

Senate Standing Committee on Economics
ANSWERS TO QUESTIONS ON NOTICE
Innovation, Industry, Science and Research Portfolio
Additional Estimates Hearing 2007-08
21 February 2008

AGENCY/DEPARTMENT: INNOVATION, INDUSTRY, SCIENCE AND RESEARCH

TOPIC: CSIRO - Commercial Partners in Pilot Programs

REFERENCE: Question on Notice (Hansard 21/2/08, Page E61)

QUESTION No. AI-12

Senator MILNE—Also on notice, who are the commercial partners in each of those particular pilot programs? I presume there are commercial partners in relation to them.

Dr Garrett—In terms of the normal way in which the CRC operates in this area, there is a number of partners, and we will put that in our answer on notice. I might add with reference to your question around post combustion capture and pilot plants, as I think Beverley intimated we are also working with the Huaneng power group in China in terms of retrofit to one of their power stations in Beijing, a 3,000 tonnes per annum plant.

ANSWER

CSIRO's principal activities in carbon capture and sequestration (CCS) pilot programs involve its post combustion capture (PCC) pilot plants and the CO2CRC Otway project.

- The CSIRO PCC pilot plant program is currently proposed to involve four plants. These are:
 - Loy Yang Power brown coal in Victoria: 1000 (tonnes per annum) tpa, amine-based technology. The partners in this program are CSIRO, Loy Yang Power and the Victorian Government through its Energy Technology Innovation Strategy (ETIS) program.
 - Delta Energy black coal in NSW: 3000 tpa ammonia-based technology. The partners in this program are CSIRO, Delta Energy and the Commonwealth Government through the Asia Pacific Partnership on Clean Development and Climate initiative (APP) program.
 - China Huaneng Group black coal in Beijing: 3000 tpa amine-based technology. The partners in this program are CSIRO, China Huaneng Group, Thermal Power Research Institute and the Commonwealth Government through the APP program.
 - Queensland generator: 3000 tpa amine-based technology. The partners in this program are CSIRO, a Queensland generator that is yet to be announced, and the Commonwealth Government through the APP program.

- The operator of the CO2CRC Otway Project is "CO2CRC Pilot Project Pty Ltd" (CPPL). Industry partners of CPPL are:
 - Anglo American
 - BHP Billiton
 - BP
 - Chevron
 - Rio Tinto
 - Shell
 - Solid Energy, Coals of New Zealand
 - Schlumberger
 - Woodside; and
 - Xstrata Coal