



Project Experience – Partial List

Pelican has extensive experience and expertise in the design of carbon capture, transportation, utilization, EOR (Enhanced Oil Recovery) and sequestration facilities, with over 250 executed CO₂ projects in excess of \$2 billion in TIC (not including pipelines), both in cold and warm climate regions. Our project experience also extends to Canada, South America, Asia and Europe. Pelican has been designing and executing the installation of anthropogenic CO₂ capture facilities since 2009. As part of Pelican's portfolio, our team has been executing CO₂ Enhanced Oil Recovery (EOR) projects since the late 90s, with experience extending to all of the major CO₂ flooded basins in the US, which have been operating since the 1960s.

A partial listing of these projects is as follows:

CO₂ Capture / Compression / Storage Facilities

- Central Kansas
 - Project Description: CO₂ Capture Facility, Pipeline and Recycle Facility
 - Provided Complete Mechanical, Civil/Structural, Pipeline and I&E Design Packages
 - Design of a CO₂ Treatment and Capture Facility from Existing Ethanol Plant
 - Design of a 14-mile 2,220 psig Pipeline with Design Rate of 0.2MM tonnes/yr (Approx. 10 MMSCFD CO₂) to Connect Capture Facility with Oil Field
 - Design of Recycle Facility Including CO₂ Injection and Production Flowline Systems and Well Hookups
 - Facility Production Design Rate: 1,600 BOPD, 5000 BWPD, 25 MMSCFD CO₂ Recycle
 - Test Design Rate: 200 BOPD, 1,500 BWPD, 3.0 MMSCFD CO₂
 - Incoming Working Pressure: 250 psig
 - CO₂ Recycle / Well Injection Pressure: 1,800 psig
- Pennsylvania
 - Project Description: Capture of CO₂ from Boiler Flue Gas
 - 0.32MM tonnes/year (Approx. 16.7 MMSCFD) Captured; 97% Recovery from Flue Gas with 8.7% CO₂
 - CAPEX (+/- 25%) and OPEX for Two Location Options and 3 Recovery Options (97%, 95%, 85%)
 - Capture From 3 Natural Gas Fired Boilers
 - Adjustment of Process Simulation to Account for Promoted Amine Solvents



➤ USA

- Project Description: CO₂ Compressor Station
- Phase 1 Design Rate: 3.2MM tonnes/year (Approx. 170 MMSCFD) from Ammonia Processing Plant
- Future Expansion to 10MM tonnes/year (Approx. 530 MMSCFD)
- Pre-Cast Concrete Structure (Waskey Type)
- High Speed Reciprocating Compressors with Dual 7,000 HP Compressors for Initial Phase with 6-7 Compressors for Ultimate Case
- Inlet and Outlet Leak Detection Metering Skids
- Inlet Separation/Scrubber and Coalescing Unit for Removal of Upfront Liquids
- Incoming Pig Receiver and Outgoing Pig Launcher
- Produced Water Tank
- Vent and Sump Systems
- PDC and PLC/Control Buildings

➤ Offshore USA

- Project Description: CO₂ Central Platform Facility (CPF), CO₂ Injection Well Platforms and Distribution Pipeline Systems
- Structures and Facilities for Deep Zone Monitoring Wells, Shallow Water Monitoring Wells, Passive Seismic and Soil Gas Stations
- CO₂ Pump Station for Sequestration
- Injection Rate of 10.5MM tonnes/year at 2,300 psig in Future
- Modular Steel Deck Design on Steel Piles for CPF in 5 ft. Water Depth with Provisions for Future Expansion
- Steel Monopile Deck for Injection Well Platforms
- DAS/DTS Fiber System Integration
- MCC/PDC Building
- Safety Systems, Communications, Power Control and Utility Infrastructure

➤ USA

- Project Description: Capture of CO₂ from Multiple Sources and Development of Hub Gathering Concept
- Total CO₂ Capture of 5.6MM tonnes/year (Approx. 280 MMSCFD) from 9 Sources Along a 9 Mile Corridor
- Scoping Document, Detailed Project Schedule, and CAPEX (+/- 20%) and OPEX for 5 Processing Options
- Adjustment of Process Simulation to Account for Promoted Amine Solvents
- CO₂ Captured from Refinery FCC, Hydrogen SMR, and Natural Gas Fired Equipment



