

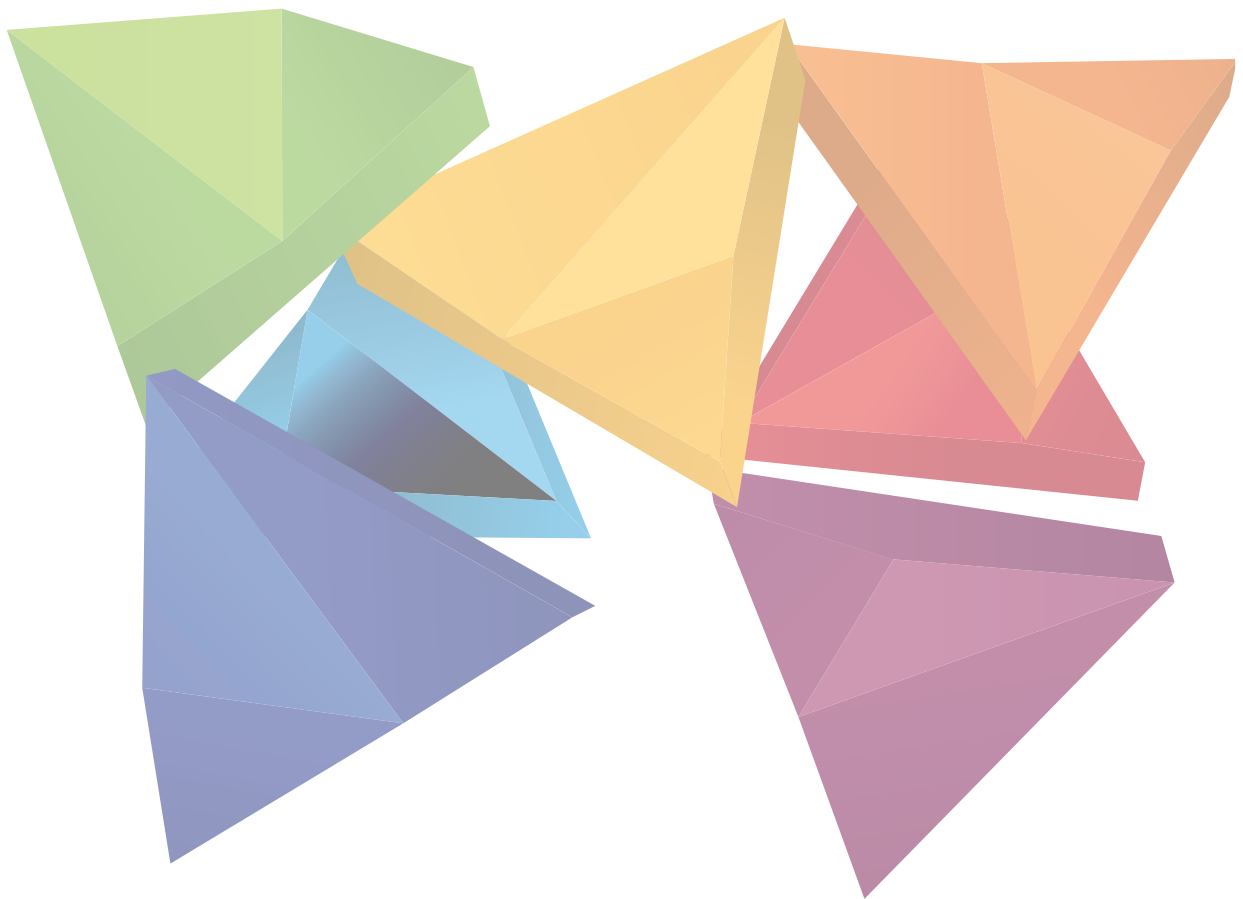
WOOD GROUP



WG INTETECH

A Wood Group business

Materials Selection and Integrity Management for CCS



Wood Group Intetech

Wood Group Intetech (WG Intetech) has been active within the oil and gas industry for more than 20 years. Our services help to enhance the life of oil and gas production facilities, flowlines and pipelines, process systems, utilities and support facilities globally. Our specialist engineers and consultants deliver effective and reliable materials engineering, corrosion and integrity management throughout the asset lifecycle, from design, construction and commissioning, to operation, change of use and decommissioning.

