
Project Boundary as Defined in the MUS Carbon Capture and Storage (CCS) CDM Methodology

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Project Boundary

The Project Boundary for the new methodology submission, “Recovery of anthropogenic CO₂ from large industrial GHG emission sources and its storage in an oil reservoir” (NM0167), comprises of the following two aspects:

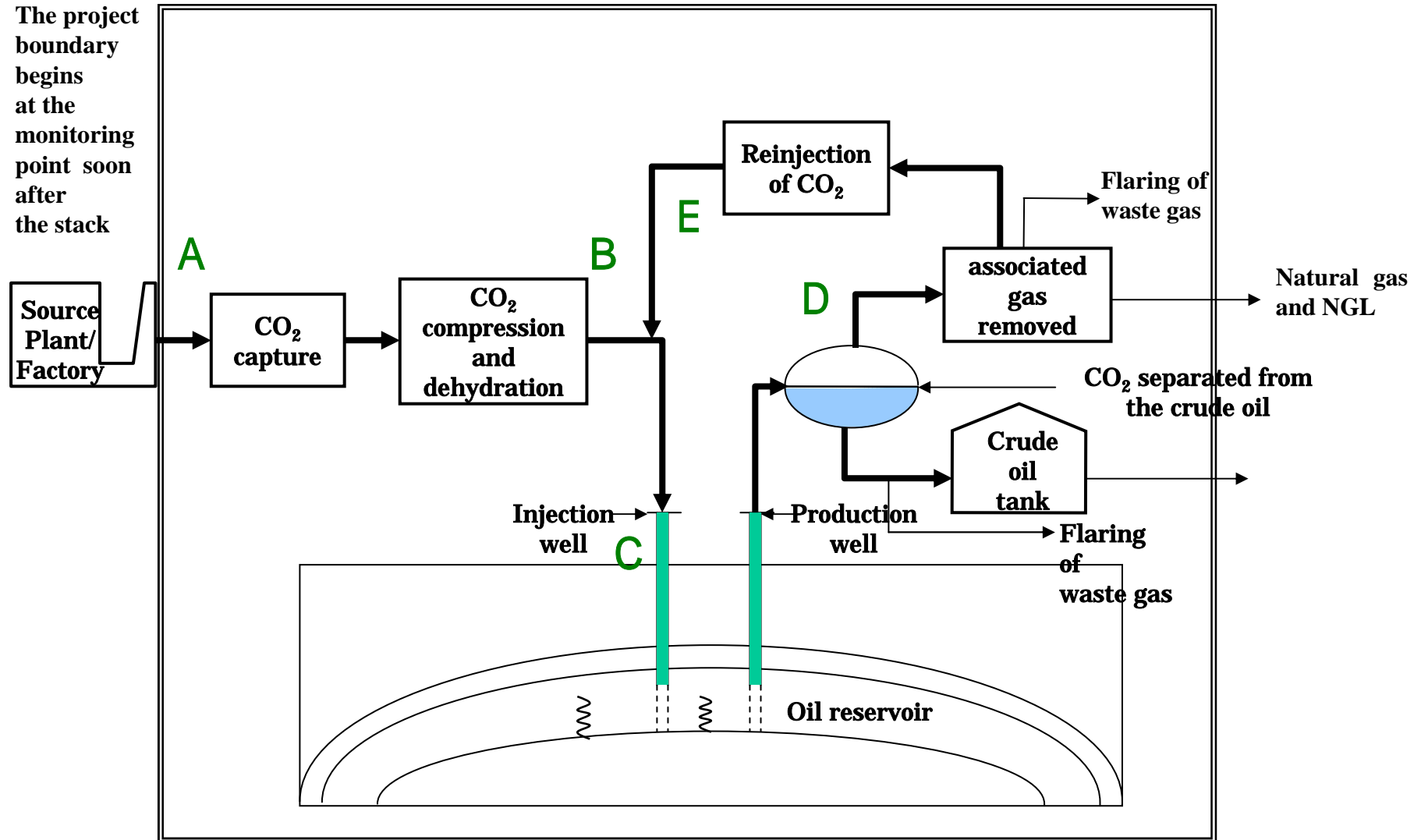
- 1) The physical delineation of the project boundary
- 2) Emission sources included/excluded from the project boundary

Physical Delineation of the Project Boundary

- Does not include the source plant/factory
- Should start at the point where waste gas (containing CO₂) leaves the source in the baseline situation i.e. the stack, etc.
- Includes all equipment/machinery used to run the project – capture, transport and storage
- Projects should capture and store CO₂ in the same country (as stipulated in the applicability conditions)

Project Boundary for CCS Project Activities

The project boundary begins at the monitoring point soon after the stack



Emission Sources Within the Project Boundary

Emission sources and gases related to:

- 1) Baseline – emissions that would have occurred in the absence of the project (depending on how the baseline is set)
- 2) Project – emissions due to the project activity

Baseline Emissions

- Only includes CO₂ from the source plant/factory
- Even if a small fraction of CH₄ is contained within the stored gas, a conservative approach will be adopted (where baseline emissions are not determined for it)
- Baseline emissions are consistent with the baseline scenario – determined as continuation of current practice (for NM0167 to be applicable to the project activity)

Project Emissions

- Depending on the CCS project activity, it could include both CO₂ and CH₄

- Possible sources include-

 - Source (baseline) gas which was not stored - CO₂

 - Source gas which escaped after storage - CO₂

 - Energy consumption (electricity/ fossil fuels) - CO₂

 - Flaring/venting of waste gas - CO₂ and CH₄

 - Wastewater related emissions - CO₂ and CH₄?

Leakage

- Emissions due to the project which occur outside of the project boundary
- Possible sources include -

Production of amine (or other chemicals) - CO₂

CH₄ leaks from natural gas pipeline – CH₄

Increased CO₂ concentration of exported oil - CO₂ ?

Reduced efficiency of source plant - CO₂ ?