

Pace CCS signs JIP to understand corrosion in CCS projects

Monday 21 August, 2023

LONDON, UK, 16 AUGUST 2023 – Today, Pace CCS have signed the Project Agreement to formally commence a Joint Industry Project funded by the Net Zero Technology Centre, Progressive Energy, Marubeni Itochu Steel, Vallourec, and Hydract.

This project aims to gain new knowledge and improve prediction of corrosion in CCS networks. This key engineering challenge is unique to CCS projects, and this JIP offers vital knowledge to this emerging major industry.

Polar impurities in CO₂, even the parts per million (ppm) concentration range, can influence water solubility and induce a corrosive aqueous liquid at temperatures significantly higher than the pure water dewpoint. Methanol and TEG, commonly present in CCS networks, are two such impurities of interest.

This risk has led to some CCS projects avoid the use of TEG for dehydration altogether, requiring CO₂ dehydration to be delivered by other, potentially more expensive, technology. One example is the Aramis project in the Netherlands, which has effectively banned TEG by setting a limit that cannot be practically met.

Pace CCS will improve understanding, reduce corrosion risk, and reduce the cost of CCS projects by delivering a laboratory testing programme and a web-based software app to allow CCS operators to review operating conditions across a full transport and storage network. The work includes improvement of existing thermodynamic modelling and development of an evolutionary algorithm to ensure the worst case for corrosion is always considered in design.

Pace CCS are the global leaders providing engineering design to CCS projects worldwide, with offices in London, Houston and Kuala Lumpur. Our partners include CCS project developers Progressive Energy, providers of steel and tubulars to the CCS industry Marubeni-Itochu and Vallourec, and laboratory testing specialists Hydract.

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