

NOTE: Please scroll down to read descriptions from ALL the SINTEF-groups

We hereby provide information from our institution/department/industry to be included in the list of CCS-institution/industry to be published on the ACT-homepage (www.act-ccs.eu).

1. Name of Institution:

SINTEF Materials and Chemistry

2. Abbreviation:

SINTEF MK

3. Department:

Sustainable Energy Technology

4. Speciality (ies) field within CCS:

Capture, Oxy-fuel;
Chemical Looping Combustion (CLC)

5. Web-page:

- Nordic flagship project Negative CO₂ on Bio-CLC founded by NER.
- <http://www.nordicenergy.org/articles/three-flagship-projects/>
- COMPOSITE- New CLC based concepts, founded by NFR.
- <http://flowtechnews.com/2015/04/21/new-project-composite/>
- EU 7th FWP project - Success - on upscaling of materials for CLC for testing in up to 1MW unit.
- <http://www.clc-success.eu/index.php?id=5>
- Acclaim – Steel and Coal programme.
- <http://www.sintef.no/projectweb/acclaim/>
- Democlock 7th FWP fixed bed CLC.
- <http://www.sintef.no/projectweb/democlock/>

6. Other info:

7. Contact person:

Name: Yngve Larring

Position: Senior Scientist

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Place and Date:

Signature:

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1. Name of Institution:

SINTEF Materials and Chemistry

2. Abbreviation:

SINTEF MC

3. Department:

Sustainable energy

4. Speciality (ies) field within CCS:

- Membrane processes and technologies for CO₂ capture in power generation and industrial applications
- Laboratory to pilot scale production and testing of membranes at realistic operating conditions: Pd-alloy membranes for H₂ separation, Polymeric-based membranes for CO₂ separation, Dense ceramic membranes for O₂ and H₂ separation, Dual-phase membranes for high temperature CO₂ separation
- Material development, shaping and forming (extrusion, sputtering, dip-coating, calendaring, tape casting), Advanced characterization and life time investigation.
 - Powder production and optimization; by Granulation and agglomeration methods

5. Web-page:

www.sintef.no

6. Other info:

The Membrane lab is part of ECCSEL (European Carbon Capture and Storage Laboratory Infrastructure, <http://www.eccsel.org/>)

7. Contact person:

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Position: Research Manager

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Phone: +47 98283930

Place and Date: ...11.02.2016

Signature:

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1. Name of Institution:

SINTEF Materials and Chemistry

2. Abbreviation:

SINTEF MC

3. Department:

Sustainable Energy Technology

4. Speciality (ies) field within CCS:

R,D&I on post-combustion CO₂ capture mainly related to absorption and membrane based technologies and processes. This include specifically Solvent development and characterization, membrane development and characterization, piloting (Tiller plants, Gløshaugen minipilot), bench-scale testing, sampling and analysis, online process monitoring, process optimization and control, fundamental models, process simulations, process evaluation and benchmarking including cost-estimation.

5. Web-page:

<http://www.sintef.no/en/sintef-materials-and-chemistry/about-us/departments/co2-capture-process-technology/>

6. Other info: SINTEF MC has large laboratory and pilot facilities for experimental investigations and software modelling tools for advanced simulation

7. Contact person:

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1. Name of Institution:

SINTEF Materials and Chemistry

2. Abbreviation:

SINTEF MC

3. Department:

Materials and Nanotechnology – Material and structural mechanics

4. Speciality (ies) field within CCS:

R,D&I on structural challenges related to CO₂ transport by pipeline and ship

5. Web-page:

Work done in FME BIGCCS on [CO2 Transport](#)

6. Other info:

SINTEF MC has large laboratory facilities for experimental investigations and software modelling tools for advanced simulation in our research on transport of CO₂ in pipelines and ship.

7. Contact person:

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Position: Senior scientist

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SINTEF Materials and Chemistry

2. Abbreviation:

SINTEF MC

3. Department:

Sustainable energy

4. Speciality (ies) field within CCS:

Development of adsorbent based technologies for CO₂ capture:

- Adsorbent (Zeolites, MOFs, grafted silica, etc) synthesis, characterization (XRD, NMR, DRIFTS, etc) and shaping (extrusion, pelletization, misc.)
- Gas adsorption properties of adsorbents (single- and multi-component isotherms, kinetics)
- Modelling of adsorption based processes (PSA, PVSA, TSA, ESA, moving bed)
- Testing in continuous lab scale reactors (PSA, PVSA, TSA, ESA, moving bed)

5. Web-page:

www.sintef.no

6. Other info:

The solid sorbent lab is part of ECCSEL (European Carbon Capture and Storage Laboratory Infrastructure, <http://www.eccsel.org/>)

7. Contact person:

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Place and Date: ...11.02.2016

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