



CarbonNet
Project
Enabling a Net Zero Future

The CarbonNet Project – The Next Phase

3rd CCUS & Hydrogen International Symposium, 26 August 2022

Ricky McNally, CarbonNet Project Director



Australian Government
Department of Industry, Science,
Energy and Resources



Jobs,
Precincts
and Regions

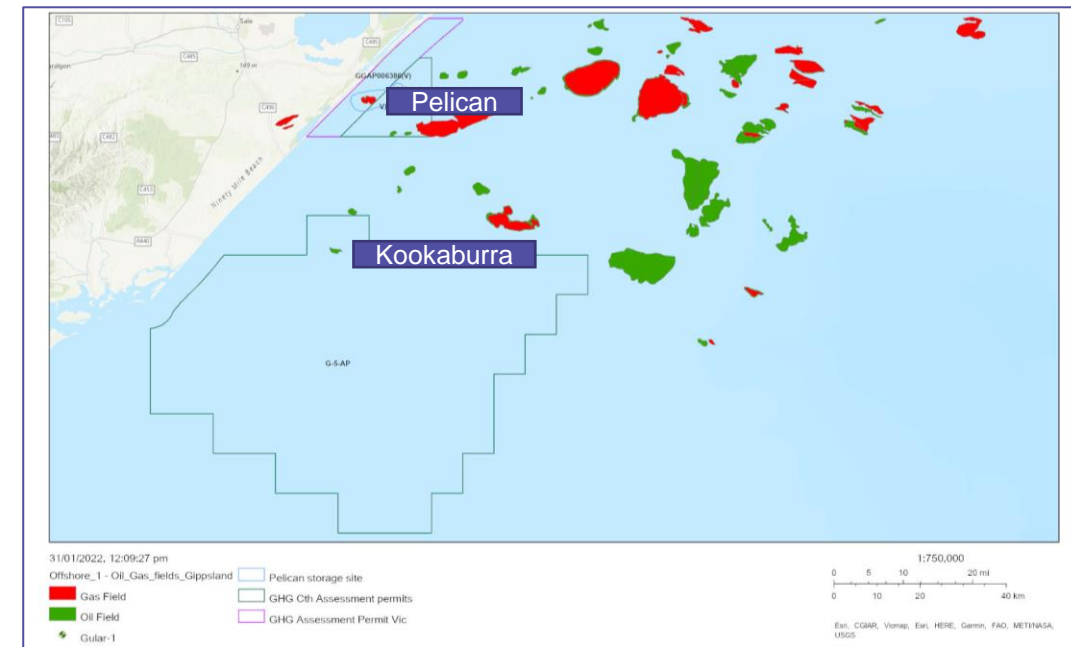
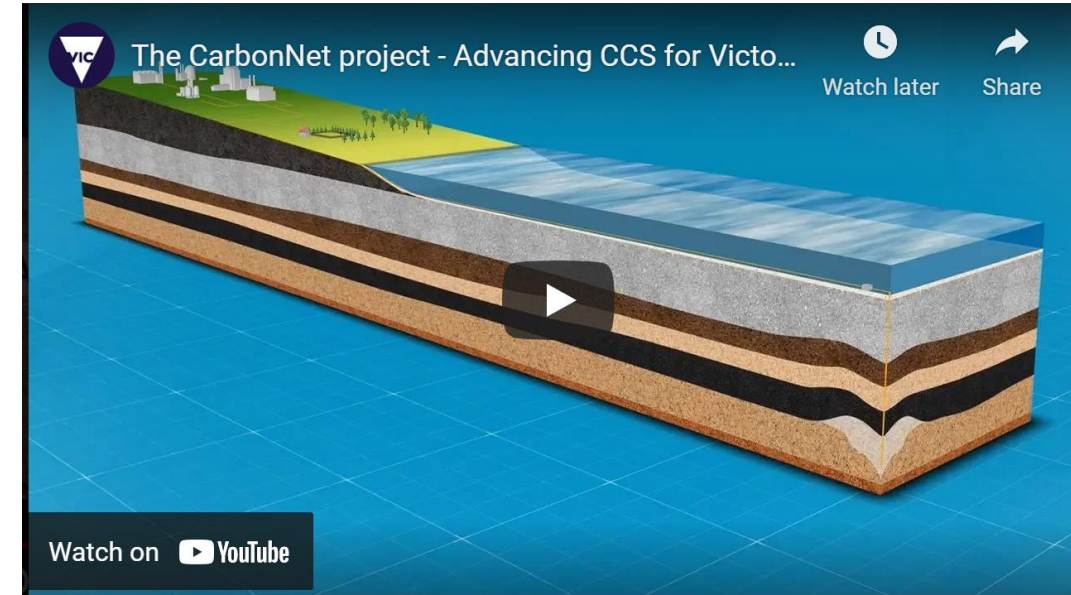