Materials Selection and Integrity Management for CCS

The capture, transportation, sequestration and long-term storage of carbon dioxide is a positive approach to reduce the threat of global warming. Carbon capture and sequestration (CCS) projects require handling highly corrosive, multiphase process fluids including gases, liquids and supercritical liquids, at a wide range of pressures and temperatures.

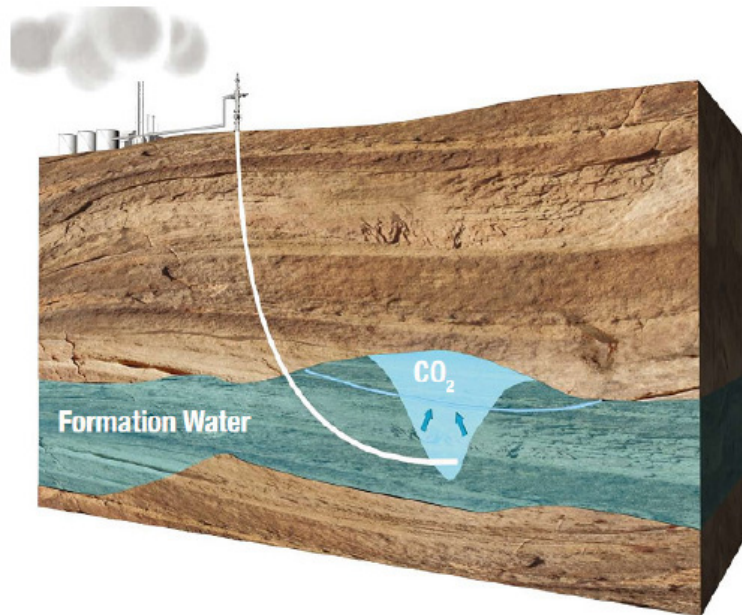


The Challenges

Capture and transport facilities must be reliable and maintain high availability at minimum cost over their lifetime. The cost-effective selection of materials is especially critical for the large scale facilities needed for CO₂ capture from power production, incinerators, refineries, cement manufacturers and metallurgical plants.

High pressure, dense phase CO₂ presents the particular issues of corrosion and fracture resistance in pipeline transport.

Injection well facilities are required to remain leak free and contain CO₂ long after the end of their injection life. Monitoring of the well performance is critical to ensuring that storage is effectively maintained.



Our Experience

WG Intetech has advised several clients on design, materials selection and material specifications for:

- Carbon capture systems in gas and coal power plants using several different combustion processes
- CO₂ transportation in high pressure gas and supercritical states
- CO₂ injection wells requiring ultra-high integrity throughout the lifecycle of operations, shut-in, suspension and long-term abandonment

Our services draw upon 20 years' experience in CO₂ corrosion and materials selection. WG Intetech has a long-term track record for the design of high integrity process facilities, pipelines and wells, and for operational well integrity management. This knowledge and experience is critical for the safe, long-term handling and storage of CO₂.

Contact info@intetech.com to find out how WG Intetech can support your materials selection and integrity management for CCS projects.

Wood Group Intetech

Wood Group Intetech Ltd (Head Office & Europe)

Tel: +44 1244 336 386

Wood Group Intetech North Sea (UK)

Tel: +44 1224 347 336

Wood Group Intetech North Sea (Norway)

Tel: +47 51 37 25 48

Wood Group Intetech Americas

Tel: +1 281 675 3044

Wood Group Middle East & Africa

Tel: +971 2 641 8500

Wood Group Intetech Asia Pacific

Tel: +61 7 32 588 062

Wood Group Intetech Asia Pacific (Malaysia)

Tel: +60 3 220 30059

Wood Group Intetech Asia Pacific (Indonesia)

Tel: +62 21 8370 2455

Wood Group Intetech Asia Pacific (Brisbane)

Tel: +61 7 32 588 062

Wood Group Intetech Asia Pacific (Perth)

Tel: +61 8 6314 2615

Intetech.com

info@intetech.com



**Safety
& Assurance**

Relationships

**Social
Responsibility**

People

Innovation

**Financial
Responsibility**

Integrity