

Aramco Jubail CCS Hub

The Jubail hub aims to capture and store 9 MtCO₂ emissions per year by 2027, a key part of Saudi Arabia's interim sequestration target of 44 MtCO₂ per year by 2035.



Facts and figures

- Location: Eastern Province, Saudi Arabia
- Potential impact by 2030: 9 MtCO₂/year
- Hub developer: Joint venture with Aramco, Linde and SLB
- CO₂ sources: natural gas processing and other industrial sources
- Transport: pipeline
- Storage site: onshore, saline
- Status: pre-FEED in final stages
- In operation: 2027

The Aramco CCS hub in Jubail is designed to support the capture and sequestration of 9 MtCO₂ emissions per year in the first phase of the project, which is planned to be operational by 2027. The hub aims to help meet the Kingdom of Saudi Arabia's interim sequestration target of 44 MtCO₂ per year by 2035, as announced by HRH Abdulaziz bin Salman, Minister of Energy at COP26.

The CCS project will tap into high-purity CO₂ streams from natural gas processing and other industrial sources, with around 6 MtCO₂ coming from Aramco gas plants and the remaining 3 MtCO₂ from other

industrial sources. The CO₂ stream will then be dehydrated and compressed to pipeline specifications and eventually, sequestered in an onshore saline aquifer.

The Aramco Jubail CCS hub aims to contribute to maintaining and creating new jobs in the Kingdom's eastern province industrial cluster. It will contribute to economic diversification and growth and support entering into new markets such as blue hydrogen and ammonia. It will also take steps towards Aramco's ambition to achieve net zero Scope 1 and 2 greenhouse gas emissions across its wholly owned operated assets by 2050.