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Abstract

Commercial scale production of methanol from captured CO2 and hydrogen

In October 2022 the world's first commercial scale CO₂-to-methanol plant started production in Anyang, Henan Province, China. The process plant is built upon CRI's proprietary ETL technology first demonstrated in Iceland. The plant has the capacity to capture and convert 160,000 tonnes per year of carbon dioxide and produce 110,000 tonnes per year of methanol.

The plant start-up is a major milestone in efforts to commercialize carbon capture and utilization technology. CRI's second ETL project in China was announced last year and is already well on its way. It is expected to come online in the second half of 2023. In my talk we will go over the technical and commercial developments leading up to this and discuss the potential for future deployment of the direct CO₂ hydrogenation process.

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