



Newsletter

CO₂CARE

November 2012

Rock Cores from 600 m Depth Gained

The drilling of a new observation well *Ktzi 203* was carried out at the Ketzin pilot site between August and September 2012. Drilling was conducted as part of the CO₂MAN project with funding from the German Federal Ministry of Education and Research and industry partners (www.co2ketzin.de).



Taking a rock core out of the well Ktzi 203 (Source: GFZ).

Approximately 90 m of high quality cores from the caprock and the storage reservoir were gained from about 595 m to 701 m depth. Special focus lies on the rock cores which have been in contact with the injected CO₂ for four years. The characterisation of these rocks will allow evaluating the results from previous laboratory experiments and modelling which have also been conducted within CO₂CARE. Valuable information regarding the current state of the cap rock samples and the storage reservoir is expected.

WP5 Kick-off Meeting at Imperial College London

On 22 August 2012 the kick-off meeting of work package 5 "*Best Practice and Regulatory Compliance*", led by Andy Chadwick from British Geological Survey (NERC), took place at Imperial College in London.

One task of the work package is the performance of hypothetical closure of CO₂ storage sites, so-called "dry-runs". In cooperation with industrial partners and other stakeholders, WP 5 will utilise the results obtained in WPs 2, 3 and 4 from three real injection sites, *Sleipner*, *K12-B*, and the pilot

site *Ketzin*. Key research findings from WPs 1 to 4 will be distilled and integrated into site closure and abandonment protocols compliant with the EU storage regulation (The Directive, as well as OSPAR and the EU ETS are taken into account).



WP5 Kick-Off Meeting at Imperial College, London (Source: GFZ).

As a result, Best Practice guidelines will be disseminated to key stakeholders (operators/regulators) in workshops and via the website (www.co2care.org) at the end of the project.

GeoHannover 2012 – GeoResources for the 21st Century

The international conference "GeoHannover 2012", organised by the German Society for Geosciences (DGG), took place at the Leibniz University Hannover between the 1st and 3rd of October 2012.



Source: DGG

More than 600 experts attended the conference. The broad spectrum of topics ranged from "raw materials" towards "materials for future technologies" to "geothermal energy", "reservoir rock", and "geological CO₂ storage".

Two CO₂CARE presentations were given at the conference: a) "*CO₂CARE–Site Closure Assessment Research – overview and newest*



Newsletter

CO₂CARE

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results" (Wipki et al.) and b) "Quantification of long-term mineral trapping by siderite and dolomite for different porosity and water saturation scenarios at the Ketzin pilot site for CO₂ storage" (Klein et al.).

CO₂CARE Midterm Review in Brussels

On 8 October 2012, the Midterm Review of CO₂CARE took place at the Brussels Office of the Helmholtz Association. Presentations were given by Mario Wipki (on behalf of the coordinator Michael Kühn) and by all work package leaders (Sevket Durucan, Jean-Pierre Deflandre, Stefan Lüth, Jens Wollenweber, Andy Chadwick, Gualtiero Böhm, and Mario Wipki). Michael Prohaska from the University of Leoben, Austria and Adam Wójcicki from Polish Geological Institute, and the EU-Research Programme Officer, Petre Petrov, were leading the review.

Basis for the review were the submitted milestones and deliverables as well as the 1st Project Periodic Report (M1-M18).

To sum up, the project received a very positive feedback, not only because all requested milestones and deliverables were submitted within period I but also due to a very active collaboration between the individual partners which was very much appreciated.

Having successfully implemented the first half of the project, in the second period the intensity of the project will rise with an increase in deliverable especially in the second half of 2013. It is therefore a great challenge for all partners to deal with this increase whilst maintaining the quality of our work.

Targeted Workshop at IFP Energies nouvelles, Rueil Malmaison, France



Jean-Pierre Deflandre & Andy Chadwick giving presentations (Source: IFPEN).

Right after the review in Brussels, a "Targeted Workshop on Monitoring and Modelling inputs for risk management and dry-runs elaboration" was organised by IFPEN (9-10 October 2012). The workshop was attended by 25 consortium members. Discussions mainly focused on: well and site abandonment issues in WP2 and WP3, risk management in site abandonment, K12-B and implementation of the dry-run application cases, Sleipner and Ketzin, and finally Best Practice and guidelines for CO₂ storage site abandonment.

(Mario Wipki)



1st Project Periodic Report (Source: GFZ).