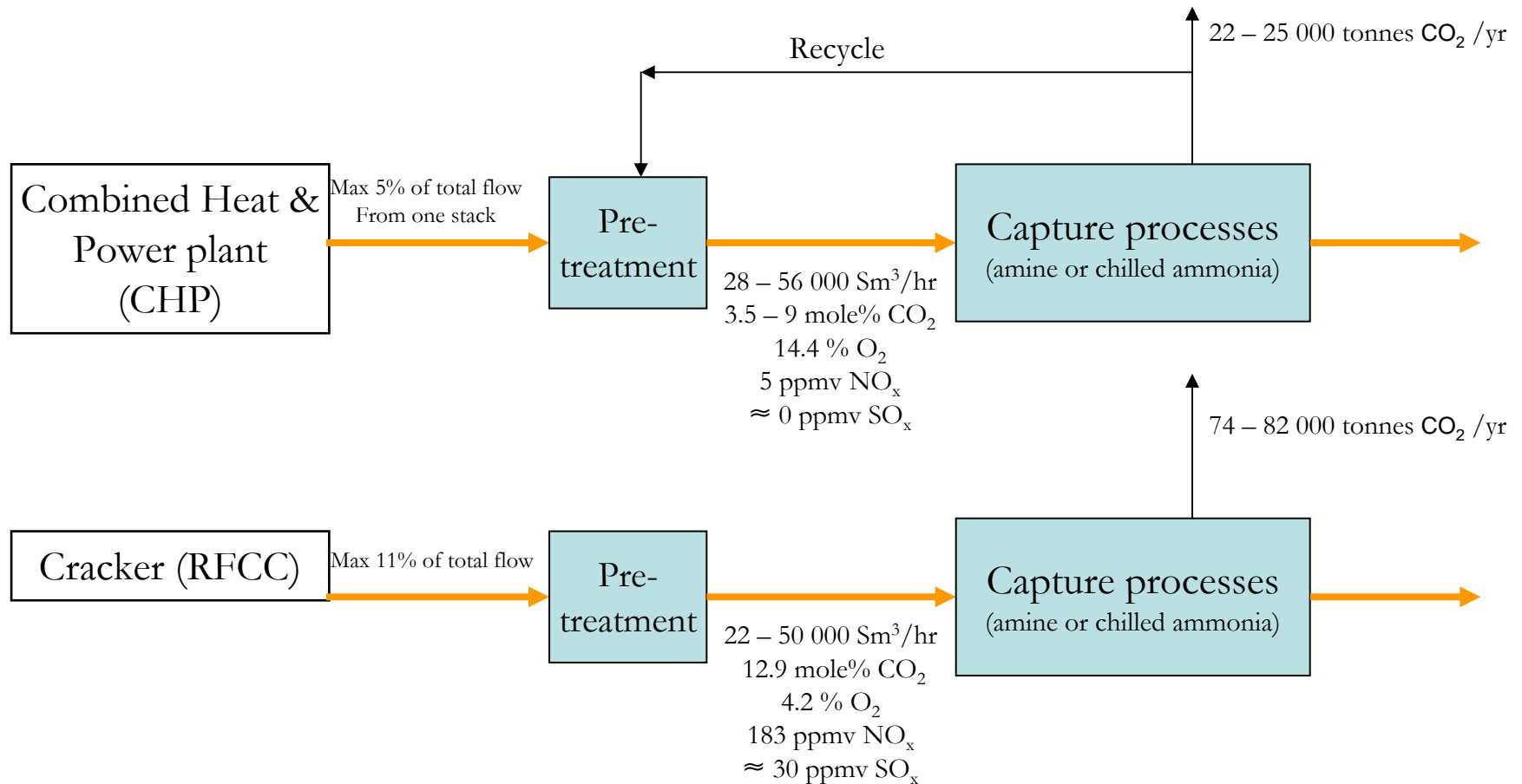




# How does CO<sub>2</sub> capture work?

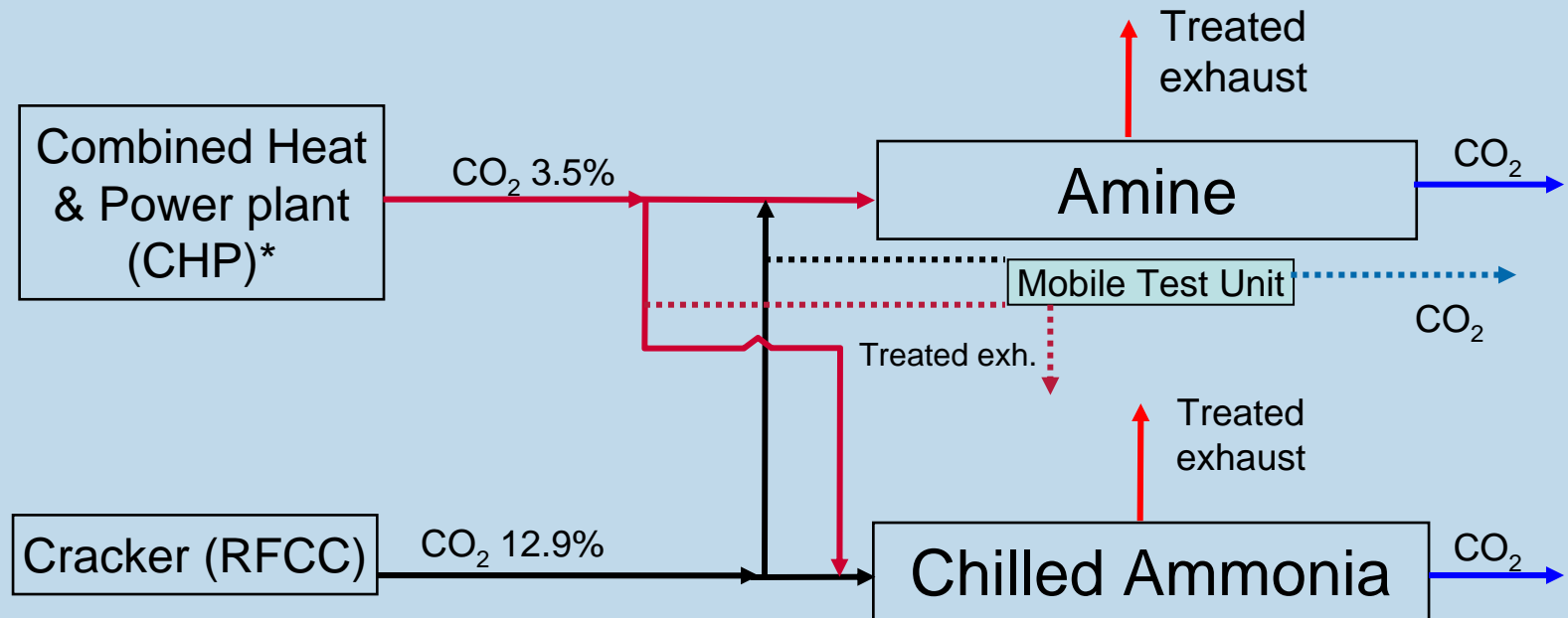


# Two flue gas sources



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

