LETA

Energy Security and the Contribution of Carbon Capture and Storage to the Green Transition in Australia

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Achievements CALLIDE, QLD SURAT BASIN, QLD NSW HARVEY, WA

INVESTED IN ONE OF MOST ADVANCED FIELD-SCALE CCUS RESEARCH SITES.

OTWAY, VIC

- WORLD'S FIRST CARBON CAPTURE DEMONSTRATION FROM A POWER PLANT.
- PROVEN BUSINESS CASE
 FOR AN ALLAM CYCLE PLANT.
- THREE WORLD-CLASS AND LARGE-SCALE STORAGE LOCATIONS IDENTIFIED IN QLD, VICTORIA AND WA.
- CRITICAL RESEARCH INTO
 MANAGING FUGITIVE EMISSIONS.

Global partnerships

Collaboration is crucial to reducing emissions from essential but hard-to-abate industries such as steel and cement manufacturing. Our global and Australian partners include:

GOVERNMENTS
INDUSTRY
UNIVERSITIES
RESEARCH INSTITUTES (including CSIRO and CO2CRC)

LETA's core priorities



DEMONSTRATION Demonstrating new, zero-emission energy technology and clean fuels



DEPLOYMENT Establishing multi-industry LET hubs, helping remove investment risk and encouraging industry involvement



COMMUNICATION Growing awareness, understanding and recognition of LETs and their role in a net-zero carbon economy



ADVOCACY Accelerating investment in LETs through incentive-based policy



ENGAGEMENT Increasing collaboration across industries to establish emissions reduction at scale and faster

"LETA's projects can help establish Australia as a world-leader in low emission technologies and clean energy exports."



What we do

LETA invests in technologies that reduce carbon emissions from industry to help achieve a cleaner energy future.

These low emission technologies, working alongside renewables, create new low and zero-carbon energy, as well as significantly reduce emissions from heavy industry.

LETA's projects can help establish Australia as a world leader in low emission technologies and cleaner energy exports.

Est. **2006**

\$260M

for new projects

\$343M+

invested

\$212M

invested in CCUS

18+ low emission technology projects in development

Supported by the Australian coal industry



CCUS in Australia – a brief history

2003



CO2CRC established to support the development of an Australian CCUS industry

2006



ACALET established with \$300 million funding

2008



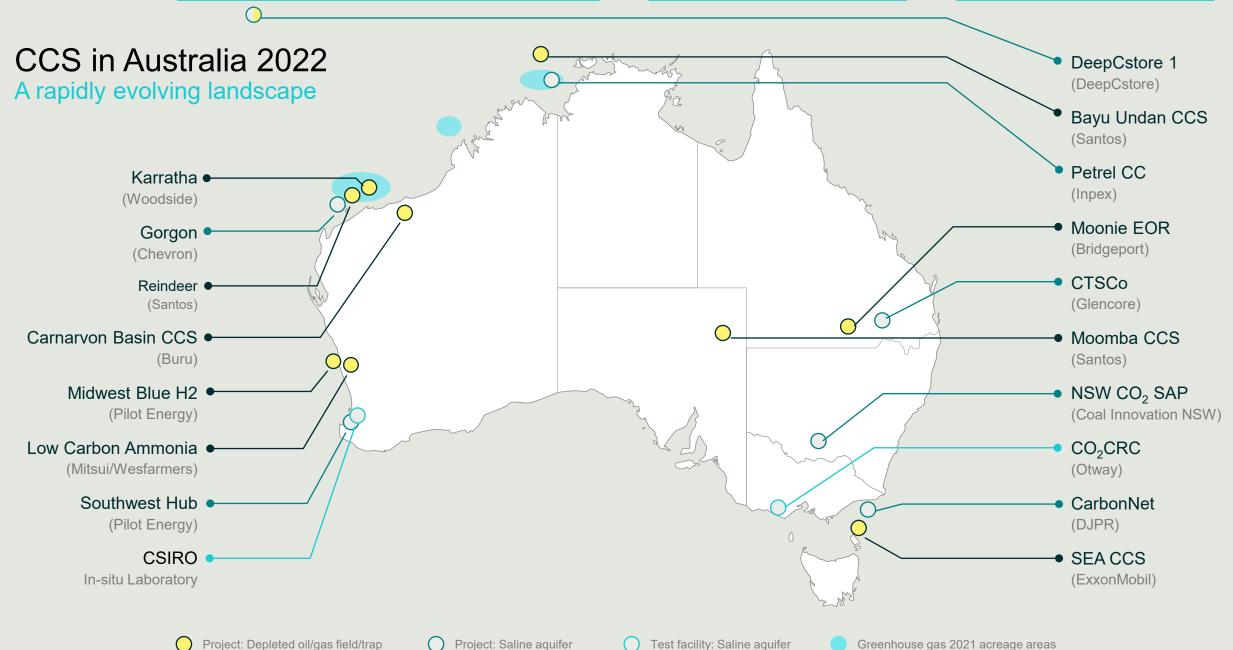
Otway Project safely stores 65,000 tonnes CO2

