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Technical assurance of a capture project participating in the UK CCUS programme

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Abstract

CCUS will be essential to meeting the UK's climate commitments, safeguarding its energy security and decarbonising power and industry in a way that drives economic growth and creates high value jobs in industrial heartlands, ensuring a just transition for UK industry and accelerating towards Net Zero. The UK has announced up to £21.7 billion in funding for initial CCUS projects, with the East Coast Cluster reaching financial close in 2024 and the government signing contracts with industry to get the first CCUS projects up and running. Together with the second region benefiting from funding, the HyNet Cluster, these clusters will help remove over 8.5 million tonnes of carbon emissions each year.

We will outline our approach to the technical assurance of a carbon capture project from its initial assessment phase, during technical due diligence, cost assurance and adherence to the appropriate business model, through to final contract award and what we have learned through this process. We will consider interactions with the UK's cluster approach to deploying CCUS and the importance of the technical assurance process in ensuring value for money for government.

Keywords: CCUS; carbon capture project; assessment; technical assurance; cost assurance; business model

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