Why Gippsland

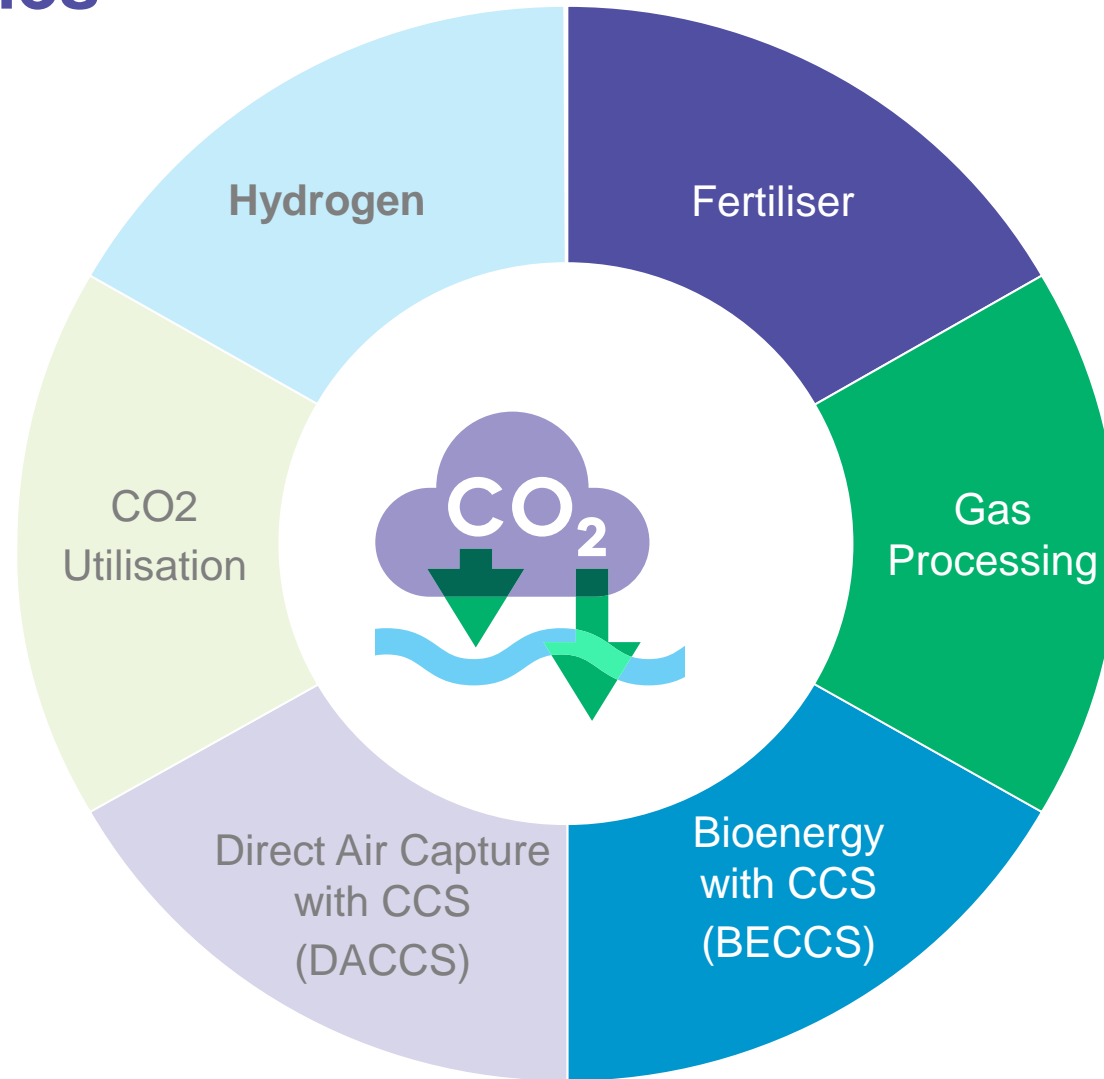
- World class petroleum basin
- Geological storage site selection independently certified
- Fifty years of data from oil and gas industry
- Proximity to industrial hubs
- Highly skilled workforce and local Transition Plan

