



Project Update, Development of CarbonNet's Pelican Site

7th International Workshop on Offshore Geologic CO2 Storage

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17th September 2024



Australian Government
Department of Climate Change, Energy,
the Environment and Water



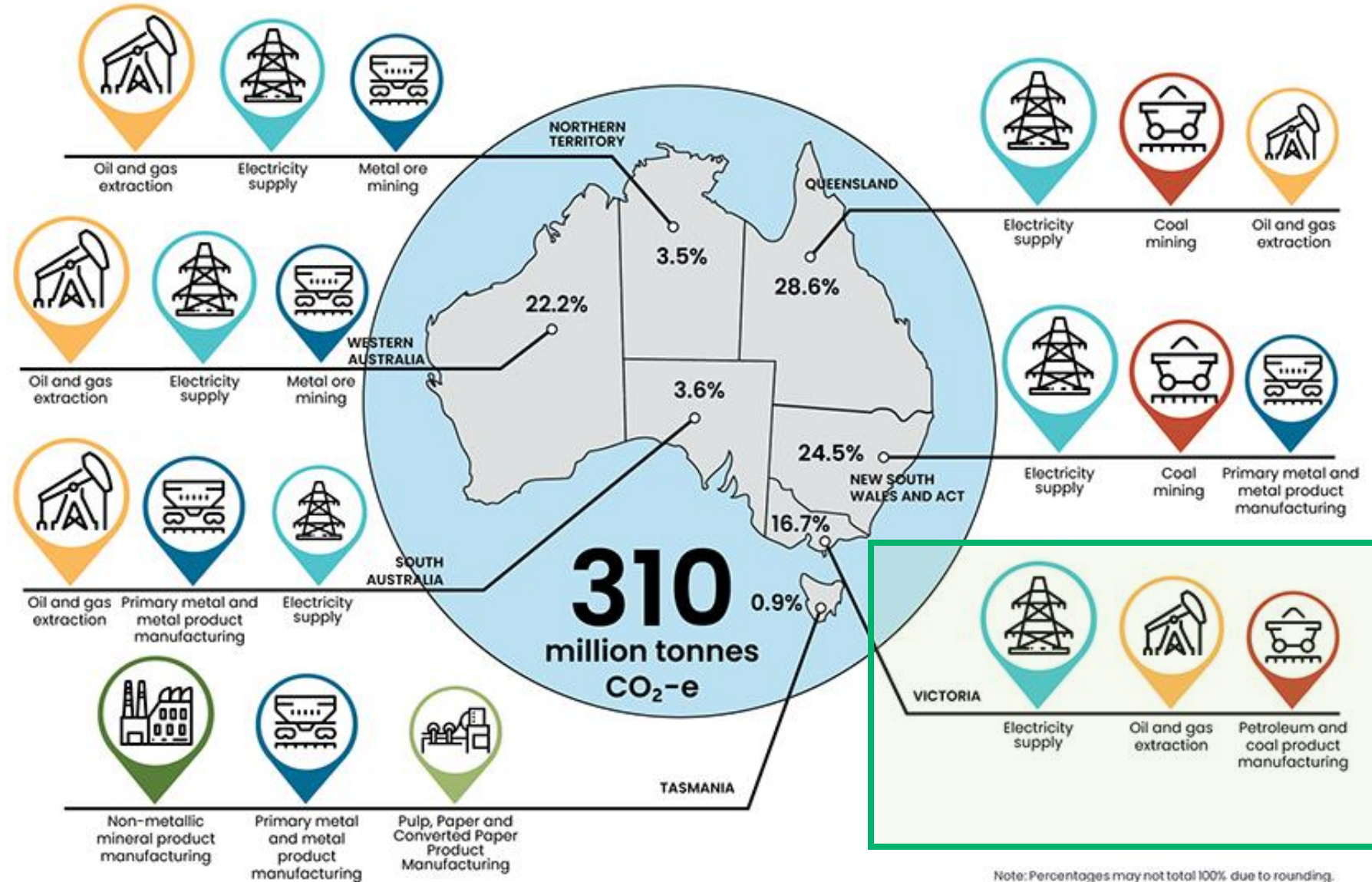
Jobs, Skills,
Industry
and Regions



Australia's decarbonisation challenge



High emissions industries

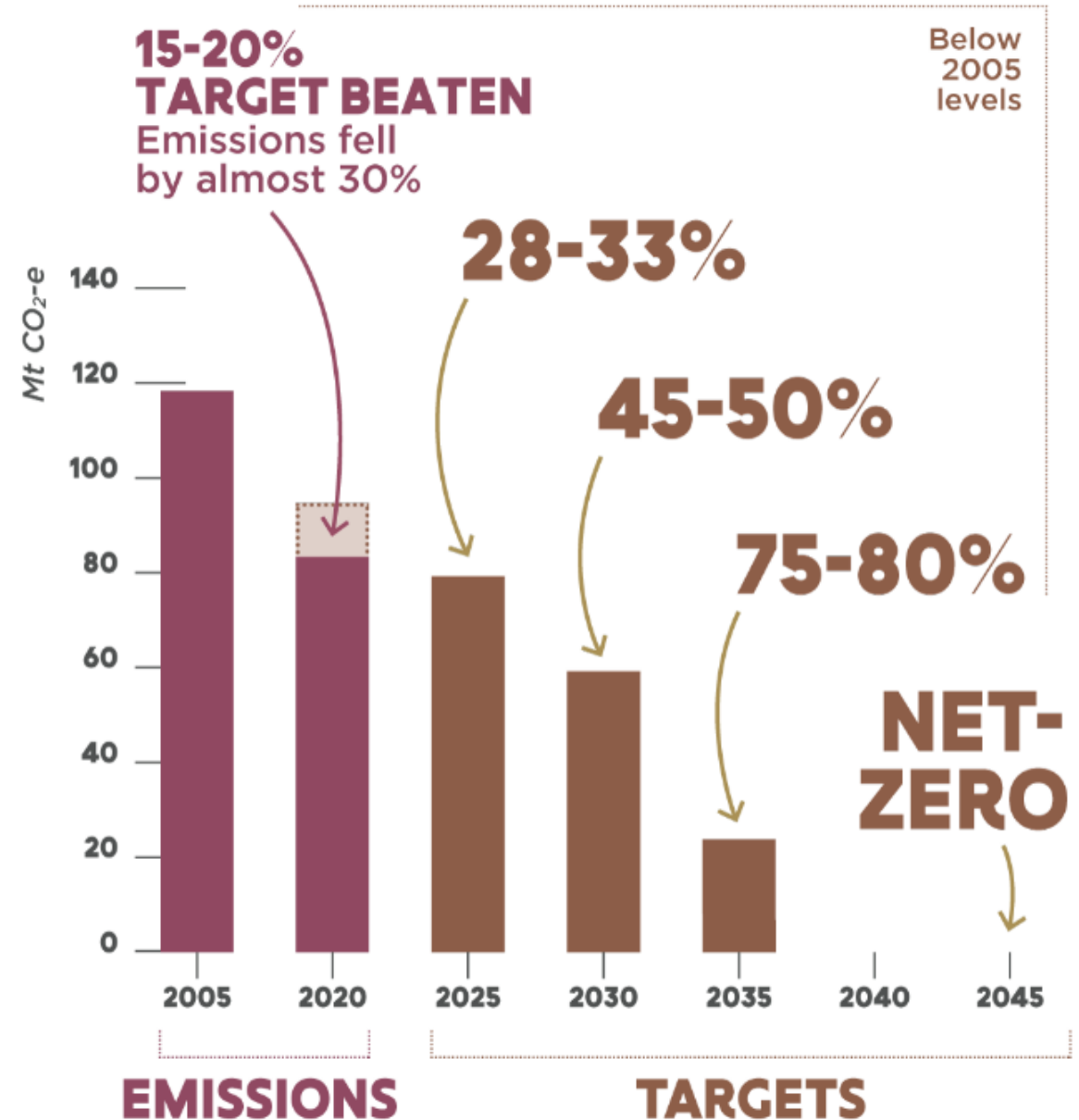


Note: Percentages may not total 100% due to rounding.

