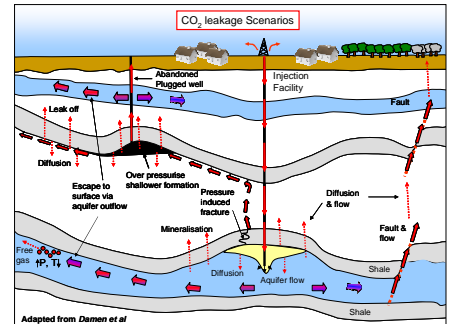
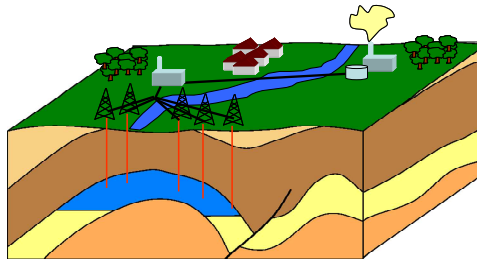


Cost and time estimate for a complete risk assessment of a CCS project

Sector

OIL & GAS
Geological CO₂ storage

Compression – Transport - Storage



Context

CO₂ sequestration is nowadays a topic well studied and pilots begin to be implemented. An operator is conducting a project in partnership with other companies to develop a pilot plant operation to sequester CO₂ emissions into saline aquifers. The project is divided in 3 parts:

1. the site identification and application for permitting;
2. The pilot demonstration project;
3. The long term commercial operation.

The 1st step consists in: (i) Identifying specific saline aquifer locations, (ii) designing and cost estimating a sequestration demonstration including CO₂ compression and transportation and (iii) preparing preliminary application for lease/permit and approval for demonstration pilot.

In order to support their funds demands to Government, the operator has mandated OXAND for a cost and time estimate to conduct a full risk assessment.

From its experience and feedback on CCS projects and their associated risks, OXAND has proposed the key risk families for the CCS project.

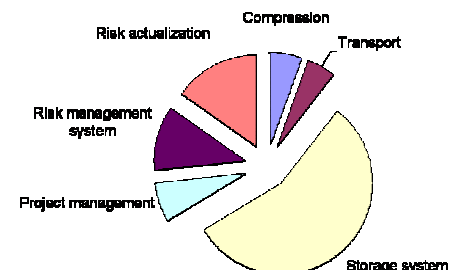
Major challenges were encountered such as coordinating the partners of the project on one hand, and such as evaluating the cost and time for the risk assessment at the earlier stage of the project scope on the other hand.

Methodology

- Data collection and partners companies interviews
- Failure Modes and Effects Analysis
- Key risks families identification
- Experts opinions
- Time and cost estimate assessment

Added Value

- **Justified cost estimate** to support funds demands
- **Workplan elaboration** for a risk management for CCS project
- **Experts network** for CCS project
- **Quick high value analysis**



Project specifications

- CCS process: compression transport and geological storage
- Fund demand for a project of carbon dioxide geological storage in a saline aquifer
- Cost and time estimate class 5 accuracy (+50% / -30%)
- General project scope description

OXAND

Internet : www.oxand.com
E-mail : contact@oxand.com