CarbonNet represents a significant opportunity for the region:

- CCS network enabling new industry- hard to abate sectors
- short-term economic boost during construction
- long-term job opportunities
- activate and support both existing and emerging industries

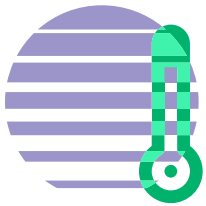


Enabled industries



CCS/CarbonNet Benefits

The project has the potential to serve as a cornerstone on which the Gippsland region's existing assets and natural advantages can be leveraged.



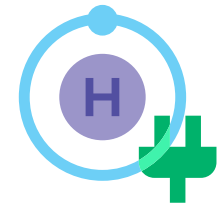
EMISSIONS REDUCTION

- **5MT/yr** CO₂ stored, **capacity of Pelican site 125MT**
- Second site, Kookaburra is of slightly larger size
- Potential for increased storage capacity
- Supports Governments' net zero by 2050 emissions target



JOBS

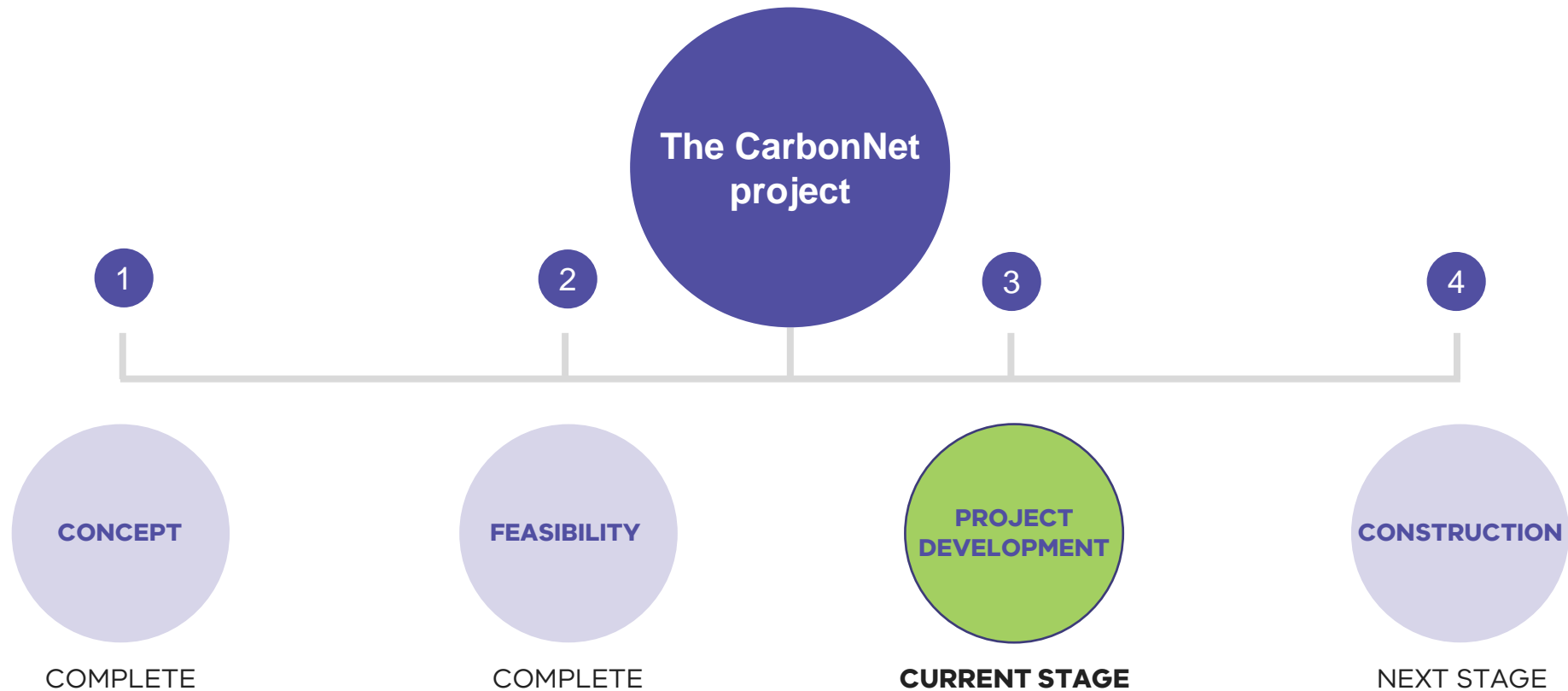
- Activate and support both existing and emerging industries
- Construction: **2,707 jobs/yr (2026-30)**
- Operations: **1,176 jobs/yr (2030-60)**
- New industries utilise existing skills
- Education and training creating sustainable growth for Gippsland



