

Press Release

CCP PUBLISHES RESULTS FROM THIRD PHASE OF PROGRAM

The CCP (CO₂ Capture Project) has published comprehensive results of work from its award-winning third phase of activity, CCP3, in a new volume entitled *Carbon Dioxide Capture for Storage in Deep Geologic Formations – Results from the CO₂ Capture Project Volume 4*.

The new volume – which follows those published for the first two phases of CCP activity – is available to download at www.co2captureproject.org/reports.html.

CCP3 was recently recognised with a CSLF Global Achievement Award, reflecting CCP’s role as an exemplary model of science-based research, development and demonstration. Key CCP3 projects featured in the new volume include two field-based capture demonstrations, R&D results for new, promising CO₂ capture technologies, a comprehensive set of studies evaluating the deployment of CO₂ capture in oil and gas applications, a series of storage monitoring technology field trials, and a range of studies and reports that have significantly increased understanding of CCS potential for the oil and gas sector.

Newly elected CCP Chair Jonathan Forsyth, comments: “The sharing of results and insights from our CCS R&D with the technology community and wider energy-industry stakeholders is an important aspect of the work of the CCP. We are therefore delighted to have published this latest volume of our work and hope that the findings from the last five years of our program will help to inform the progress of low-carbon energy solutions.”

CCP3 delivered a portfolio of CO₂ capture projects including demonstrations at representative industrial scale for key technologies of interest, supported a shortlist of new technologies to advance their development towards readiness for field-based pilot testing, scanned the landscape for emerging new technologies to understand their potential and evaluated the application of state of the art technology for specific applications.

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One of the key capture projects highlighted is a Once Through Steam Generator (OTSG) oxyfiring pilot for steam-assisted heavy oil extraction – carried out in Alberta, Canada on a retrofitted 50 MMBTU/hr OTSG unit. The recently released results contained in the volume showed that the OTSG could be operated safely in oxy-firing mode and that the transitions between oxy-firing and air-firing could be carried out smoothly and safely. This result confirmed that existing commercial OTSGs could be retrofitted for CO₂ capture and could provide operational flexibility by smoothly transitioning from oxy-firing to air-firing whilst maintaining constant steam output.

With regard to CO₂ storage, the new volume details the considerable progress made in supporting the technical case for CO₂ assurance. The programme focused on better understanding and challenging assumptions around the behaviour of CO₂ stored underground, development of monitoring and verification technologies and contingencies planning to demonstrate safe and secure geological containment. Work included modelling and simulation, lab experiments and field deployments.

The work of CCP over the last 15 years has created a significant body of knowledge. CCP remains committed to its central objectives of driving down the cost of CO₂ capture technologies for future use by the oil, gas and power generation industries and of building better understanding of CO₂ storage and monitoring technologies.

A new program – CCP4 – is underway with an overall focus on supporting the development and demonstration of new CCS technologies for both CO₂ capture and storage. To find out more about CCP4 and for updates on CCP news, register at www.co2captureproject.org, while a CCS educational tool is also available at www.ccsbrowser.com.

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Notes to Editor

The CCP (CO₂ Capture Project) is a partnership of major energy companies working together to advance the technologies that will underpin the deployment of industrial-scale CO₂ capture and storage (CCS).

Since CCP's formation in 2000, it has undertaken more than 150 projects to increase understanding of the science, economics and engineering applications of carbon capture and storage.

The partnership works alongside specialists from industry, technology providers and academia to advance technologies, improve operational approaches and help make CCS a viable option for CO₂ mitigation in the oil and gas industry. CCP has been working closely with government organizations – including the US Department of Energy, European Commission and 60+ academic bodies and global research institutes.

The members of CCP's fourth phase are: BP, Chevron, Petrobras and Suncor.

The new CCP Chair, Jonathan Forsyth, BP Carbon Solutions Technology Manager, takes over from Nigel Jenvey. With more than 30 years' experience working in projects, engineering and technology in industry, Jonathan has a passion for low-carbon energy solutions and a strong track-record of delivery. Vincent Kwong, from Chevron, remains Deputy Chair.

For further information on CCP and its projects, register at www.co2captureproject.org.

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