Hydrogen for energy

CCS and hydrogen: a clean fuels opportunity

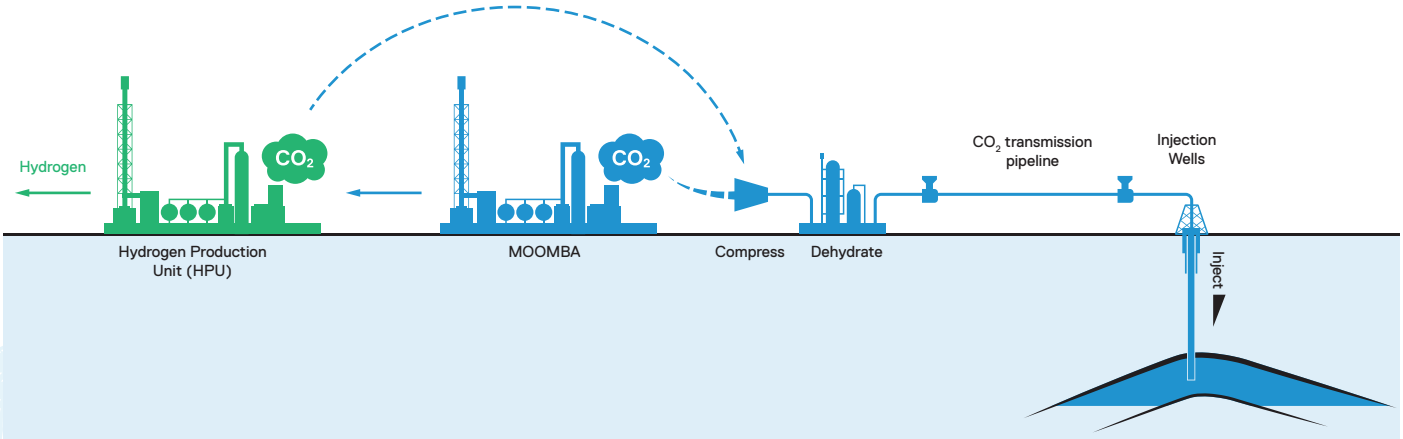
Santos' Moomba CCS project in South Australia, is expected to capture CO_2 already separated from natural gas at the Moomba Gas Plant. The CO_2 would then be compressed and dehydrated, before being injected into deep underground reservoirs. These reservoirs previously held oil and gas in place for tens of millions of years and can safely store CO_2 deep underground. Our Moomba CCS Project is one of the most globally cost competitive projects - it will be one of the largest CCS projects in the world and one of the lowest cost projects at our current estimate of around A$30 per tonne.

With the right policy settings and incentives to accelerate CCS deployment, the Cooper Basin could become a large-scale, commercial CCS hub capturing emissions from oil and gas production, new technologies such as direct air capture and enabling low-carbon hydrogen production in Australia.

CCS is the fastest and most efficient route to a hydrogen economy, decarbonising natural gas at its source and eliminating Scope 3 emissions.

The Federal and South Australian State Governments have led support for the growth of a low-carbon, innovative, safe and competitive hydrogen industry. Hydrogen, made from natural gas, presents a major opportunity for both Santos and Australia to produce a low-carbon and reliable fuel that will help Australia and the world to lower carbon emissions. Blending up to 10 percent hydrogen into the existing natural gas network could be the first step in providing lower carbon energy to Australian homes and industry. Modelling indicates that demand for hydrogen could more than double in the next decade in Australia[10].

Hydrogen production is a natural extension of what Santos already does. Natural gas combined with CCS technology supports the rapid development of the future hydrogen economy, at a more affordable price for customers. Through its existing assets and capabilities, Santos is extremely well-placed to develop low-carbon hydrogen at scale.



[10] COAG Energy Council – National Hydrogen Strategy Taskforce, ERRATUM: Australian and Global Hydrogen Demand Growth Scenario Analysis