Image: <https://cer.gov.au/>

Victoria's emissions targets

Achieve net zero emissions by 2045



Market opportunity

The role of CCUS

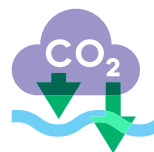
Victoria has world class natural resources and opportunities to develop a substantial economic opportunity in CCUS



Decarbonising industry Low-carbon hydrogen, ammonia & urea



Negative emissions



CO2 Shipping imports

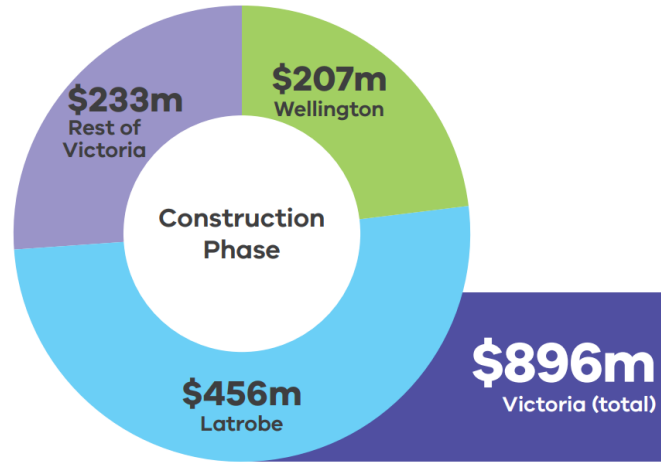


Economic benefits

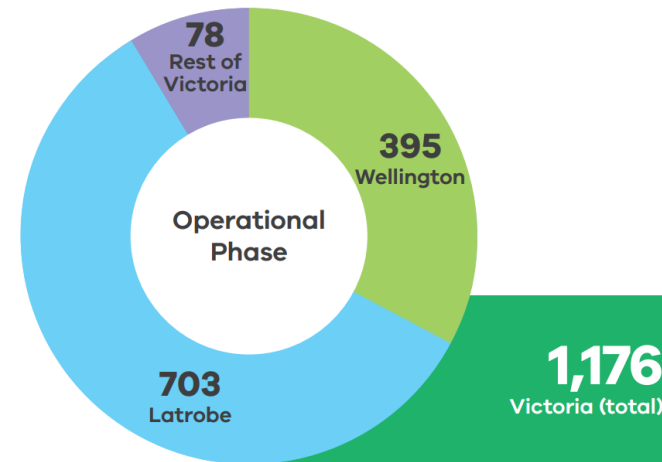
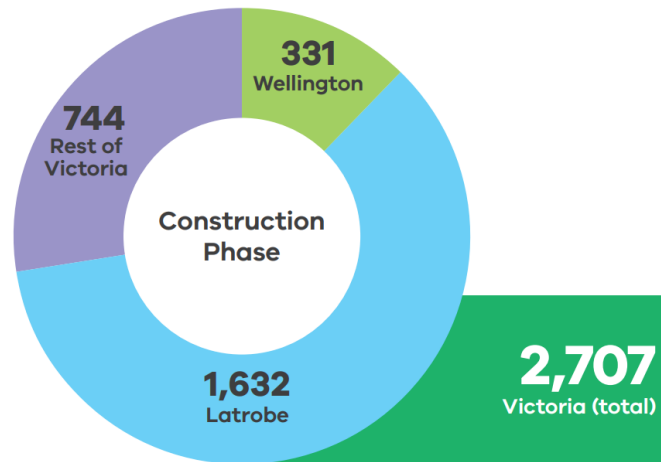
Jobs & Gross Regional Product



Boost to Gross Regional Product (GRP)



