

This estimation has been calculated as follows: Most of the hydrogen produced today is via steam methane reforming (SMR) with no CCS. Data in Australia's National Hydrogen Strategy reports that this produces around 8.5 tonne^[4] of CO₂ per tonne of hydrogen. CSIRO data states that coal gasification with CCS produces around 0.71 tonne of CO₂ per tonne of hydrogen^[5]. Therefore, the HESC Project could save 1.8 million tonnes of CO₂ per year (8.5-.71*225,000).

Most:

4 and 5: http://www.hydrogenenergysupplychain.com/november-25th-2020-latrobe-valley-webinar-recording-and-qa/#_ftn4

Most:

<https://www.iea.org/reports/the-future-of-hydrogen>