HYDROGEN

- CarbonNet is positioned to support emerging Hydrogen industry through transport and storage of CO₂.
- CCS is a key component of Gippsland's emerging hydrogen industry
- Gippsland is one of nine NERA **hydrogen clusters** and one of seven proposed **hydrogen hubs** nationally.

The CarbonNet project is currently in Stage 3 – Project Development and Commercial Establishment



CarbonNet Stage 3: Project Development & Commercialisation

Transportation & Storage network development

- Development of a transportation pipeline network
- Multiple offshore storage sites under investigation
- Initial site Pelican, secondary site is Kookaburra which is of similar scale, providing two world class sites

Commercial Establishment

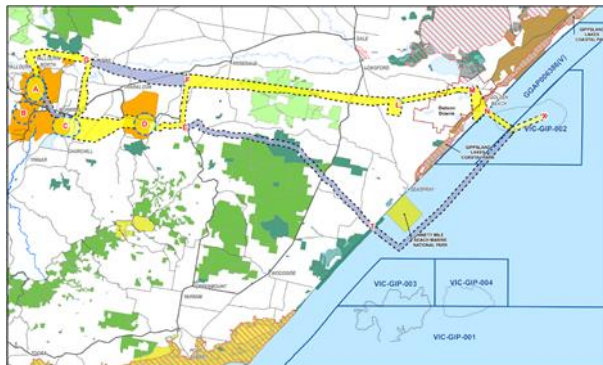
- Engaging with industry on what a commercial scale project requires and enables
- Commercial modelling and regulatory pathways
- Developing a vision for a low emissions hub, taking lessons and achievements of global hub-style projects

Appraisal activities

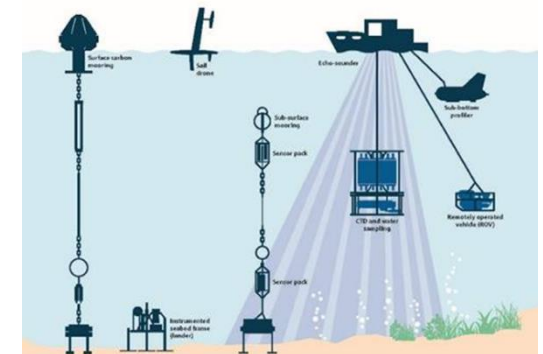
- Marine Seismic Survey – Completed Feb 2018
- Appraisal Well Operations – Completed Jan 2020
- Gippsland Monitoring Network (GipNet) R&D – Completed May 2020
- CO2CRC Otway Stage 3 – Well based monitoring - ongoing

Governance, Compliance & Engagement

- Assess suitability of existing regulations and work with
- Compliance with NOPTA and NOPSEMA regulations
- Extensive public engagement and collaboration with industry and research groups



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Operational activities complete