Jobs created





About the CarbonNet project

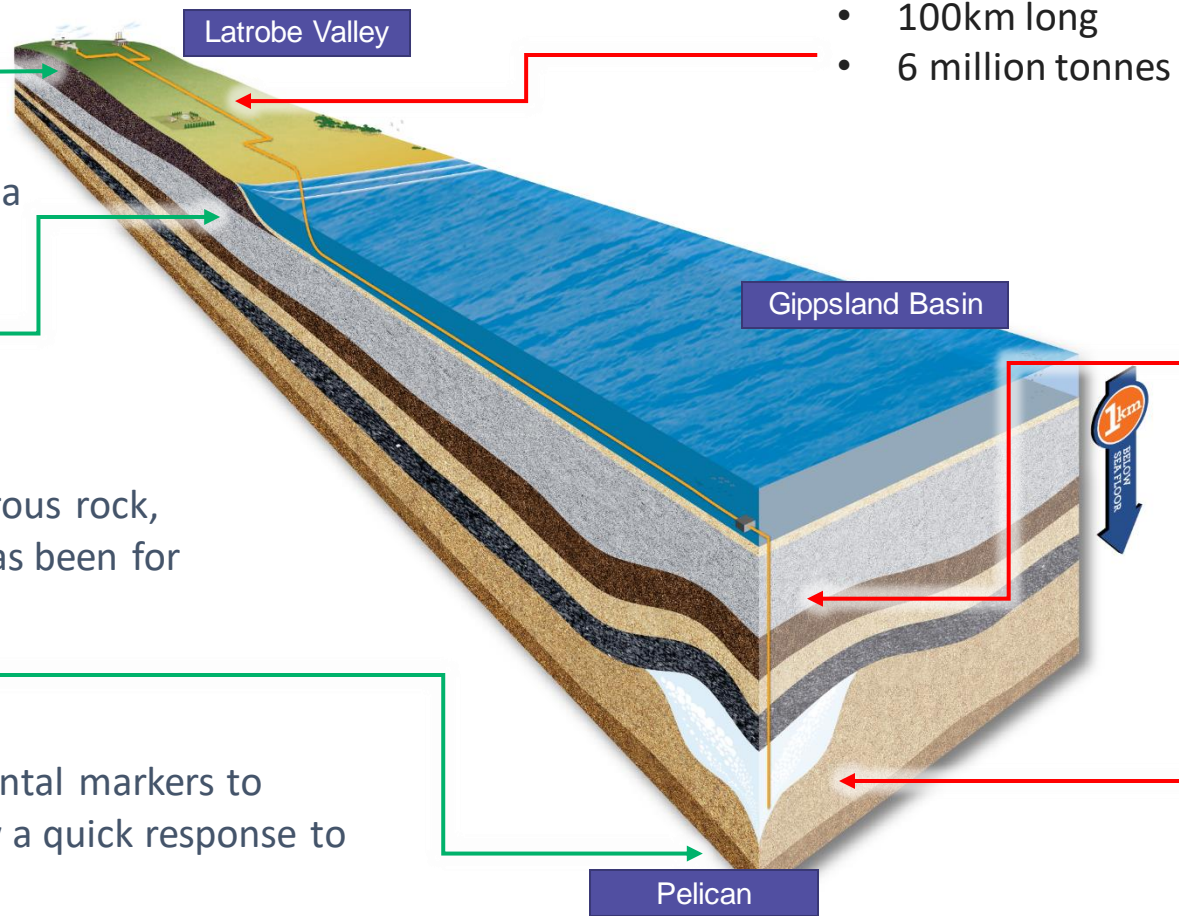
The project concept

1 CO₂ is captured at industrial facilities, compressed and delivered to an offtake point

2 The liquid CO₂ is transported along a pipeline to the Pelican geological storage site

3 The CO₂ is stored permanently in porous rock, just like oil and gas (including CO₂) has been for millions of years

4 The site is monitored for environmental markers to confirm safe containment and allow a quick response to any non-routine situations.



