

# Energy storage ccs complete line

What is CCS & how does it work?

CCS delivers deep emissions reductions in hard-to-decarbonize industrial sectors, such as steel, fertilizer, and cement; can decarbonize existing infrastructure and assets in power and industrial sectors; and helps the most carbon- and heat-intensive industries operate with little to no greenhouse gas emissions.

How does a CCS pipeline network work?

Brown et al. (2015) developed a steady-state flow model for a practical CCS pipeline network system in the UK. This system gathers CO<sub>2</sub> from multiple emitters and transports it to an offshore reservoir using a main trunk pipeline.

Why is the GB planning a new CCS pipeline?

For the GB, because of the lack of existing CCS infrastructure, the plan includes the construction of a new pipeline of approximately 175 km, including a terrestrial hub terminal. Fig. 1. Expected storage sites for CCS within South Korea (Ulleung Basin (UB) and Gunsan Basin (GB)).

How effective are CCS deployment schemes?

The optimal CCS deployment schemes can achieve carbon mitigation effects of 472.4-609.6 Mt at levelized costs of 187.4-193.5 Chinese Yuan t<sup>-1</sup> CO<sub>2</sub>, demonstrating cost-effectiveness under future carbon price levels.

How much does the Shell Quest CCS project cost?

According to a breakdown of the capital expenditure investment of 790.3 million CAD in the Shell Quest CCS project, the costs of the capture, transportation, and storage of CO<sub>2</sub> with a concentration of 17% in the 1 Mt a<sup>-1</sup> heavy oil hydrogen-production process are about 55%, 16%, and 5%, respectively.

Is CCS essential to achieve net-zero emissions?

At Shell, we also believe that CCS is essential to achieve net-zero emissions. Most climate scientists recognise that the world needs CCS technology if society is to achieve net zero emissions. At Shell, we also believe that CCS will be essential to achieve net-zero emissions.



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