

Carbon Capture & Sequestration - Subsea

What we do

We offer technical advice on Carbon Capture and Sequestration (CCS) transportation and storage (T&S) systems.

Our approach is centred on technical excellence. We strive to fully understand our client's challenges and we are passionate about delivering a high-quality service which meets the client's needs.

Crondall Energy has in-depth technical expertise in subsea transport systems from the onshore facility through pipelines to offshore injection facilities, including risers, subsea equipment, and wells.

Our senior staff are recognized experts in their field who have led complex technical CCS studies, detailed evaluations, technical research programmes, authored industry codes and standards, and made design innovations that have passed into common usage.

Crondall Energy CCS – providing assurance in a new industry through solid technical understanding and relevant experience

CCS Capabilities

CCS is a multi-disciplined challenge covering systems, equipment, risk, operability, and new approaches to economic and technical regulation.

Crondall Energy has broad capability and relevant experience across many of the disciplines needed to verify a successful offshore CCS project. Crondall Energy capabilities include the following:

- System engineering skills - a multi-disciplined team
- Experienced pipeline engineering skills
- Experience pipeline structural modelling capability including bespoke software developed for analysing walking and buckling.
- Flow assurance modelling and expertise with experience of modelling gas and liquid (or dense) phase CO₂ transport systems.
- Subsea equipment design knowledge covering manifolds, trees, jumpers, and connection systems
- Well design experts with knowledge of completions and intervention recover to loss of containment issues.
- Risk and reliability - identifying the potential for failure in new systems and putting in place robust mitigations.
- Schedule and cost benchmarking.

Benefit

Our philosophy is to focus on the important things:

1. **Getting It Right** - 1st time, within budget and on schedule
2. **Integration** - all the components work together as a system to enable ease of operation
3. **Reliability** - maximising value, minimising downtime and reducing costs
4. **Continued Safe Operation** - through the whole lifecycle, start-up, late life and de-commissioning