



# Carbon Capture and Reuse — Technology Assessment and Monitoring

Case Study

# Carbon Capture and Reuse — Technology Assessment and Monitoring

<b>Client</b>	Integrated oil & gas player
<b>Industry</b>	Oil & gas/chemicals
<b>Products</b>	CCUS technologies

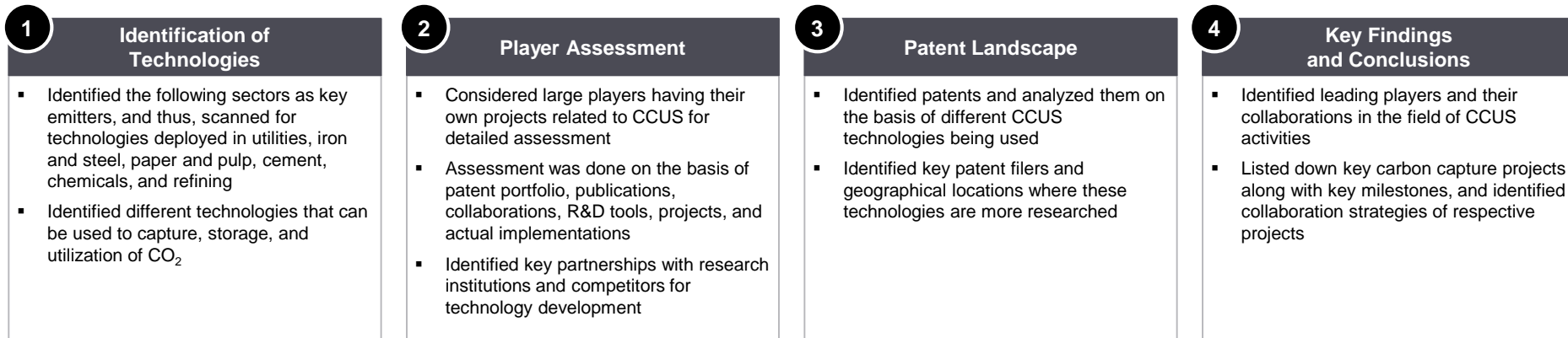
## Context

- The client wanted to understand methods and technologies used by emitters to capture, store, and utilize CO<sub>2</sub>, as a part of the group's energy efficiency initiative.

## Key Business Questions

- What investment strategy is followed by each of the players for deploying CCUS?
- Which CCUS technologies are being increasingly patented and by which company/institution?

## Engagement Scope



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## Research Methodology

### Secondary Research

- Conducted desk research to understand the overall carbon capture market
- Referred to paid databases and identified patents for CCUS activities

### Primary Research

- Conducted 10+ telephonic interviews with technology providers, industry experts, etc.

## Benefits to Client

- The study highlighted large projects and collaboration strategies of active players that helped the client identify key opportunities in CCUS.
- The study identified patents and provided insights on their distribution with respect to assignee type, invention focus, combustion & capture technology, and application area.

## Sample Analysis

**1 Identification of Technologies**

The screenshot displays a table with columns for 'ID of Project', 'ID of Tech', and 'Tech Summary'. Below the table, a detailed view of a technology is shown, including a description of the process, its status, and key players involved.

**2 Player Assessment**

The screenshot displays a table with columns for 'ID of Project', 'ID of Tech', and 'Tech Summary'. Below the table, a detailed view of a company is shown, including its name, location, and a list of its projects and technologies.

**3 Patent Landscape**

The screenshot displays a 'Distribution of patents w.r.t. capture technology' chart, which is a pie chart showing the distribution of patents across different capture technologies. The chart is accompanied by a bar chart and a detailed view of the patent data.

**4 Key Findings and Conclusions**

The screenshot displays a 'Technology evolution trend' chart, which is a bubble chart showing the evolution of technology over time. The chart is accompanied by a pie chart and a detailed view of the technology data.

# Thank you

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