« Screening tests of new hybrid solvents for the post-combustion CO\textsubscript{2} capture process by chemical absorption »

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Carbon Capture in Cement production

Oxyfuel combustion

Post-combustion

Flue gas treatment for CO₂ capture:
- Flue gas treatment for CO₂ capture
- Especially de-NOₓ and de-SOₓ processes
- Adsorption based process
  - Experimental and/or Simulation

Re-use of CO₂

CO₂ conversion into methanol or methane
- Study of the application of these processes to the cement industry
- Overall technical/economic life cycle analysis
- Experimental and/or Simulation
- Effect of impurities on catalysts

Collaboration with HeidelbergCement in the context of the Norcem Brevik Project

“CO₂ capture in cement production and re-use: first step for the optimization of the overall process” (See poster N°405)

“Simulation of the post-combustion CO₂ capture with Aspen Hysys™ software: study of different configurations of an absorption-regeneration process for the application to cement flue gases” (See poster N°63)

Screening tests of new hybrid solvents for the post-combustion CO₂ capture