

# PROJECT PROFILE LARGE-SCALE CARBON CAPTURE AND SEQUESTRATION



Client: **PUBLIC COMPANY** | Location: **SOUTHWESTERN UNITED STATES**

To meet emissions-reduction objectives, an operator enlisted Audubon for design and management services on a large-scale [carbon capture](#) and sequestration (CCS) system. Audubon supplied [conceptual design](#), front-end [engineering](#) and design (FEED), economic evaluation, and [project management](#).

The CCS system was designed to capture, process, and sequester 1.5 million metric tons of CO<sub>2</sub> in an existing oil field. To ensure feasibility for the project, the Audubon team evaluated and estimated CAPEX and OPEX for capturing CO<sub>2</sub> from local industrial emitters.

Audubon project deliverables gave a road map to the operator for developing a CCS system to capture, process, and transport CO<sub>2</sub> via pipeline and produce a high-quality carbon product for enhanced oil recovery (EOR).

## Project overview

- CCS system for EOR
- CO<sub>2</sub> dew-point control
- CO<sub>2</sub> dehydration
- H<sub>2</sub>S removal
- CO<sub>2</sub> compression
- CO<sub>2</sub> pipeline

## Scope of work

- Conceptual design
- FEED
- CAPEX & OPEX estimation
- Project management
- Technology selection
- [Pipeline engineering](#) & optimization
- Overall system configuration
- Power generation & optimization

