



The CarbonNet Project: A solution for carbon removal

Japan CCS Forum November 15 2023

Jane Burton Project Director, The CarbonNet Project

CarbonNet is a government funded project

- Established in 2009, CarbonNet is funded by the Commonwealth and Victorian State governments
- The project's Final Investment Decision is scheduled for 2024.





Australian Government

Department of Climate Change, Energy, the Environment and Water



Jobs, Skills, Industry and Regions

2

Victoria's emissions reduction target

'To achieve net zero emissions by 2045'

CCUS is required in all major global and Australian carbon abatement modelling scenarios^{*}, even when renewable energy provides 100% of our power needs.

*International Energy Agency (IEA), International Renewable Energy Agency (IRENA), Intergovernmental Panel on Climate Change (IPCC), CSIRO, and NetZero Australia Report – Princeton, UoM, UoQ, Nous

We are a CO2 transport and storage project



100km

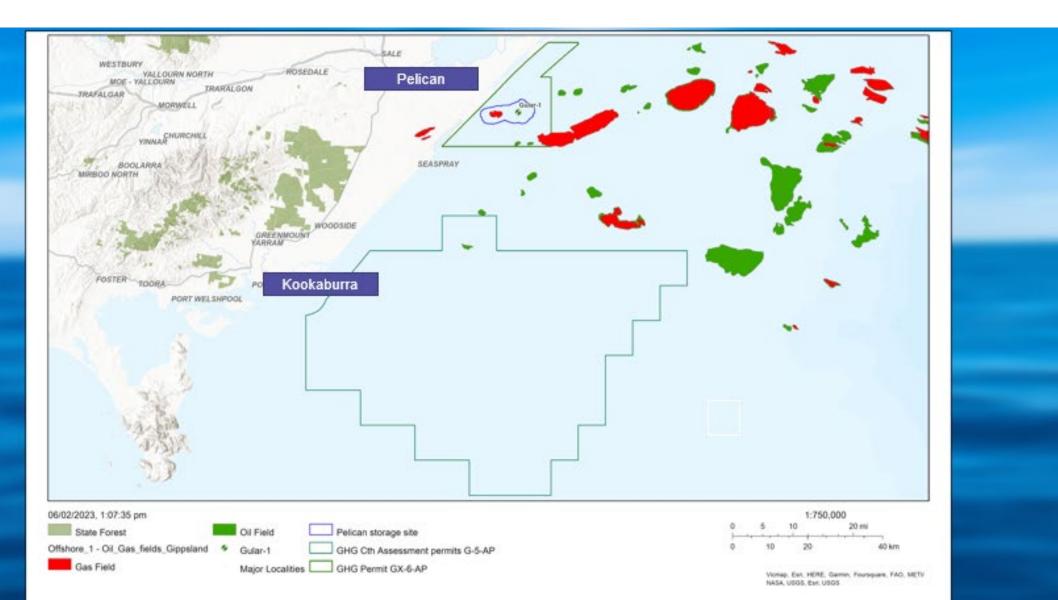
Underground pipeline

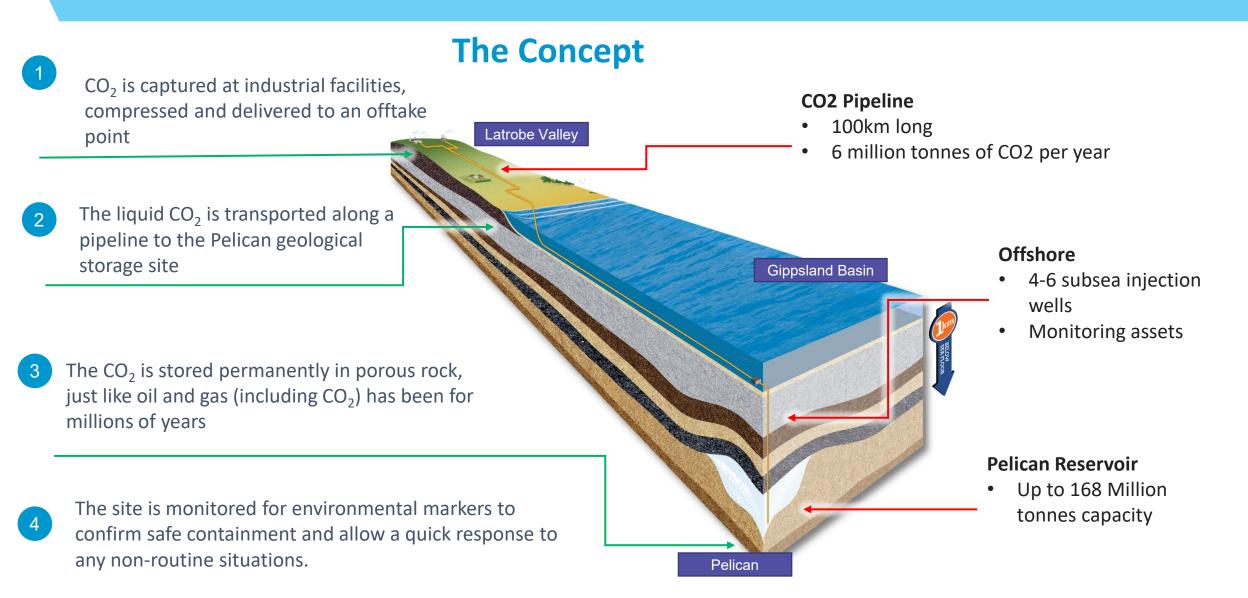
80km Onshore

and the second second

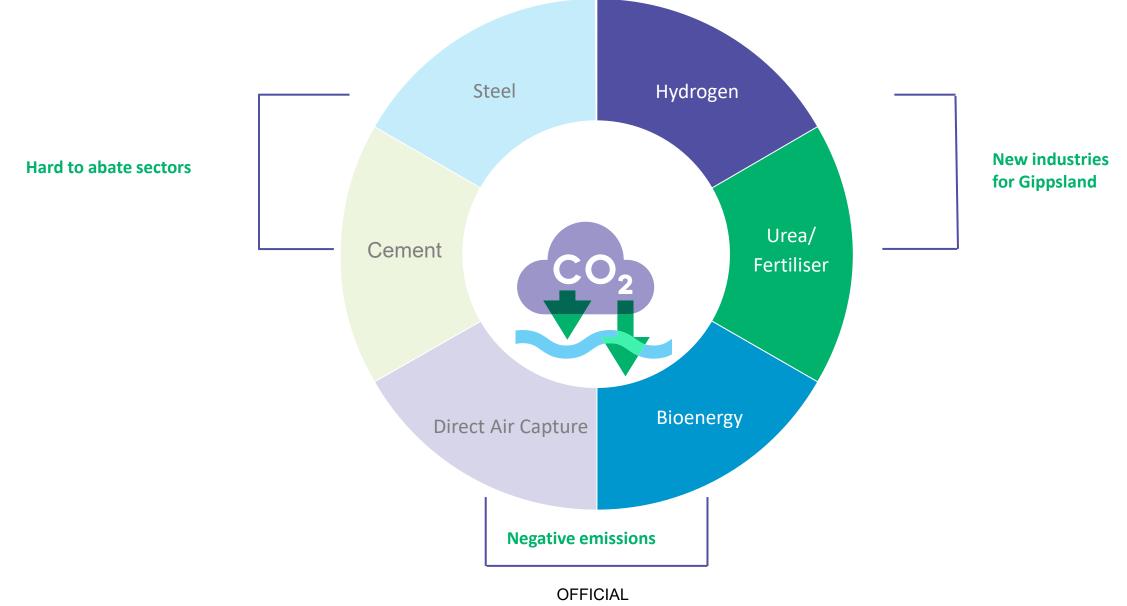
20km Offshore

We have two permitted sites in the Gippsland Basin





Where will the CO2 come from?



Significant due diligence has been completed

"The Pelican site presents considerable positive indicators that it is a CO2 storage site of significant potential to achieve stable and safe storage of 150mt-CO2 with 5mtpa+ CO2 sequestration for 30

years" AKER Solutions Report for HESC/Sumitomo, 2021

Modelling the Pelican site

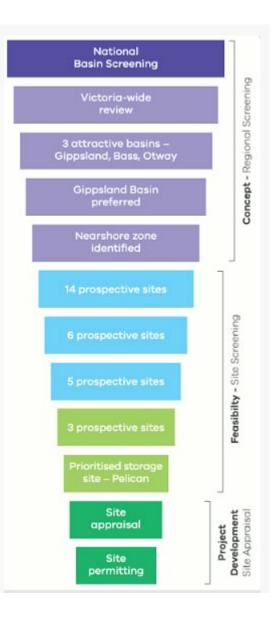
Modelling of the Pelican site was independently reviewed by:

- Geoscience Australia
- The British Geological Survey
- CSIRO
- The Geological Survey of Victoria

Modelling was also externally certified by world-leading CCS experts from <u>Det Norske Veritas</u>.

