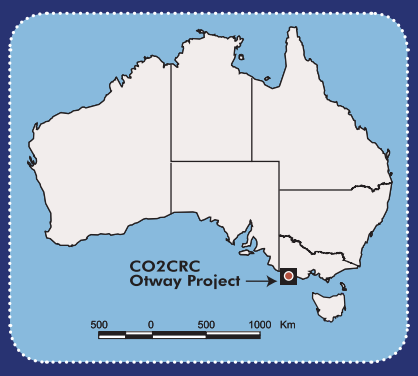
# CO2CRC Otway Project - Australia's first demonstration of geosequestration

## Location & site selection




Why this site?

- A source of carbon dioxide
- Oil and gas tenements available
- Large amount of exploration and production data
- Existing infrastructure
- Gas had demonstrably been trapped for a long time
- Adequate storage capacity and favourable geology

## Objectives

The Otway Project aims to demonstrate that carbon capture and storage (CCS) is technically and environmentally safe and meets the expectations of government and the community.

Research: Characterise the $CO_2$ storage site, assess the risks, and develop, test and deploy appropriate M&V technologies

Regulation: Provide science-based information to develop regulatory framework for CCS

Education and training: Create opportunities to educate and train people in CCS-related activities

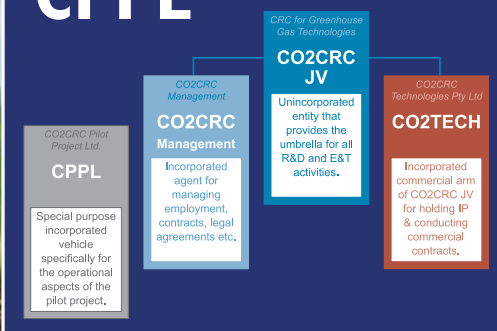
Collaboration: Provide a broader platform for collaboration at national and international levels

Community consultation: Communicate effectively with the community and stakeholders about the nature, progress and outcomes of the project.

## Regulation

The Otway Project has been granted all regulatory approvals to produce, transport, inject and permanently store $CO_2$ in a depleted gas field. Environmental, health and safety requirements have been defined using a combination of existing legislations.

## CPPL




The Otway Project is operated by CO2CRC Pilot Project Limited (CPPL) — a world-first operating company created for the purpose of injecting $CO_2$ underground. CO2CRC developed the Otway Project and oversees an extensive program of research.

## What happens at the site?

### Buttress -1 Site: Production

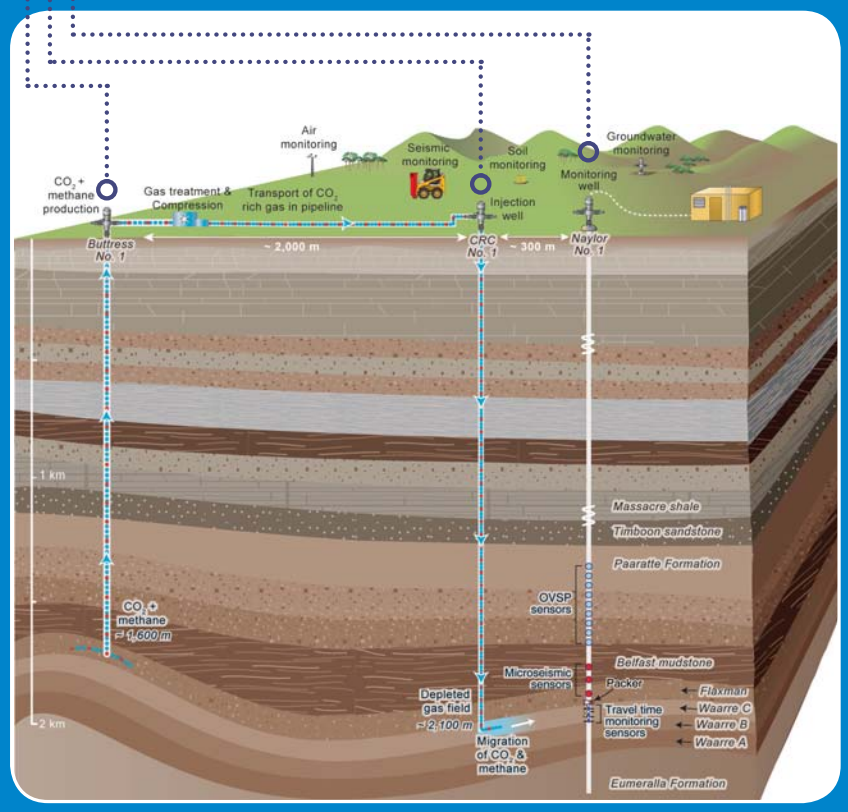
$CO_2$-rich gas (80% $CO_2$; 20% methane) is extracted from an existing well, processed and compressed. $CO_2$ is transported via a new, underground, 2.25 km long, stainless steel pipeline

### CRC-1 Site: Injection

Over two years, up to 100,000 tonnes of the $CO_2$-rich gas stream at supercritical state will be injected into a depleted gas reservoir – the Waarre C Formation - at a depth of 2050 metres. $CO_2$ will migrate up-dip within the 31m thick reservoir sandstone capped by the impervious thick seal rock (the Belfast Mudstone)

### Naylor-1 Site: Monitoring

$CO_2$ will be detected 6-9 months after the start of injection at the Naylor-1 site. Monitoring will also be carried out in the atmospheric, surface and near surface domains.




## Funding

The A$40M CO2CRC Otway Project funding is provided by:

- The Australian Federal Government through the Australian Greenhouse Office and AusIndustry;
- The Victorian Government;
- The CRC program;
- CPPL industry partners;
- CO2CRC members; and
- US Department of Energy.

The contributions of Canada, Korea and New Zealand are also acknowledged.

CO2CRC