- USA
 - Project Description: CO₂ Capture Facility – Refinery
 - Provided Study to Capture CO₂ and Deliver as Chemical Feedstock for Methanol and Gasoline; Secondary Option is to Transport CO₂ for Sequestration
 - Design of a CO₂ Treatment and Capture Facility from Post Combustion Utilizing Specialty Amines – Capture Rate of 850,000 tonnes/yr (Approx. 45 MMSCFD)
 - Feed Operating Pressure: Near Atmospheric
 - Blower/Reciprocating Compressor and TEG Dehydration
- USA
 - Project Description: CO₂ Capture Facility
 - Provided Study to Capture CO₂ from a Steam-Methane Reforming Hydrogen Plant
 - Design of a CO₂ Capture Facility from Pressure-Swing Absorber (PSA) Utilizing Specialty Amines
 - Carbon Capture Rate of 207,500 tonnes/yr (Approx. 11 MMSCFD)
 - Blower/Reciprocating Compressor and TEG Dehydration
 - 2,000 psig Compressor Discharge Pressure
- Louisiana
 - Project Description: CO₂ Capture Facility from Steel Mill Direct Reduced Iron (DRI) Process
 - Provided Study to Capture CO₂ from DRI process with phased expansion from 0.8 MM to 2.8 MM tonnes/yr
 - Consisting of Multiple Blower/Reciprocating Compressor Options
 - TEG Gas Dehydration System
 - 1,500 psig Compressor Discharge Pressure
- Various Locations – Texas, Louisiana, Oklahoma, Mississippi, California, Alabama
 - Project Description: CO₂ Capture Facility – Landfill Gas
 - Provided Complete Project Development, Economic Comparisons and Facility Designs for All Disciplines
 - Design of a CO₂ Treatment and Capture Facility from Existing Landfills – Rates Ranging from 1 MMSCFD to 6 MMSCFD Per Site
 - Designed Pipelines and Determined Suitable CO₂ Dispositions Including Sequestration and Utilization Sites
 - Feed Operating Pressure: Near Atmospheric
 - CO₂ Discharge / Well Injection Pressure: 1,800 psig – 2,500 psig



- USA
 - Project Description: Capture of 9 MMSCFD with Expansion to 18 MMSCFD of CO₂ from Amine Plant
 - Neuman & Esser Combined Screw / Reciprocating Package (Total of 3,200 HP)
 - TEG Gas Dehydration System
 - CO₂ Transportation Pipeline
 - Sulfa Treat H₂S Removal System
 - 2,100 psig Compressor Discharge Pressure
- Southwest Colorado
 - Project Description: CO₂ Compression Station
 - Design Rate: 200 MMSCFD
 - Two (2) Dresser Rand HHE frame compressors at 5,500 HP each
 - Suction pressure: 550 psig with discharge pressure of 2,200 psig
 - Gas Dehydration Utilizing Glycol Dehydration (DEG) System
- USA
 - Project Description: Capture of CO₂ from Multiple Amine Sources Ranging Up to 1.4 MM tonnes/yr (Approx. 70 MMSCFD)
 - Consisting of Multiple Screw/ Reciprocating Compressor Options
 - Dexpro Gas Dehydration System
 - CO₂ Transportation Pipelines Ranging in Sizes from 4" Through 10" in Diameter
 - 2,100 psig Compressor Discharge Pressure
- Louisiana
 - Project Description: Capture of CO₂ from Multiple Amine Sources Ranging Up to 0.48 MM tonnes/yr (Approx. 24 MMSCFD)
 - Consisting of Multiple Blower/ Reciprocating Compressor/Multi-Stage Pump Options
 - TEG Gas Dehydration System
 - 1,600 psig Compressor Discharge Pressure
- Louisiana
 - Project Description: Capture of CO₂ from Multiple Amine Sources Ranging Between 0.05 MM to 0.46 MM tonnes/yr totaling 1.6 MM tonnes/yr (Approx. 85 MMSCFD)
 - Consisting of Multiple Electric Blower/Engine Driven Reciprocating Compressor
 - Multiple H₂S Removal Options