Completed investigations include

- 2017-2019 GippNet study (Uni of Melb, CO2CRC)
- 2018 Marine Seismic Survey
- 2019 Geophysical Survey
- 2019 Geotechnical Survey
- 2019/20 Offshore Appraisal Well
- 2020-22 Extensive core sample analysis at world-class labs
- 2023 CSIRO review



Front End Engineering Design (FEED)

Completion early 2024

FEED will provide CarbonNet with:

- Cost estimate
- Materials and construction timeline
- Single option and multiple sub options
- Size of equipment (e.g. diameter of pipeline)
- Process & instrument diagrams
- Readying the project to procure long lead equipment



Regulatory Overview





Pipeline Consultation Plan approved by the Pipeline Regulator

- Landowner liaison underway to achieve Land Access Agreements for survey work
- Collaborating with other projects in the region
- Onshore and Offshore Pipeline approvals (Commonwealth & State)

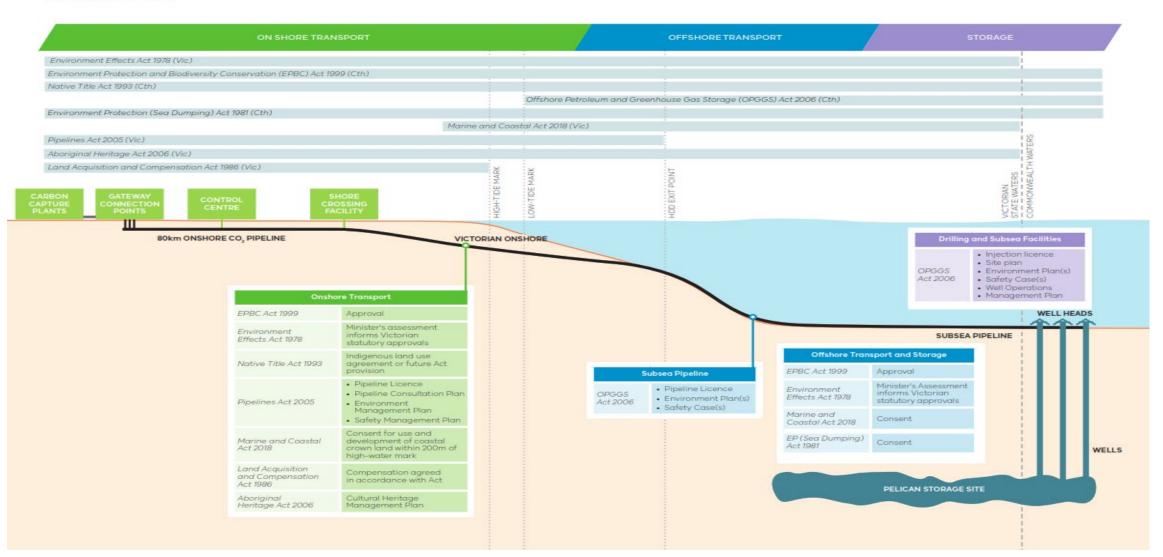
Various other approvals are required, which include

- Environment Effects Statement (State)
- Environmental Impact Statement (Commonwealth)
- Declaration of Storage (Commonwealth)
- Injection Licence (Commonwealth)
- Sea Dumping Permit (Commonwealth)
- Approvals expected to be complete in 2026, pending regulator timeframes.