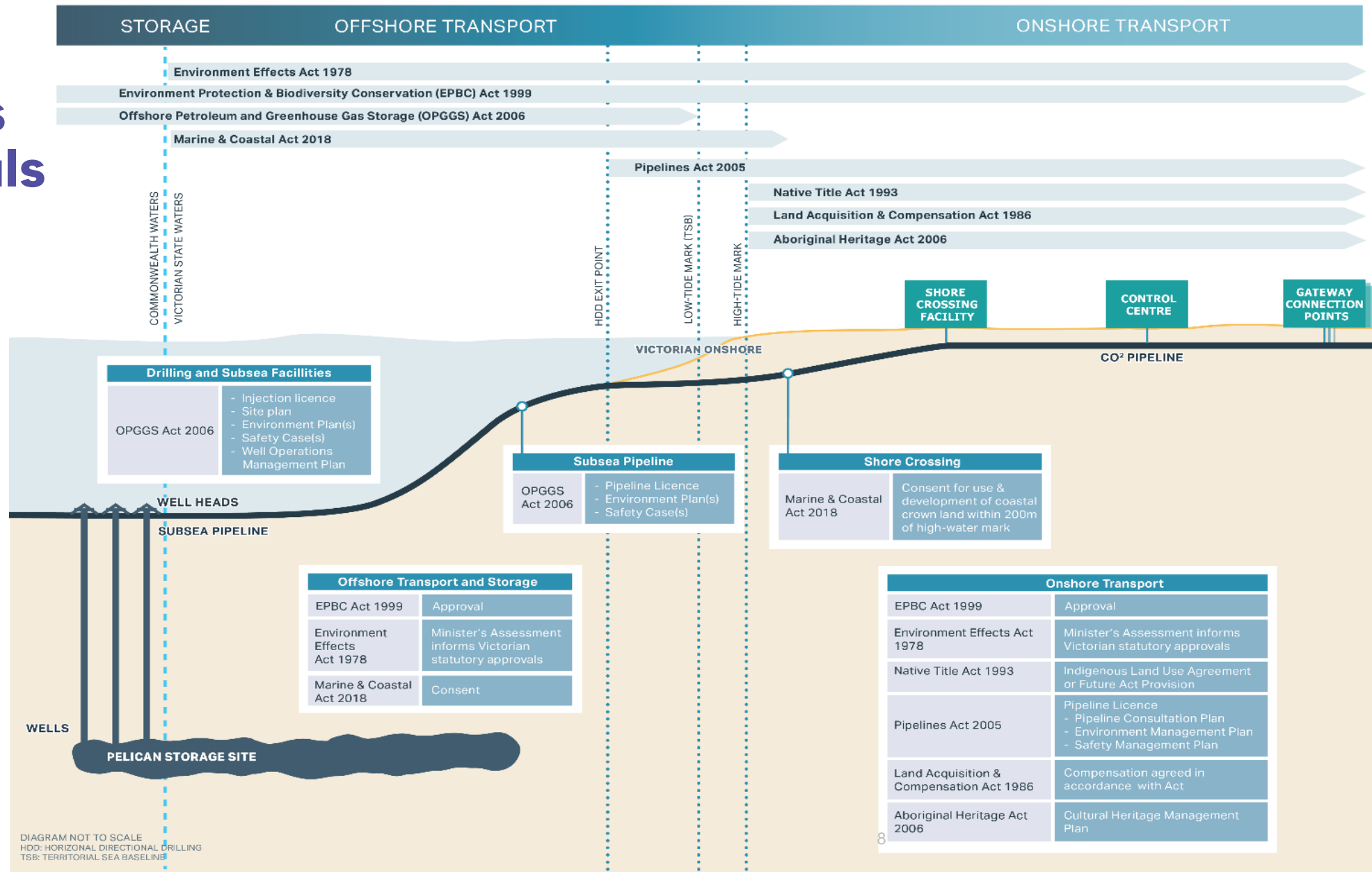
Extensive field activities conducted to inform the project's technical design, environmental baseline and provide confidence to industry that the project is technically and commercially viable, including:

Gular-1 drilled Dec 2019/Jan 2020 - Australia's first offshore Greenhouse Gas appraisal well

- Drilled 8km offshore at the Pelican site
- High quality geological dataset retrieved, confirming presence of seals and reservoir pairs
- Well plugged and abandoned at end of operations.



Overview of CarbonNet's key approvals



2022 CarbonNet Activities

Regulatory

- Pipeline route and landowner activities underway
- State Environmental Effects Statement (EES) and Commonwealth Environmental Impact Statement (EIS) referrals being prepared
- Declaration of Storage application being prepared

Operations

- Preparation for the Front End Engineering Design (FEED)
- Further refinement of pipeline alignment/corridor underway based on engineering, environmental and social/landowner outcomes and feedback