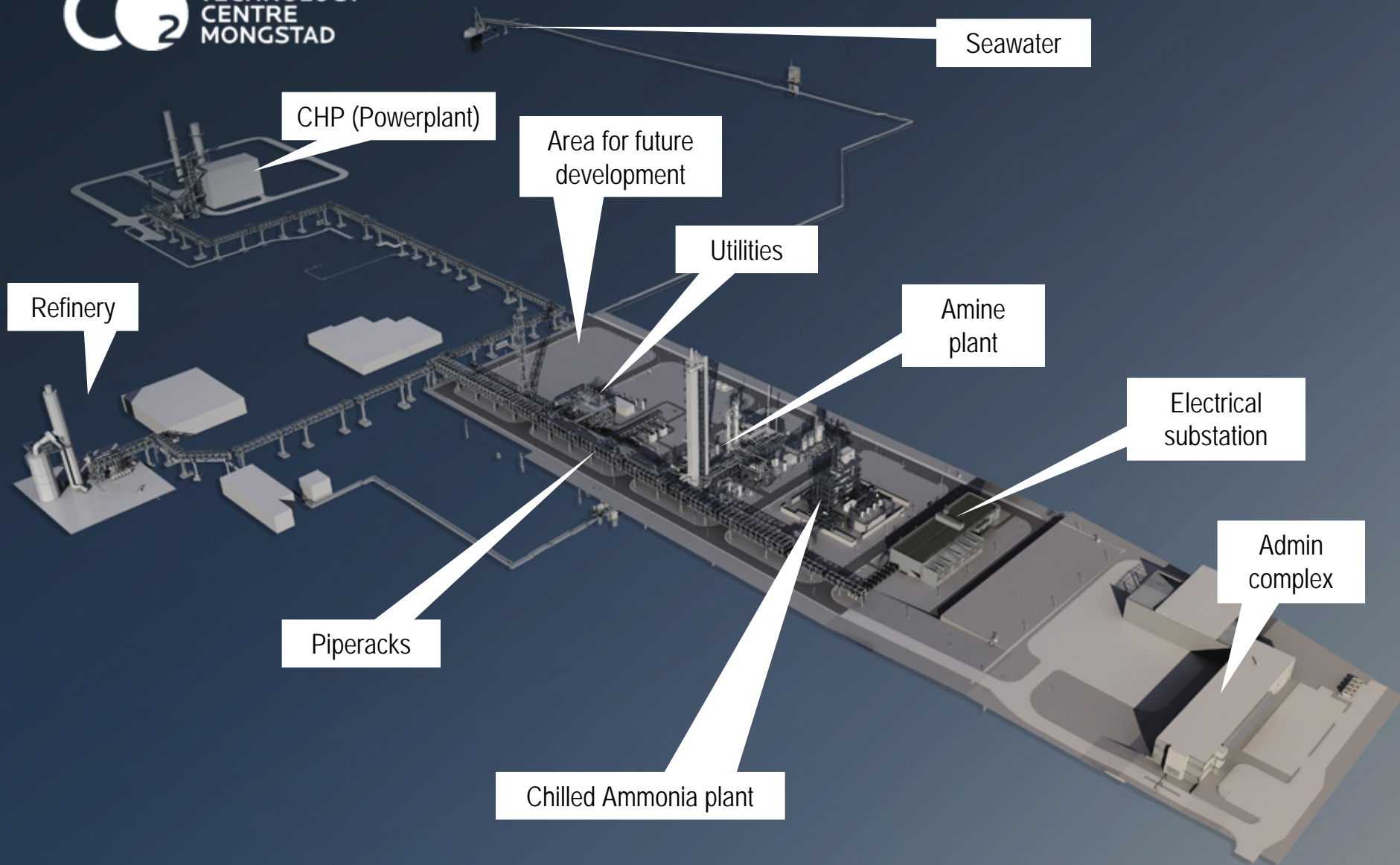
# Test Strategy – Overall Concept



Total capacity 100 ktonnes CO<sub>2</sub> per year

\* CHP design capacity of 280MW electricity and 360MW heat.









