

PROJECT PROFILE

CARBON DIOXIDE TRANSPORT & PROCESSING FOR EOR



audubon

Client: OIL AND GAS OPERATOR | Location: UNITED STATES

Audubon was selected to provide [detailed engineering](#), [procurement](#), and [construction management](#) (EPCM) for a large-scale [carbon capture and reuse system](#), beginning with [conceptual design](#). Intended for enhanced oil recovery (EOR) at a depleted oil field, the system was designed to capture 200 million standard cubic feet per day (MMSCFD) of CO₂. The design also included CO₂ compression, supercritical CO₂ pumps, high-pressure CO₂ pipelines, CO₂ dehydration, and formation reinjection.

Audubon's EPCM expertise on the carbon capture and reuse system enabled the oil and gas operator to improve production from the depleted field by utilizing captured CO₂—contributing to [clean energy](#) and reduced emissions.

Project overview

- EOR for depleted field
- Carbon capture & reuse system
- CO₂ supercritical handling & pumping
- CO₂ supercritical compression
- CO₂ dehydration
- CO₂ pipelines
- CO₂ formation injection

Scope of work

- Conceptual design
- Front-end engineering & design (FEED)
- Detailed engineering & design
- Procurement
- Construction management
- [Project management](#)
- Technology selection
- [Pipeline engineering](#)