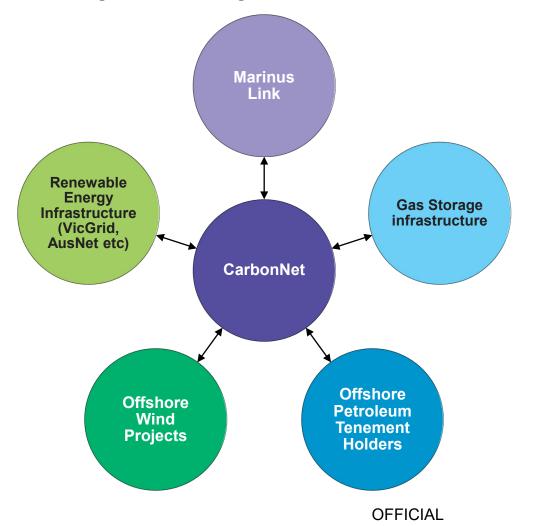
Regulatory process

KEY PRIMARY APPROVALS



Collaboration and Coexistence

Working towards a collegiate coexistence with other sectors and building confidence across community aimed at reducing consultation fatigue



Community engagement





A huge 150-metre-tall rig off the Victorian coast is drilling for rock to help combat climate change. The CarbonNet Project is exploring whether emissions could be commercially stored inside sandstone buried deep on the ocean floor. | @SimoLove @JaclynSymes @VicGovDJPR













Community Engagement activities

Engagement	Audience	Purpose
CN Community Reference Group	Gippsland Community Members	Create community conduit, test communication
Online community information sessions	Community and stakeholders	Raise awareness and knowledge of CCS, Hydrogen and CarbonNet
In person information sessions at Golden Beach	Shoreline community	Provide updates and answer questions regarding project & offshore activities
School program	High school students	Provide balanced information on CCS and an emissions reduction technologies
Science Week events	Community and school kids	Raise awareness and knowledge of CCS and CarbonNet
Reports, papers and presentations	Business, industry & academia	Share knowledge about the project

CarbonNet and Japan

MoUs signed with:

- JOGMEC
- JCOAL
- JCCSCo



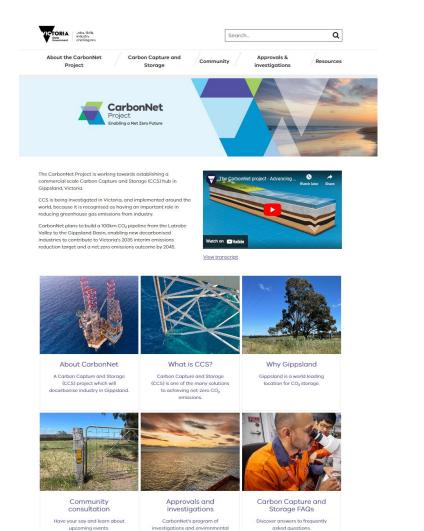
CarbonNet has a long and established relationship with Japanese organisations

- JOGMEC have provided financial support toward CarbonNet's Front End Engineering Design (FEED)
- Long standing and deep relationship with HESC
- CarbonNet and JOGMEC continue to deliver joint investment seminars in Japan
- Participation by CarbonNet in Japan Clean Coal Day activities





Keep up to date: www.vic.gov.au/CarbonNet



approvals.



In this edition

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

CarbonNet Project update

On 25 August the Vication Phasine Regulator (within the Department of Energy, Environment and Climata Action) approved Carbonhets Pipeline Consultation Pipel (PCP). The approved of the PCP allowed for landholder liaison to commence across the proposed Billing manuface pipeline contrain in Bippeland. The Carbonhet beam is currently working to individually context all patertially impaction allowidows to across the time (and (allow)) and and a Summer surveys. The proposed Carbonhet pipeline route is not that and will be informed by landholder and community outgements. That not end projecting fastigs and survey outcomes.

View CarbonNet's Pipeline Consultation Plan.

Building Australia's carbon removal industry

Jane Burkon and Victoria Mendes Da Coste hom the Cathenhel project presented at the secant Amonghetic Cathen Remord Summit holds by the University of Tabhridogs, Seyney, The summit new will attended by national and international representatives seeing to meet global anisations targets through renving (C2) them the atmosphere via multicle methods. Tspics included CC2 sequestration, Dired Air Capture, Cathon Mineralisation, and the role of the ocean, noids and agriculture in disautomation.

Rager Annes, Senior Ankiero for CCI2 Removal at the Diffice of the Under Sacratary to Energy and Ennosition at the US Boat of Energy, mast the summits signales. The provided and excellent insight into US strategy and government support for CCI2 removal technologies and the need to progress the stachor in Austritis. Dispeties and attributes emphasized that at CCI2 removal methods are needed immediately, alongistic entraisons returnations. The geldograf stranger of CCI2 attal entraines and schemes and schemes of the attributes of



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

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