

END-USER ENVIRONMENT



END-USER NAME	RELATIONSHIP WITH CRC	TYPE OF ACTIVITY AND END-USER LOCATION	ACTUAL OR EXPECTED BENEFIT TO END-USER
Monash Energy Pty Ltd	Industry participant	Provision of technical advice relating to CO ₂ storage studies.	Enabled Monash Energy to make decision as to whether or not to take project forward.
Solid Energy (New Zealand)	Industry	Review of CCS opportunities in Otago and Southland, New Zealand.	Provided company expert information on the prospective storage basin in Otago and Southland, New Zealand.
Strike Oil Ltd	Industry	Feasibility study in South Australia	Expert report for strategy planning purposes.
Sydney Gas Ltd	Industry	Engineering & economic study of the effects of injecting CO ₂ into coal seam methane reservoirs.	Expert report for strategy planning purposes.
Trident Energy	Industry	Pre-characterisation study, Victoria.	Expert report for strategy planning purposes.
URS (Indonesia)	Industry	INPEX Masela Project. Carbon sequestration. Economic modelling.	Expert report for strategy planning purposes.
Woodside	Industry participant	Browse Project. Cement deterioration study.	Contributed specific technical report towards R&D efforts.
Worley Parsons	Industry	Peer review of a Strategic Analysis Report for GCCSI, Canberra.	The input of CO2CRC senior researchers was important for Worley Parsons because of their high level of technical expertise and their international reputations.

INTELLECTUAL PROPERTY MANAGEMENT

Intellectual property (IP) management strategies have been developed by CO2CRC to satisfy the National Principles of IP Management for Publicly Funded Research, as described below.

OVERVIEW

Provision has been made in the CO2CRC Participants Agreement that all IP upon creation is automatically assigned to CO2CRC Ltd, which is therefore charged with the responsibility for protection and exploitation of IP. All net proceeds from successful commercialisation of IP contributes to the research or, on windup of CO2CRC, is allocated to the research institutions.

IP DEVELOPED AND COMMERCIALISED DURING THE PERIOD

A Variation of Project Agreement and Assignment of Technology was signed between CO2CRC and Curtin

University in December 2014 to enable Curtin University to proceed with commercial exploitation of a capture technology which CO2CRC had developed, known as 'CO₂ Capture using Cryogenics'.

An Assignment and Royalty Sharing Agreement was in process between CO2CRC and the University of Melbourne to enable the University of Melbourne to proceed with commercial exploitation of a capture technology which CO2CRC had developed, known as 'Composite gas separation membranes' – provisional patent application

IP REGISTER AS AT 31 DECEMBER 2014

1. Patents

In 2014/2015 all existing CO2CRC patent applications which were deemed to be commercially prospective were assigned to, or are in the process of being assigned to, the relevant researchers or universities through formal license deeds.

As at 31 December 2014 CO2CRC did not own any patents and had no patent applications pending.

2. Registered trademarks

GEODISC

- › No. 881931 Class 42 "GEODISC"
- › No. 1094946 Class 42 "CO2CRC logo"
- › No. 1253492 Class 7 "CO2CRC logo"
- › No. 1094967 Class 42 "ICTPL logo"
- › No. 1095107 Class 42 "CO2CRC Pilot Project Ltd logo"
- › No. 1293386 Class 42 and 45 "CO2CRC Technologies logo".

3. Unregistered software

- › Integrated Carbon Capture and Storage Economic Modelling (ICCSEM) Software (UNSW)
- › Forward Modelling Software (Curtin University)
- › Web calculator for computing properties of CO₂ (CSIRO)
- › CO2CRC Publications Tracking System.

4. Industrial designs and circuits

- › Nil.

5. Copyright in publications

- › All GEODISC publications
- › All CO2CRC publications listed in the CO2CRC Publications Tracking System.

6. Know-how and confidential information

All know-how and confidential information, including extensive data sets, which have been generated for CO2CRC since 2007.

IDENTIFICATION OF IP

CO2CRC research is governed by project agreements with each research institution that make provision for project leaders to inform CO2CRC program managers whenever new patentable IP is identified. This is done through the completion of an IP Disclosure Form. In addition, CO2CRC's Commercial Manager maintains an IP database and register. CO2CRC is responsible for determining the commercial potential of new patentable IP and protecting and exploiting the patentable IP as necessary.

PROTECTION OF IP

Project agreements make provision for maintaining confidentiality of research results and for withholding publications and PhD theses as necessary pending a review by CO2CRC program managers in conjunction with CO2CRC's Commercial Manager to determine commercial potential. Research parties must provide assistance to CO2CRC in any subsequent IP protection measures that are required (for example, patent and/or trademark applications).

OWNERSHIP OF IP

All IP upon creation is assigned to CO2CRC by each research institution. In the case of students, especially postgraduate students, their IP rights are assigned to their university through the execution of

a Student Deed of Assignment at the commencement of studies. This enables the university to make the required assignment to CO2CRC.

ASSESSMENT OF IP

Project leaders, in consultation with CO2CRC program managers, are required to report the existence of new IP and to manage any subsequent or consequent restrictions placed on the use of that IP due to commercial sensitivities.

In the main, researchers work on commercially focused research and are made aware of the possibility of restrictions on publication at commencement. Most project leaders have good commercialisation knowledge and understand commercialisation processes.

MANAGEMENT OF IP

CO2CRC has full responsibility for management of IP and for commercialisation. The company has developed protocols and processes for commercial exploitation of new technologies to ensure that there is no IP leakage or inadvertent disclosure of confidential information and know-how.

SHARING OF BENEFITS

Benefits such as royalties, which may accrue to a research institution as a result of successful commercialisation of new IP, are calculated in accordance with the agreed project shares. University employees have rights to a share of the proceeds as defined in the university statutes and it is a matter for each university to make these determinations. Employees of government research institutions such as CSIRO and Geoscience Australia are not generally entitled to any share of royalties. However, CO2CRC's Board may make special recommendations where appropriate, including the payment of bonuses.

SME ENGAGEMENT

The past six months has been a period of consolidation as CO2CRC looks to its future.

During this period the company has been developing strategies to build R&D capacity to provide innovative outcomes that will be attractive to SMEs; the outcome is focused on providing future opportunities for SMEs.

CO2CRC has continued to collaborate with SMEs in both capture and storage providing access to current opportunities for these enterprises.

Of note is the commercialisation of CO2CRC's UNO technology through a start-up company UNO Technology Pty Ltd. This collaboration will see further investment in research and marketing activities.

As a key facilitator in the quest to reduce CO₂ emissions in Australia and globally, CO2CRC also provides the opportunity to engage with SMEs through the Annual Research Symposium, its demonstration facility at Otway and many education programs.

“Benefits such as royalties, which may accrue to a research institution as a result of successful commercialisation of new IP, are calculated in accordance with the agreed project shares.”