



Australian Government is taking a technology-led approach to mitigation



A\$50M Carbon Capture
Usage and Storage
Development Fund

Part of a A\$18billion technology roadmap over the next 10 years to drive investment in low emissions technologies

Applications from 71 projects representing A\$400million

Grantee	Purpose	Amount	Location
Santos	CCS	\$15M	SA
Mineral Carbonation	Materials	\$14.6M	NSW
Corporate Carbon	DACCS	\$4M	SA
EDL	CCU – concrete	\$9M	Various
Boral	CCU – concrete	\$2.4M	NSW

Corporate Carbon
Project to
demonstrate DACCS

First in the world DAC to geological storage demonstration project

A\$4M to be matched with at least A\$4M of other funding from CC and partners

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DAC Project Update

Since being awarded the grant, Corporate Carbon has:

- Completed a global technology review and formed a strategic partnership with an Australian technology supplier, Southern Green Gas, focusing on solar-powered Direct Air Capture
- Commenced discussions with Santos in relation to commercial arrangements and siting options at Moomba
- Formed working relationships with a number of potential hubs that could support DAC demonstration and/or commercial projects
- Entered discussions with potential offtakers of the Carbon Removal Service
- Completed a Business Plan and Feasibility Report

In 2022, we aim to:

- Make FID on world first solar-powered DAC to geological sequestration project, at 1tpd scale, with contracted Carbon Removal as the revenue stream
- Secure a number of strategic partnerships with carbon capture and storage hubs
- Develop a pipeline of potential commercial projects, from 1,000 to 5,000tpa scale
- Raise additional funding (equity of project financing) to support the roll-out

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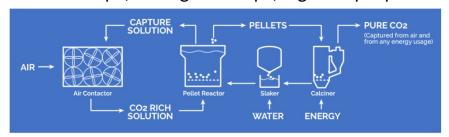




DAC Technology Review

Carbon Engineering (Canada)

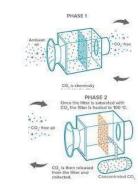
Proven at 3tpd, scaling to 1 Mtpa, high temp aqueous



Climeworks (Europe)

World's first project: 4ktpa in Iceland, solid sorbent





Global Thermostat (US)

Proven at 2ktpa, scaling to 5 ktpa, solid sorbent

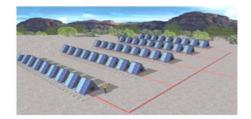


Southern Green Gas (Australia)

Solid sorbent (MOF), modular, solar-powered



Solar powered DAC module Captures 1 to 2 tn pa CO₂



Sustainable CO₂ Capture Hub Comprised of thousands of DAC modules





Carbon Capture Hubs for DAC

Australia is fortunate to be blessed with a strong solar resource and multiple sites capable of sequestration or carbonation.

Corporate Carbon is forming relationships with strategic partners and sites to underpin a sustainable DAC -> CCUS strategy

Need to optimise to lowest cost of compression, transport & storage, based on available solar energy supply





Technology Development to <\$100/t



Source:

- 1. Renewables, LHS: https://ourworldindata.org/cheap-renewables-growth
- 2. Direct Air Capture, RHS: Corporate Carbon modelling
- 3. Refer Lackner et al 2021 https://pubs.acs.org/doi/abs/10.1021/acs.iecr.0c04839

COST REDUCTIONS WILL COME FROM:

1. LARGE SCALE MODULE MANUFACTURE

- Estimate 11-fold reduction in module cost from the 100-module run to the 10,000-module run
- Further reductions to 100,000 modules and beyond

2. IMPROVEMENTS IN MOF:

- energy efficiency, leading to lower energy use per tonne of CO₂ captured
- hydrophobicity; and
- longevity

2023	330tpa
2024	670tpa (1,000tpa combined)
2025	5,000tpa
2026	20,000tpa
2027	100,000tpa
Prior to 2030	1,000,000tpa
20	024 025 026 027



Creating new solutions for carbon market participation

More information and enquiries

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