# Key figures for TCM

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



# Prefabrication



# Fabrication of equipment



– catching our future



# Piperacks installed





# Seawater intake



– catching our future



# Mechanical installations

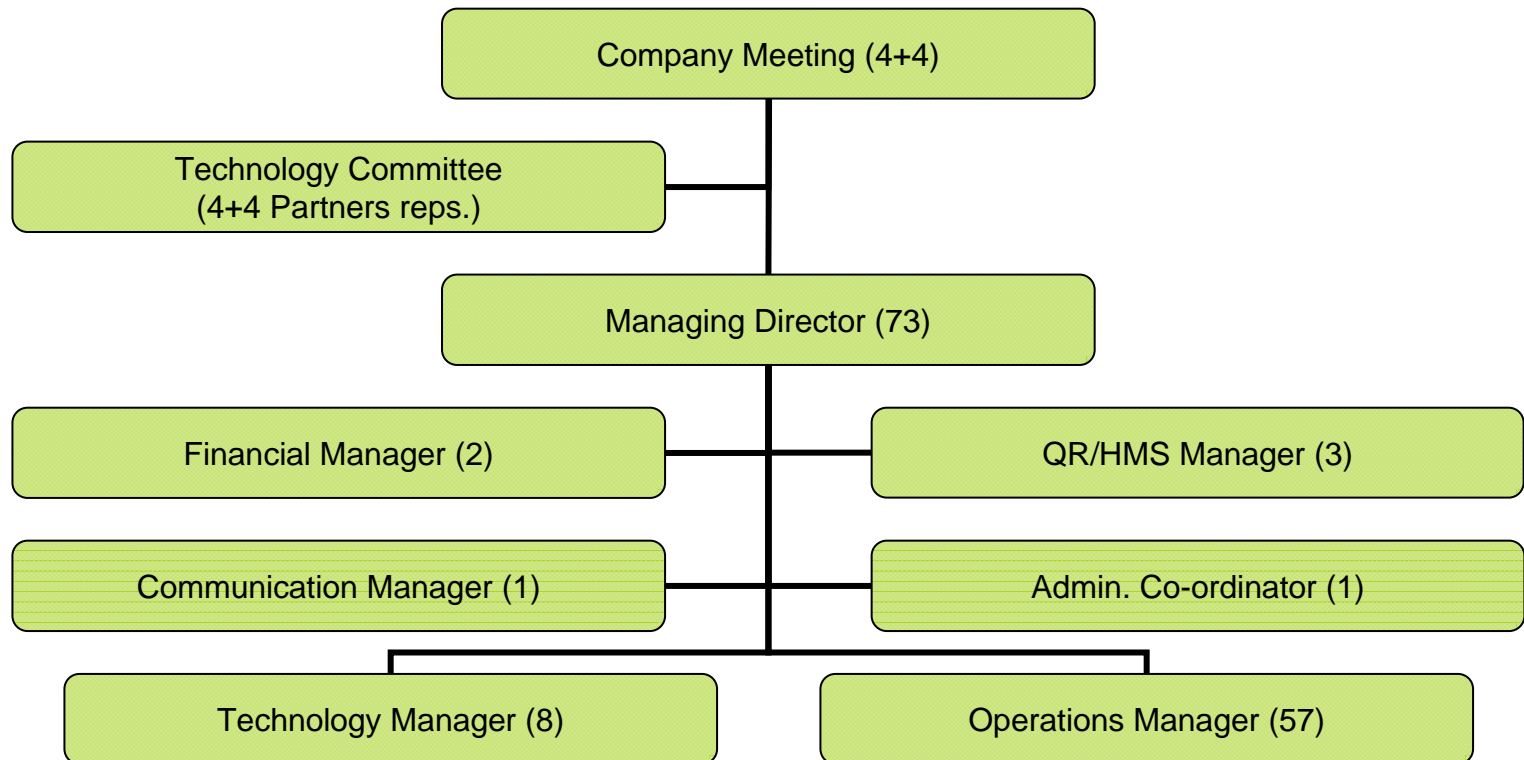


– catching our future





# TCM organisation build up



## 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

**Frontpage**

CO<sub>2</sub> Capture

Technologies

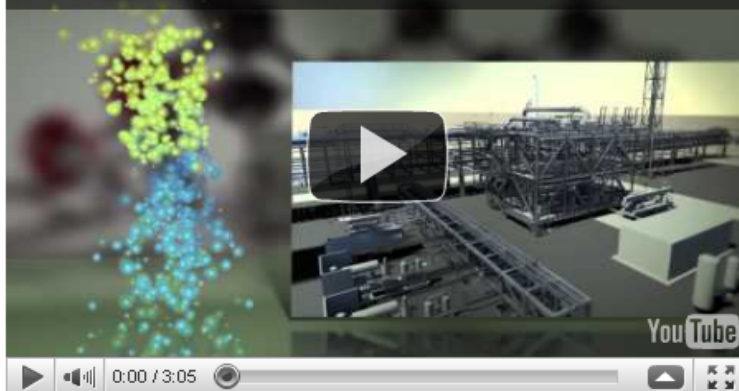
Construction project

About TCM

Press center

SEARCH

## An introduction to TCM



*Steel installations are arriving*

