



January 21, 2022

Dawn of Australia's Hydrogen Industry

Today's arrival of the world's first liquefied hydrogen carrier, the Suiso Frontier, in Victoria marks the success of the Hydrogen Energy Supply Chain (HESC) Pilot Project and the dawn of Australia's hydrogen industry.

HESC's vision is to produce carbon neutral hydrogen through extraction from a mix of Latrobe Valley coal and biomass, capturing and storing CO₂ via CarbonNet and optimising energy efficiency in the HESC supply chain.

The 225,000 tonnes of carbon neutral liquefied hydrogen (LH₂) produced by HESC in a commercial phase will contribute to reducing global CO₂ emissions by some 1.8 million tonnes per year (equivalent to the emission of about 350,000 petrol-driven cars), while providing valuable infrastructure for other hydrogen projects in the region.

In a commercial phase, the project will create 30,000 full-time jobs across the Gippsland and Mornington Peninsula regions over the life of the project.

During the Pilot Project, 99.999% pure hydrogen has been produced from Latrobe Valley coal and biomass via gasification, trucked to Hastings, cooled to -253 degrees and



The Australia-Japan HESC partnership is at the cutting edge of creating new technology, cleaner energy, and jobs for both countries.

The learnings from the Pilot will form the basis for further work towards delivering HESC at a commercial scale. Specifically, the team will undertake extensive research and development into the technical and operational requirements that delivery of a commercial-scale project will entail.

Activities that will