CO2 Pipeline

- 100km long
- 6 million tonnes of CO₂ per year

Offshore

- 4-6 subsea injection wells
- Monitoring assets

Pelican Reservoir

- Up to 168 Million tonnes capacity

Project status



01

Engineering

- FEED complete
- Geotech works
- Assessing infrastructure requirements



02

Commercial

- Market sounding underway
- Business Case
- Delivery model



03

Permitting/Storage

- Modelling for Pelican Declaration of Storage
- Regional biostratagraphical study
- Permit commitments ongoing



04

Land/Environment

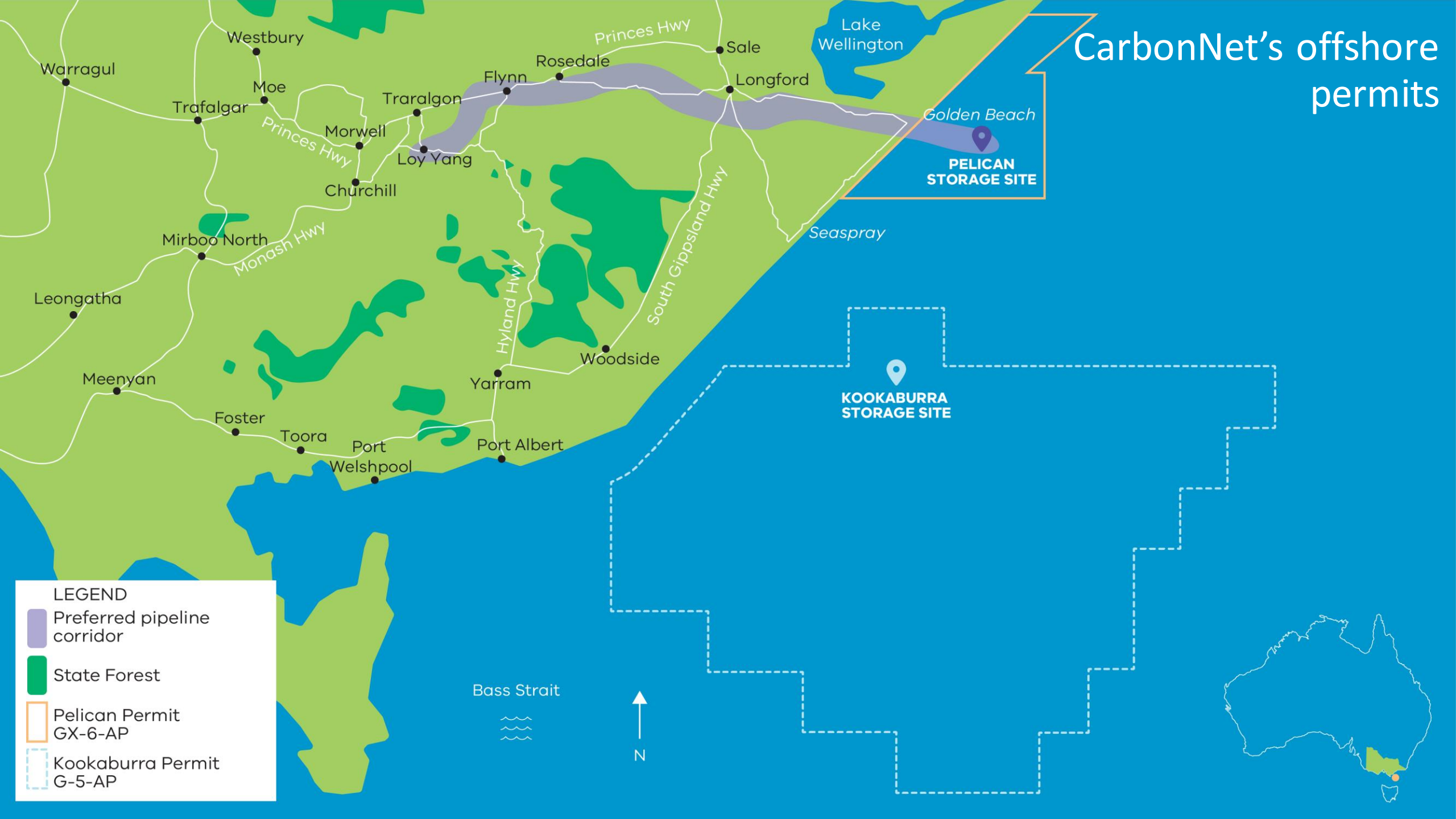
- Pipeline approval process underway
- Landholder liaison commenced
- EES & EIS referrals



