



ORAL PRESENTATION

Screening and Developing Viable Carbon Storage Projects – CO₂ Transport and Permanent Geological Storage, UK and International

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This keynote presentation will review at a high level some of Storegga's projects around the globe, focussing on the business models that are unlocking these, with reference to technical information. Storegga's cornerstone project is the Acorn project in the UK, which focuses on the opportunity to sequester CO₂ from a variety of emissions sources into well understood reservoirs using some existing infrastructure. Building on this experience, Storegga has expanded internationally in the last 1-2 years, and now has projects in the US, Europe and is looking at opportunities in Asia Pacific and elsewhere. The presentation will discuss the various business models employed regionally that allow these projects to go forward.

An understanding of the entire value chain is critical to the success of a storage site – the best storage site in the world is only the best if you can safely access, deliver, store, and monitor the CO₂ in a cost-effective way, that creates a viable business. A critical element of the storage site screening process is completing an early Basis of Design to understand if the project is viable, e.g., how much CO₂ do I want to store and for how long? What is the CO₂ source and delivery mechanism? Is there a regulatory model or framework? How much will it cost? We don't just look for the 'right rocks', we look for the most suitable rocks given the project constraints that we have. This value chain approach needs to encompass technical, regulatory, and commercial factors. The best technical solution clearly needs a commercial and regulatory framework to succeed. Such frameworks are evolving at different rates and in different ways around the world.

The talk will also discuss the relative merits of saline aquifer and depleted field storage opportunities.

SPEAKER BIOGRAPHY

Catherine Witt is Head of Technical at Storegga, an independent company pursuing carbon storage, hydrogen and carbon removal solutions. Catherine joined Storegga in March 2021 after 26 years in BP in a variety of subsurface leadership roles, latterly in BP's global assurance team, focussing on carbon storage. Catherine joined BP as a Reservoir Engineer in 1994 after doing an MEng in Engineering Science at Oxford University.