

NZEC Newsletter Issue 4, October 2009

Welcome to the final NZEC newsletter.

Over the past few months the focus has been on delivering the final reports for the various Work Packages (WPs). A significant amount of time has been spent by all the partners in reviewing and revising these reports. The final NZEC report has also been completed, and includes information on all the WPs.

Activities have also been leading towards the final NZEC event in Beijing, on **Wednesday 28 and Thursday 29 October 2009**.

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Studentship Networking Event

On the 13 and 14 August NZEC provided a networking event in London for the six students. The event was organised by AEA and hosted by Imperial College London. It was an opportunity for the students to meet and learn about the CCS research they had been doing so far at their respective universities.

Zhu Dechen from the Imperial College London discussed 'Water balance for the integration system of power plant and MEA (monoethanolamine) scrubbing system'. Dechen's research has confirmed that by integrated consideration of the water system in the power plant, total water use can be reduced by up to 12%.

Wang Zhen, also from Imperial College London, discussed an 'Equilibrium model for CO₂ capture using amine in power plant'. Zhen presented a simulation of a coal-fired power plant performance with CO₂ capture, using MEA (monoethanolamine) and MDEA (methyl diethanolamine). Zhen has now completed the studentship at Imperial College London and has returned to China.

Fang Bin from Cambridge University described his work on a Chinese CCS Development Review, based on current technology, policy, and attitudes, with an explanation of the possible options for China to develop CCS. Bin has now completed his studentship at Cambridge and has returned to China.

Zhai Rongrong from Cranfield University presented her research on 'CO₂ capture based on lime looping cycle', highlighting the possible ways to use recovered heat in power plants.

Qiao Xiaojuan from Edinburgh University discussed the 'Influence of coupled processes on the integrity of cap rocks'. Xiaojuan presented an investigation of CO₂ geosequestration, and the scientific problems faced during the injection of CO₂ into saline aquifers.

Yang Zihao, studying at Heriot Watt University, presented his research into 'CO₂ injection for enhanced oil recovery'. Zihao highlighted the possible mechanisms for the injection, and focused particularly on the potential role of water-oil emulsion and the effects CO₂ has on this.

The students, Dr Jon Gibbins and Mathieu Lucquiaud with AEA representatives outside the Grantham Institute for Climate Change at Imperial College London



Ben Mckie from DECC presenting to the students and AEA representatives.



Technical Review Meeting, Beijing

The final NZEC Phase 1 Technical Review Meeting was held in Beijing over two days in early July. This provided the opportunity to review the status of all key deliverables and to resolve any associated technical and logistical issues. The meeting was very well attended by project team members and partners.

Final NZEC Event, Beijing

We are now looking forward to the final NZEC event on Wednesday 28 and Thursday 29 October 2009, in Beijing.

The two day conference is being hosted by the Chinese Ministry of Science and Technology, the European Commission, and the UK's Department of Energy and Climate Change. During this event the final report will be launched, with presentation of the key findings of the NZEC, COACH and STRACO2 projects. The conference will also explore plans and expectations for the next phases of NZEC, including the design, site selection, and construction of a CCS demonstration plant in China.

The conference is only open to invited persons and will be attended by representatives from all of the project partners.

For any queries regarding the event, please contact:

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