Stakeholder and Community Engagement

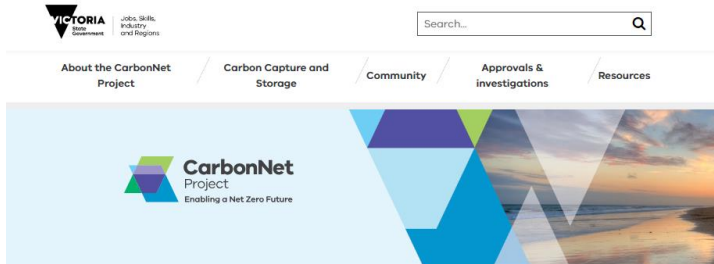


CarbonNet's offshore permits



Keep up to date:

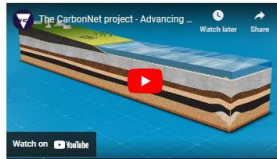
www.vic.gov.au/CarbonNet



The CarbonNet Project is working towards establishing a commercial scale Carbon Capture and Storage (CCS) hub in Gippsland, Victoria.

CCS is being investigated in Victoria, and implemented around the world, because it is recognised as having an important role in reducing greenhouse gas emissions from industry.

CarbonNet plans to build a 100km CO₂ pipeline from the Latrobe Valley to the Gippsland Basin, enabling new decarbonised industries to contribute to Victoria's 2035 interim emissions reduction target and a net zero emissions outcome by 2045.



[View transcript](#)



About CarbonNet

A Carbon Capture and Storage (CCS) project which will decarbonise industry in Gippsland.



What is CCS?

Carbon Capture and Storage (CCS) is one of the many solutions to achieving net-zero CO₂ emissions.



Why Gippsland

Gippsland is a world leading location for CO₂ storage.



Community consultation

Have your say and learn about upcoming events.



Approvals and investigations

CarbonNet's program of investigations and environmental approvals.



Carbon Capture and Storage FAQs

Discover answers to frequently asked questions.



October 2023

In this edition

- CarbonNet project update
- Building Australia's carbon removal industry
- CarbonNet at the Gippsland New Energy Conference
- Gipps Youth New Energy Summit
- Committee for Gippsland launch Hydrogen Roadmap
- New CO2CRC Essentials Course
- CCS news from around the world
- Upcoming industry events

CarbonNet Project update

On 25 August the Victorian Pipeline Regulator (within the Department of Energy, Environment and Climate Action) approved CarbonNet's Pipeline Consultation Plan (PCP). The approval of the PCP allowed for landholder liaison to commence across the proposed 80km onshore pipeline corridor in Gippsland. The CarbonNet team is currently working to individually contact all potentially impacted landholders to seek access to their land, initially to conduct Spring and Summer surveys. The proposed CarbonNet pipeline route is not final and will be informed by landholder and community engagement, front end engineering design and survey outcomes.

[View CarbonNet's Pipeline Consultation Plan](#)

Building Australia's carbon removal industry

Jane Burton and Victoria Mendes Da Costa from the CarbonNet project presented at the recent Atmospheric Carbon Removal Summit hosted by the University of Technology, Sydney. The summit was well attended by national and international representatives seeking to meet global emissions targets through removing CO₂ from the atmosphere via multiple methods. Topics included CO₂ sequestration, Direct Air Capture, Carbon Mineralisation, and the role of the ocean, rocks and agriculture in decarbonisation.

Roger Amos, Senior Advisor for CO₂ Removal at the Office of the Under Secretary for Energy and Innovation at the US Dept of Energy, was the summit's keynote speaker. He provided an excellent insight into US strategy and government support for CO₂ removal technologies and the need to progress the sector in Australia. Speakers and attendees emphasised that all CO₂ removal methods are needed immediately, alongside emissions reduction. The geological storage of CO₂ at scale was acknowledged as critical to reduce CO₂ from the atmosphere.



CarbonNet's Jane Burton speaks on a panel at the summit. Image courtesy of the Atmospheric Carbon Removal Summit.

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