

fact sheet

# gorgon carbon capture and storage



## understanding carbon capture and storage

CCS is a proven technology for reducing greenhouse gas emissions. CCS takes naturally occurring carbon dioxide from industrial processes and permanently stores it in geological formations deep underground.

As the International Energy Agency stated in its report, CCUS in Clean Energy Transitions, reaching net zero will be virtually impossible without CCUS.

## gorgon CCS

The Gorgon CCS system commenced operation in August 2019. Naturally occurring carbon dioxide is taken from offshore gas reservoirs and injected into a giant sandstone formation two kilometres under Barrow Island, where it remains permanently stored.

the gorgon CCS system prevents millions of tonnes of  
greenhouse gases being vented into the atmosphere



More than **11 million**  
tonnes of CO<sub>2</sub> injected  
to date<sup>1</sup>



More than **100 million**  
tonnes of CO<sub>2</sub> expected to  
be mitigated over the life  
of the CCS system

<sup>1</sup>from CCS system startup in August 2019 to May 2025

## optimisation works at gorgon CCS

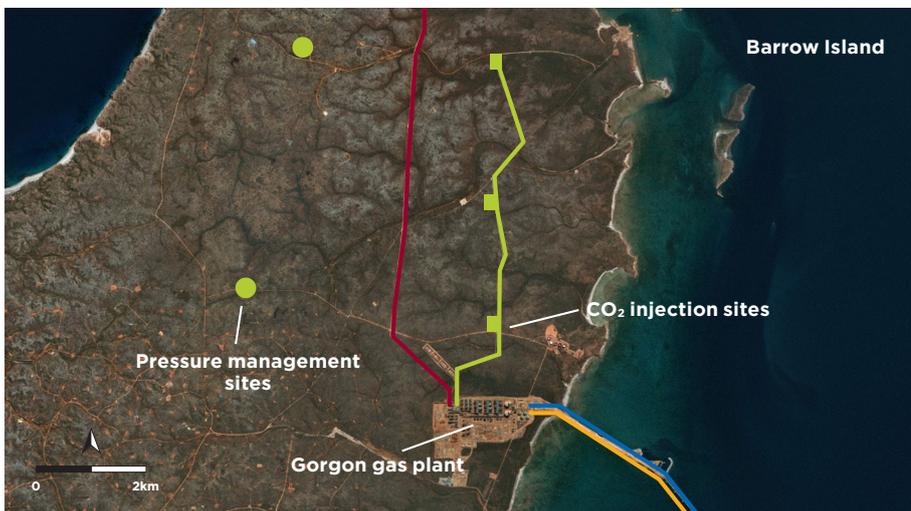
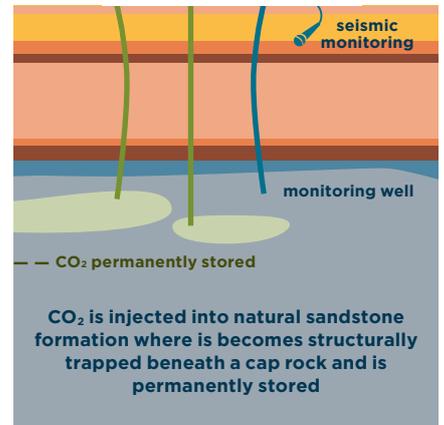
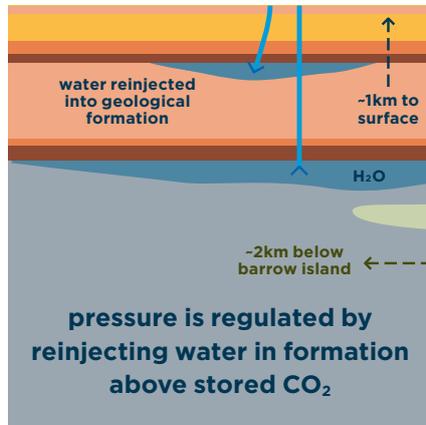
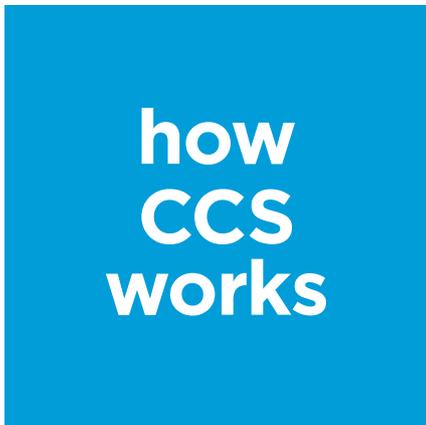
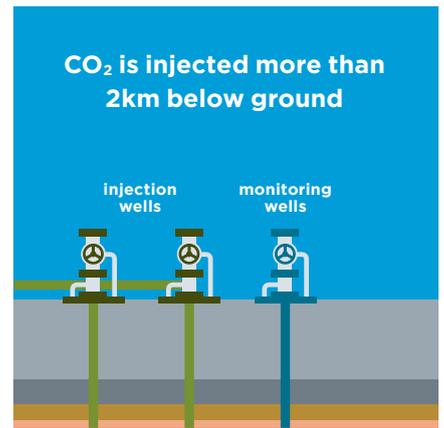
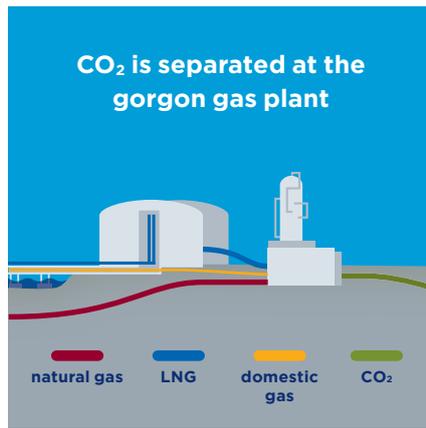
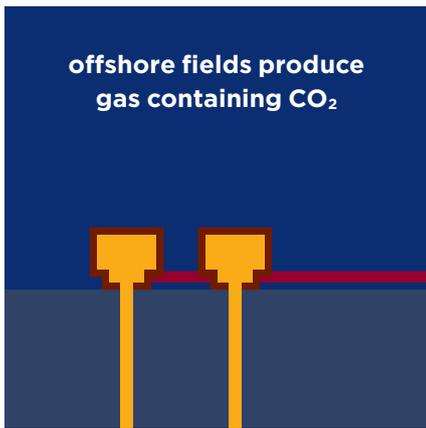
Chevron Australia is committed to increasing carbon dioxide injection rates at Gorgon CCS in accordance with its environmental approvals.

A project has commenced that aims to expand the system's capacity to manage water found within the reservoir where carbon dioxide is stored, thereby reducing reservoir pressure and enabling increased carbon dioxide injection rates.

The project consists of optimising existing infrastructure through the:

- modification of four existing water producing wells to expand reservoir water extraction capability,
- installation of new surface infrastructure to enhance water processing,
- modification of two existing water injection wells to increase the volume and flow rate of water that can be processed, and
- drilling of two new water injection wells to increase the total volume of water that can be processed.

In addition to this project, Chevron Australia continues to explore options to further increase carbon dioxide injection rates within the system.



The Australian Government has committed \$60 million to the Gorgon Carbon Dioxide Injection Project as part of the Low Emissions Technology Demonstration Fund (LETDF).

## Gorgon Project

Operated by Chevron Australia in joint venture with



Osaka Gas | MidOcean Energy | JERA

The Chevron-operated Gorgon Project is a joint venture between the Australian subsidiaries of Chevron (47.3 per cent), ExxonMobil (25 percent), Shell (25 percent), Osaka Gas (1.25 percent), MidOcean Energy (1 percent) and JERA (0.417 percent).