- TEG Gas Dehydration System
- 1,800-2,160 psig Compressor Discharge Pressure
- New Mexico
 - Project Description: Capture of CO₂ from Multiple Amine Sources Totaling Approx. 1.1 MM tonnes/yr (60 MMSCFD)
 - Full Acid Gas Injection to Class II Well
 - Phase 1 – Compression to 2,400 psig Injection
 - Phase 2 – Installation of CO₂ Multistage Pumps from 2,400 to 4,500 psig Injection
- Kansas
 - Project Description: CO₂ Capture Facility
 - Provided Mechanical, Civil/Structural, and E/I Design Packages
 - Design of a CO₂ Treatment and Capture Facility from Existing Ethanol Plant
 - Blower/Reciprocating Compressor and TEG Dehydration
 - 0.28 MM tonnes/year (Approx. 14 MMSCFD) Capture Rate
 - 1,400 psig Compressor Discharge Pressure
- USA
 - Project Description: CO₂ Capture Facility from Ethanol Plant Totaling 250,000 tonnes/yr (Approx. 13.5 MMSCFD)
 - Captured CO₂ Feed Stream at 91.2 wt% on Wet Basis with Primary Contaminants of H₂O, N₂ and O₂
 - CO₂ to be Dried to Product Stream Specification of <20 lb/MMSCF
 - O₂ to be Controlled to <200 ppm Prior to Feeding Capture System
 - CO₂ to be Compressed to 2,100 psig for Onsite Sequestration
- USA
 - Project Description: CO₂ Capture Facility from Ethanol Plants (Total of 173 MM gal/yr Capacity) for Sequestration
 - Capture Facility with Compression Train to Capture CO₂ from Three (3) Batch Process Ethanol Plants
 - Blower System with Suction Scrubber
 - Blower After Cooler
 - TEG System to Dehydrate Supercritical CO₂ to <30 lbs/MMSCFD
 - Inter and After Coolers
 - E&I Infrastructure, Utilities, Liquid Handling, Safety and Control Systems
- Texas, USA
 - Project Description: Post Combustion CO₂ Capture Facility



- Capture from Exhaust of Three (3) Natural Gas Fired Compressors and Two (2) Natural Gas Fired Hot Oil Heaters Using an Amine Capture Process
 - 24,000 tonnes/year of CO₂ Captured (Approx. 1.3 MMSCFD)
 - Recovery from Exhaust Stream with 12.6% CO₂
 - CO₂ Treating Utilizing Proprietary Amine Solvent
 - CO₂ to be Compressed, Transported Through an Existing Pipeline and Sequestered into an Adjacent Well
- North Dakota
 - Project Description: CO₂ Storage Facility
 - Injection Flow Rate of 1.7 MM tonnes/yr (Approx. 85 MMSCFD)
 - 1950 psig Topside Injection Pressure
 - 3 Mile Lateral from Main CO₂ Trunk Line
 - Facilities to Produce CO₂ from Storage Reservoir and Treat to Pipeline Quality
- Wyoming
 - Project Description: CO₂ Compression Facility
 - Provided Complete Mechanical, Civil/Structural, Pipeline and I&E Design Packages
 - Multi-Discipline Expansion Project to Install Two New 30 MMSCFD (Total of 10,000 HP) Reciprocating CO₂ Compressors
 - Variable Frequency Drives, PDC / MCC Building, 15MVA Transformers, Compressor Building with 20-Ton Overhead Crane, Interstage and Final Discharge Air Coolers, 2-Phase Separator, Cooling Water Tower
 - 200 MMSCFD Flare Knock Out Drum and Flare
 - Pipe Rack and Access Roads
- Louisiana
 - Project Description: Methane Removal and NGL Production Project
 - Separating methane and NGL from existing facility CO₂ Recycle Stream Designed for 200 MMSCFD.
 - Major equipment consisted of Silica Gel Dehydration and Regeneration, 2-Stage Membranes, Chiller, Stabilizer, Dewpoint Control, Dresser Rand 2 Section 20,450 HP Centrifugal Compressor, LP and MP Screw Compressors, Hot Oil Systems and NGL Storage and Truck Loading.
- Bulgaria
 - Project Description: CO₂ EOR Project
 - Provided Process Design FEED Study to Capture CO₂ from an Existing Fertilizer Plant, Treat / Dehydrate CO₂ and Deliver to Pipeline System for Transport to Existing Oil Fields



- Feasibility Study Included Study of All Compression Types Including New Shockwave Technology for CO₂ Compression
- Designed CO₂ Rate of 50 MMSCFD for Phase 1 Development and Future Expansion of 100 MMSCFD for Phase 2 Development with Inlet Pressure of 5 psig and Discharge Pressure of 2,000 psig
- Alberta, Canada
 - Project Description: CO₂ EOR Facility Project
 - Provided Process Design Review to Capture CO₂ from an Existing Fertilizer Plant and Transport the CO₂ for Enhanced Oil Recovery at Existing Fields
 - Railcar and Pipeline Options were Considered for Transportation
 - Utilized Aspen HYSYS to Determine Ideal Transport Conditions for Each Case
 - Feasibility Review of the Central Processing Plant with Recommended Process Changes, Material Selection and AFEs, Project Schedules and Execution Plan

