

Australia leads the world with low emission fuel R&D

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The Victorian Government is continuing to back research and development that harnesses the state's valuable resources to generate new industries and local jobs in a low emissions environment.

Minister for Resources, Jaclyn Symes, has announced further funding of \$600,000 for Australian Carbon Innovation to continue its work in developing high-value, low emission products using the Latrobe Valley's significant brown-coal resource.

Australian Carbon Innovation can now maintain its operations and seek additional partnership opportunities to further research and develop new high-value products from brown coal including hydrogen, carbon fibres, graphenes and fertilisers.

The Government's Statement on Future Uses of Brown Coal sets the parameters around the use of coal to ensure only low-emission product development can take place.

Australian Carbon Innovation has a track record of achievement in furthering low-emissions opportunities for Victoria's brown coal resources, including its work with Federation University to deliver a feasibility study for the establishment of the Regional Carbon Innovation Centre in Gippsland.

The production of clean hydrogen from brown coal in the Latrobe Valley is a significant opportunity for creating jobs and boosting the state's low emission fuel capability.

Victoria currently has the largest hydrogen demonstration project in the world – the Hydrogen Energy Supply Chain pilot project – underway to support fuel cell vehicle development and power generation in Japan.

Underpinning commercial hydrogen production in the Latrobe Valley is the CarbonNet project, with work underway to assess how the seabed off the coast of Gippsland could store carbon dioxide (CO₂).

CarbonNet's key storage site has the potential to store the equivalent CO₂ emissions from one million cars annually for 25 years.

Carbon capture and storage is a proven process with over 20 sites around the world successfully operating at a commercial scale. In Victoria, CO₂ has been successfully stored for a decade at the Otway CO₂CRC test facility.

Earlier in May the Federal Parliament passed a bill supporting the development of CarbonNet by clarifying the governance of the geological resources where CO₂ can be stored across state and Commonwealth waters.

"It's important to back innovation in the pursuit of new jobs and industries – I know the Gippsland Regional Partnership has flagged that Latrobe Valley locals want to see investment in new technologies," said Symes.

"The work of Australian Carbon Innovation and CarbonNet is vital in placing Victoria at the forefront of global low-emission technology development," she said.

Source: <https://www.primemovermag.com.au/news/article/australia-leads-the-world-with-low-emission-fuel-rd>