



IEAGHG Information Paper: 2017-IP8; New Road Map for CCS in Australia

A new report entitled: '*Roadmap for Carbon Capture and Storage*' has been developed by the University of Queensland and involved a steering committee comprising the Commonwealth Government, NSW Government, CSIRO, CO2CRC Limited, ACALET (COAL21 Fund) and ANLEC R&D. The report can be found at:

http://www.co2crc.com.au/wp-content/uploads/2017/02/UQE003_CCS_report_HR.pdf

A media release from the CO2CRC, one of the members of the Australian IEAGHG consortium, and one of the report's authors, gives some context regarding the Australian situation and the need for this roadmap can be found at:

<http://www.co2crc.com.au/comprehensive-support-carbon-capture-storage-australia/>

The Key Messages from the Road Map are:

1. Deployment of Carbon Capture and Storage (CCS) is vital to Australia's long-term economic prosperity and energy security.
2. CCS must be available on its merits in Australia's energy mix to assure energy system security and affordability so that future emissions reductions targets are delivered at the lowest economic cost.
3. CCS is required beyond use in the power sector as it will play a vital role in decarbonising energy intensive industries, which involve the continued use of fossil fuels.
4. CCS is not an experimental technology. It is being deployed or available now at commercial scale to:
 - provide a competitive, carbon reduction option for reliable 24-7 power from fossil fuels.
 - decarbonise a number of existing and prospective emissions-intensive industries including natural gas and LNG production, iron and steel making, cement production, fertilisers, chemicals and textiles.
5. The deployment of CCS globally is critical for Australia's trade balance and jobs that underpin coal and gas exports.
6. Leadership in CCS could enable new industrial production in Australia and provide an opportunity to increase competitiveness and create jobs in high value adding sectors, while achieving emissions reduction targets.
7. Urgent early investment in CCS is required to assure that CCS can be deployed to achieve the deep reduction in greenhouse gas emissions required to achieve national and global targets.
8. This Roadmap is a call for significant additional funding for CCS Research, Development and Demonstration (RD&D) from Government and Industry.
9. Government and Industry should consider significant ongoing investment in CCS for:
 - CO₂ storage characterisation
 - Legal and regulatory capacity
 - Monitoring international CCS deployment
 - Techno-economic assessments



- Engagement to achieve public acceptance. Such investments may require CO₂ storage demonstrations.

10. The Australian Government currently has a range of energy security and climate change reviews planned or in progress. CCS must be one of the technologies considered in such reviews.

John Gale
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