200



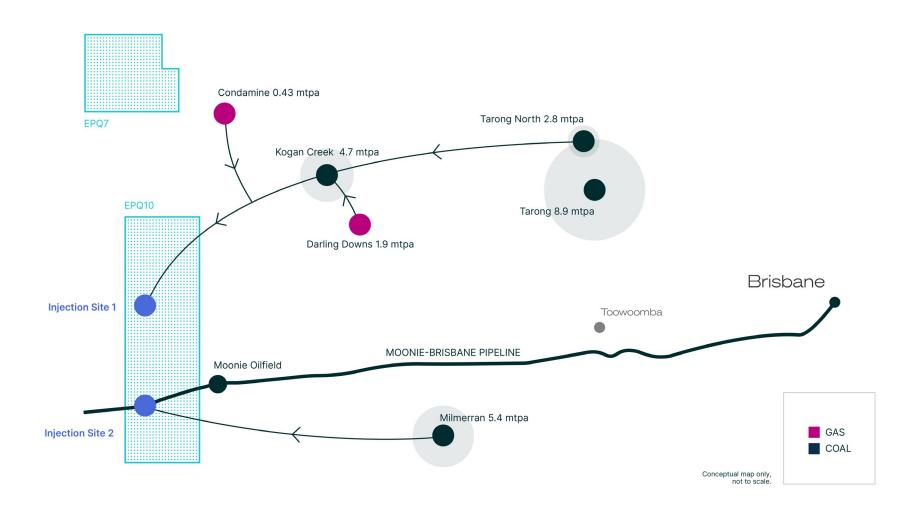
Carbo





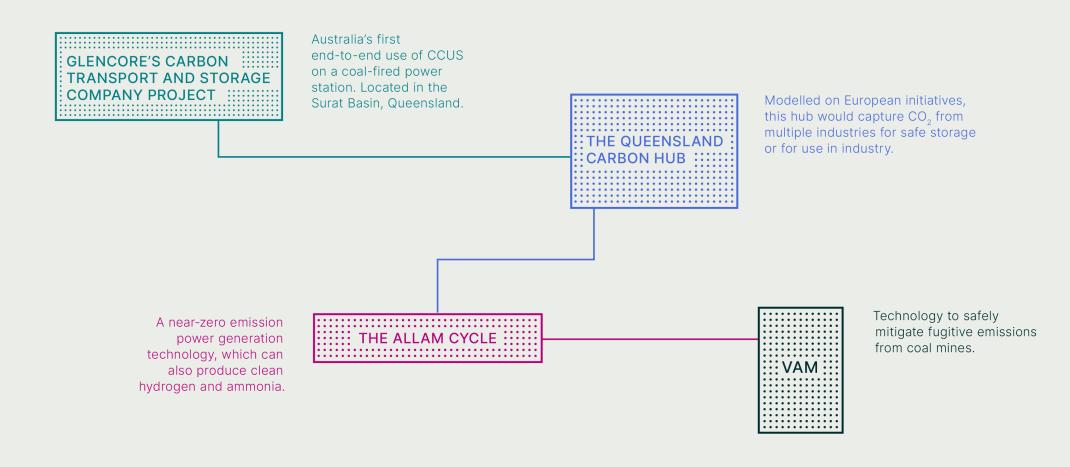


Glencore's CTSCo Project



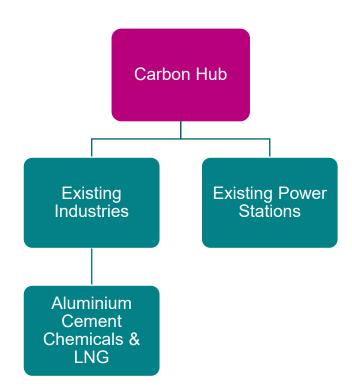
Technology opportunity

LETA projects focus on establishing large-scale carbon storage sites to reduce industrial emissions. On the path to net-zero, our investments are helping unlock the clean industries of the future.



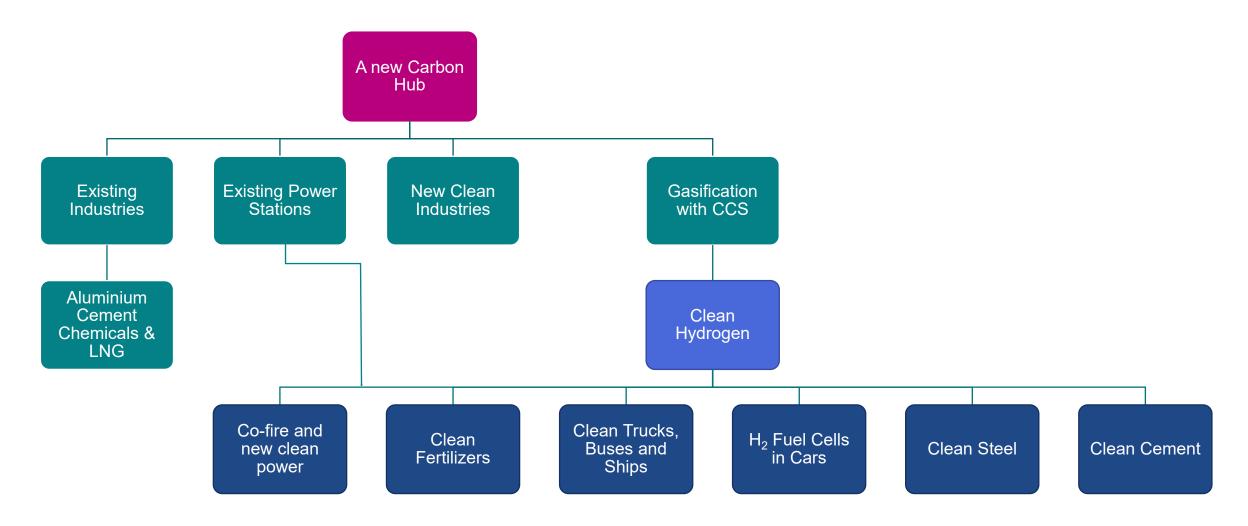
LETA

Australian Technology Opportunity with Large Scale Storage





Australian Technology Opportunity with Large Scale Storage





Australia – Japan Opportunities for Collaboration

Towards Net Zero	Projects	Tech Possibilities	Co-benefits
New clean industries	Coal to Ammonia with CCS in QLD	Allam Cycle	Clean ammonia to Japan and CO ₂ to Australia
	Coal to ammonia with CCS in NSW	Gasification IGCC	Cost competitive
	Coal to Japan, CO ₂ to Australia	PCC	Accelerates technology deployment
New clean export opportunities	Shipping clean ammonia to Japan & CO ₂ to Australia	Transport logistics	Establishing supply chain base for import and export
	2	Shipping	'
		Pipelines	
Emission reductions – electricity sector	Ammonia co-firing	New technology to retrofit boilers.	Cleaner fuels from coal
		Test responsiveness of different coal in technology	Cost competitive
Emission reductions – mining sector	Ventilated air methane	New configurations for demonstration	Cooperation between Japan and Australia
			Knowledge sharing