CO₂ EOR Processing Facilities

- Texas
 - Project Description: CO₂ Recycle Pilot Facility/Pipeline Design
 - Provided Complete Mechanical, Civil/Structural and I&E Design Packages
 - Design of an 8" - 2,220 psig Pipeline with Design Rate of 200 MMSCFD CO₂ from Kinder Morgan Pipeline to Goldsmith, Texas
 - Facility Production Design Rate: 840 BOPD, 13,660 BWPD, 3 MMSCFD CO₂ Recycle
 - Test Design Rate: 120 BOPD, 2,380 BWPD, 0.5 MMSCFD CO₂
 - Incoming Working Pressure: 70 psig
 - CO₂ Recycle / Well Injection Pressure: 1,800 psig
- Mississippi
 - Project Description: Central Facility, Production / Injection System
 - Design Rate: 2,000 BOPD, 5,000 BWPD, 40 MMSCFD CO₂ Recycle
 - Incoming Working Pressure: 850 psig
 - CO₂ Recycle / Pipeline Injection Pressure: 3150 psig
 - Utilized Dresser Rand 6HOS/2 20 MMSCFD Recycle Compressors
 - Utilized Two (2) Woodgroup TJ9000 20 MMSCFD Horizontal Centrifugal Pumps
- Louisiana
 - Project Description: Central Facility, Production / Injection System
 - Design Rate: 2,500 BOPD, 5,000 BWPD, 60 MMSCFD CO₂ Recycle
 - Incoming Working Pressure: 850 psig
 - CO₂ Recycle / Pipeline Injection Pressure: 3,150 psig



- Utilized Three (3) Dresser Rand 6HOS/2 20 MMSCFD Recycle Compressors
- Utilized Three (3) Woodgroup TJ9000 20 MMSCFD Horizontal Centrifugal Pumps

➤ Louisiana

- Project Description: Central Facility, Production / Injection System
- Design Rate: 12,000 BOPD, 100,000 BWPB, 390 MMSCFD CO₂ Recycle
- Incoming Working Pressure: 400-700 psig
- CO₂ Recycle / Pipeline Injection Pressure: 1,350 psig
- Utilized Two (2) Dresser Rand 7HOS/4 60 MMSCFD Recycle Compressors
- Utilized Four (4) Dresser Rand 7HOSS/6 130 MMSCFD Recycle Compressors
- Utilized Screw Compressor for Vapor Recovery

➤ Louisiana

- Project Description: CO₂ Recycle Methane Removal and NGL Production
- Separation of Methane and NGL from Existing Facility CO₂ Recycle Stream.
- Major Equipment Consisted of Silica Gel Dehydration, 2-Stage Membranes, Chiller, Stabilizer, Dewpoint Control, Dresser Rand 2 Section 20,450 HP Centrifugal Compressor, and NGL Storage/Truck Loading

➤ Texas

- Project Description: Central Facility, Production / Injection System
- Design Rate: 8,000 BOPD, 40,000 BWPB, 200 MMSCFD CO₂ Recycle
- Incoming Working Pressure: 400-850 psig
- CO₂ Recycle / Pipeline Injection Pressure: 2,200 psig
- Utilized Two (2) Dresser Rand 5HOS/4 15 MMSCFD L.P. Recycle Compressors with CAT G3608 TALE Engine with SCR/OC Emission Controls
- Utilized One (1) Dresser Rand 5HOS/4 38 MMSCFD H.P. Recycle Compressors with CAT G3606 TALE Engine with SCR/OC Emission Controls
- Utilized Three (3) Dresser Rand 5HOS/6 50 MMSCFD Recycle Compressors with CAT G3608 TALE Engine with SCR/OC Emission Controls
- Utilized Combination of Centrifugal Blowers and Screw Compression for Atmospheric and Low-Pressure Vapor Recovery

➤ Montana

- Project Description: Central Facility, Production / Injection System
- Design Rate: 15,000 BOPD, 55,000 BWPB, 260 MMSCFD CO₂ Recycle
- Incoming Working Pressure: HP: 400-700 psig, LP: 100-200 psig
- CO₂ Recycle / Pipeline Injection Pressure: 2,100 psig
- Utilized One (1) Dresser Rand Small HP 7HOSS/4 40 MMSCFD Recycle Compressors