Resourcing scale-up



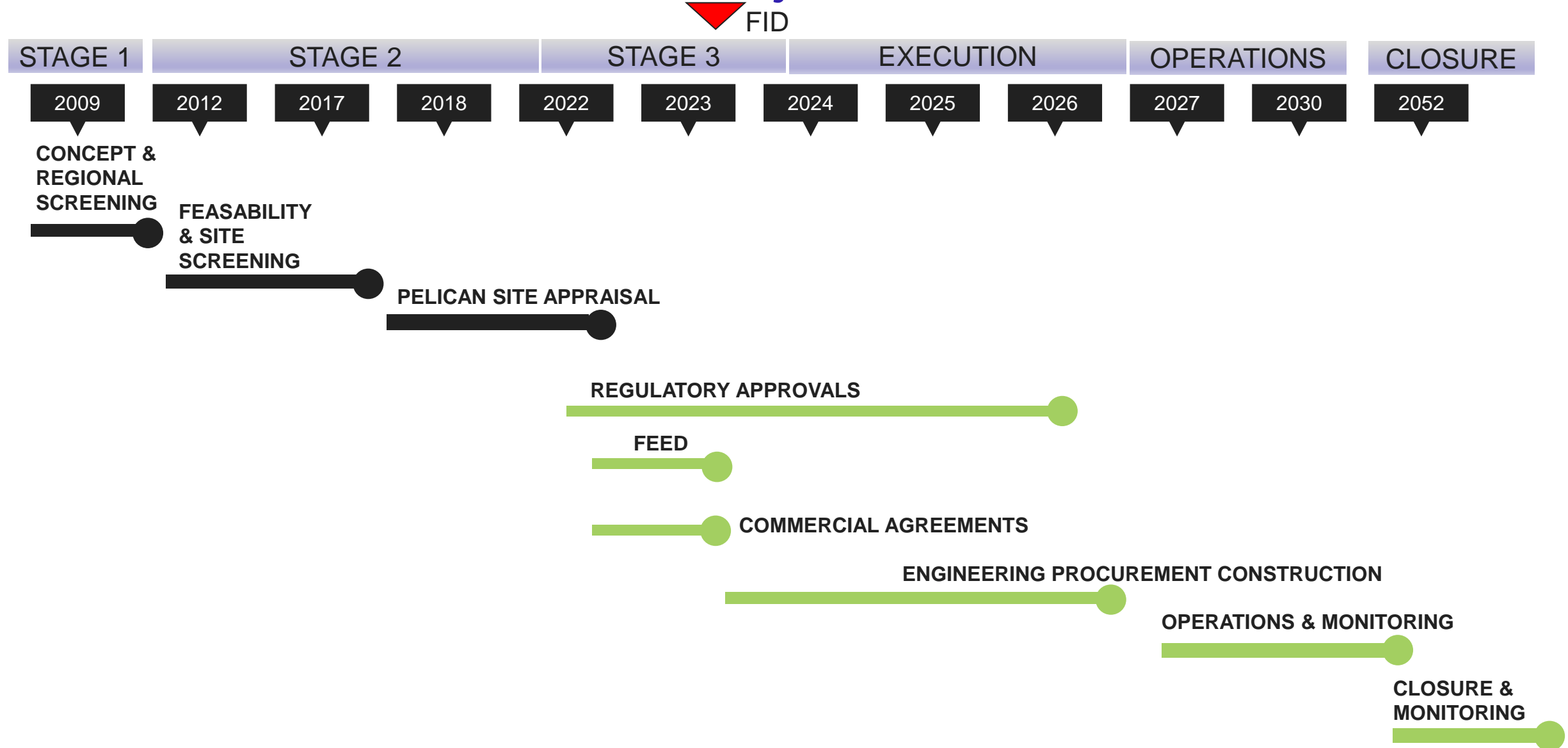
2022 CarbonNet Activities: Stakeholder Engagement

Continue to build public acceptance and grow CarbonNet's presence in the Gippsland region and more broadly.

- Pipeline & EES consultation plan drafted.
- Preliminary landowner engagement commenced to introduce/advise on the project and seek land access.
- Market Research planned for 2022/23 to understand community awareness and sentiment toward CCS and CarbonNet across Victoria (further to a 2019 study).
- Engagement with GLaWAC - Traditional Owner Engagement Strategy underway.
- Presence at Gippsland New Energy Conference
- Science Week 2022 event at Gippsland Tech School
- School CCS/Climate Change module Phase 1 successfully implemented.
- Community Reference Group (chaired by Lead Scientist, Amanda Caples)
- APPEA - May 2022



CarbonNet Project Timeline



Any questions?

Find out more and subscribe to the CarbonNet e-Newsletter online:

<https://earthresources.vic.gov.au/projects/carbonnet-project>