



## Location(s)

Various across Australia

## Mission

Facilitating PCC (Post-combustion CO<sub>2</sub> capture) as an energy efficient, environmentally benign, cost-effective low-emission technology for Australia

## Sponsor/Ownership

Various

## Website

[csiro.au/en/Research/EF/Areas/Coal-mining/Carbon-capture-and-storage](http://csiro.au/en/Research/EF/Areas/Coal-mining/Carbon-capture-and-storage)

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CSIRO has operated a PCC research program since 2005, supported by the Australian Government, the State governments of Victoria and New South Wales and industrial stakeholders. The program is based on technology demonstration using pilot plants and laboratory-based technology development.

Pilot plants (~ 0.1 MW<sub>e</sub>) have been established in Victoria (AGL - Loy Yang), New South Wales (Delta Electricity - Vales Point) and Queensland (Stanwell - Tarong) and operate on flue gases from brown or black coal combustion. Pilot plant research has been extended from the assessment of the technical process performance to the assessment of environmental process performance in long-term evaluations. Added value is provided through the conduct of dispersion modelling using in-house developed atmospheric chemistry tools. A solar thermal facility for the provision of absorbent regeneration heat is also available.

Laboratory research has focused on the development of new amine-based formulations and design/synthesis of new amine molecules, augmented by innovative process and equipment design. The research also includes aqueous ammonia as a potential liquid absorbent. A process development facility is available for evaluation of new amine based processes and technology. Other areas of research include solid sorbents and membranes.