NEWS

[www.tcmda.com](http://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**

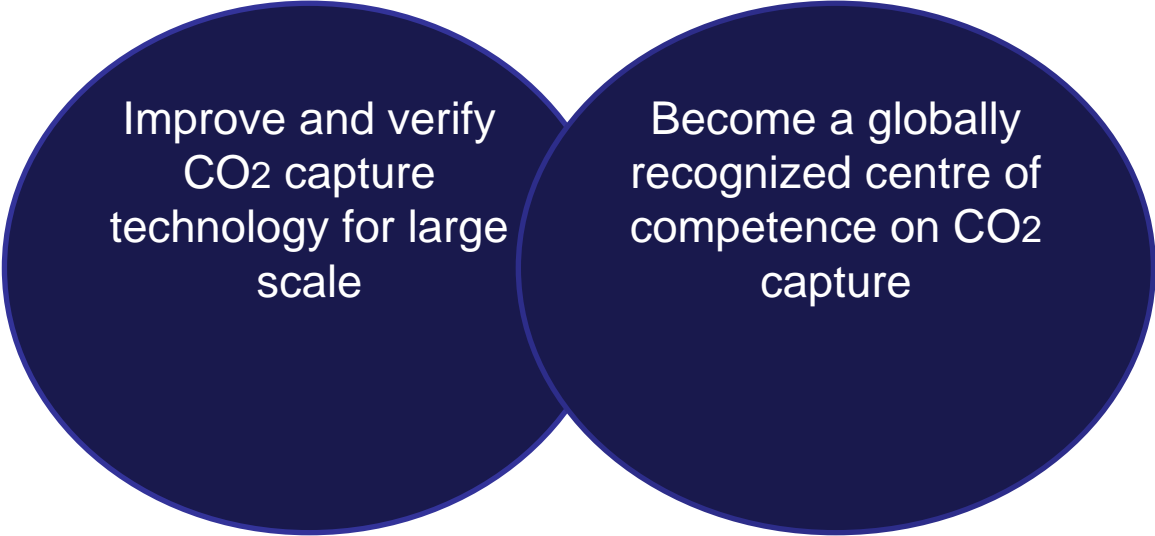
ABOUT TCM

Technology Centre Mongstad is the world's largest facility for testing and improving CO<sub>2</sub> capture. Knowledge gained will prepare the ground for CO<sub>2</sub> capture initiatives to combat climate change. TCM is a joint venture between the Norwegian state, Statoil, Shell and Sasol.

– catching our future



# Our Objectives



Improve and verify  
CO<sub>2</sub> capture  
technology for large  
scale

Become a globally  
recognized centre of  
competence on CO<sub>2</sub>  
capture