- Utilized Two (2) Dresser Rand Large HP 7HOSS/6 80 MMSCFD Recycle Compressors
- Utilized Two (2) Dresser Rand LP 7HOSS/6 35 MMSCFD Recycle Compressors
- Utilized Screw Compressor for Vapor Recovery

➤ Texas

- Project Description: Central Liquids Handling and Compression Facility, Production / Injection System
- Design Rate: 3,000 BOPD, 30,000 BWP, 35 MMSCFD CO₂ Recycle
- Incoming Working Pressure: 175 psig
- CO₂ Recycle / Well Injection Pressure: 1,500 psig
- Utilized One (1) Oil-flooded Screw VRU Compressor
- Utilized One (1) Oil-flooded Screw LP Compressor
- Utilized One (1) Dexpro Unit for Dehydration with Five (5) 3-Stage Reciprocating HP Recycle Compressors 7 MMSCFD
- Utilized four (4) Horizontal Multistage Centrifugal Pumps
- Water Recycle / Well Injection Pressure: 1,050 psig

➤ Louisiana

- Project Description: CO₂ Recycle Facility Design
- Provided Complete Mechanical, Civil/Structural, I&E Design Packages
- CO₂ Source from Truck Loading Facility
- Design of a 1,500 psig Injection System Utilizing Flex Steel Injection Materials
- Design of Recycle Facility including CO₂ Injection, Production Flowline Systems, Separation and Glycol Dehydration
- Facility Production Design Rate: 1,000 BOPD, 1,000 BWP, 6 MMSCFD CO₂ Recycle
- Test Design Rate: 200 BOPD, 750 BWP, 1.0 MMSCFD CO₂
- Incoming Working Pressure: 285 psig
- CO₂ Recycle / Well Injection Pressure: 1,250 psig

➤ Utah

- Project Description: McElmo Unit Water / CO₂ Flood Upgrade FEED Study and Execution of Upgrades to Existing Facilities and Centralization of Processing Capabilities
- Additional Production Design Rate: 30 MMSCFD CO₂, 3,000 BOPD, 28,000 BWP



CO₂ Pipelines, Pipeline Booster / Meter Stations

- Mississippi
 - Project Description: Pipeline Design with Booster / Meter Station
 - 150 MMSCFD CO₂ Station Capacity
 - Utilized Two (2) Woodgroup TM24000A 75 MMSCFD Horizontal Centrifugal Pumps
 - Design of CO₂ Cooling System Utilizing Water Cooling Tower and Heat Exchangers
- Mississippi
 - Pipeline Design with Booster / Meter Station
 - Booster Station Design for 800-1000 MMSCFD CO₂ Capacity with Discharge of 2,160 psig
 - Integrate NEJD and Barksdale Pipeline
 - Utilized Eight (8) Woodgroup TN3500 100 MMSCFD Horizontal Centrifugal Pumps
 - Utilized Suction and Discharge Wet Surface Air Coolers (WSAC)
- Mississippi
 - Project Description: Pipeline Design with Booster / Meter Station
 - Booster Station Design for 650 MMSCFD CO₂ Capacity with discharge of 2,160 psig at 90°F
 - Utilized Four (4) Woodgroup TN2500 260 MMSCFD Horizontal Centrifugal Pumps
 - Utilized Wet Surface Air Coolers (WSAC)
- Louisiana
 - Project Description: Pipeline Design with Booster/Meter Station
 - Booster Station Design for 650 MMSCFD CO₂ Capacity with discharge of 2160 psig at 90° F
 - Utilized Three (3) Woodgroup TX2500 260 MMSCFD Horizontal Centrifugal Pumps
- Louisiana
 - Project Description: 60 mile, 24" Pipeline for Anthropogenic CO₂ Capture from Multiple Sources of CO₂
 - Pipeline Design from 300 MMSCFD to 900 MMSCFD Capacity with Operating Pressure of 1250 psig to 2350 psig
 - Future Midline Booster Stations Included in Design



- Wyoming
 - Project Description: CO₂ Pipeline Scoping Report
 - Provided a Feasibility Study and Scoping Report for Installation of a 90 mile CO₂ Pipeline with Operating Pressures of 2,400 psig
 - Provided Elevation Profile with Pressure Drop Calculations Utilizing HYSYS with Initial Flowrates of 32.5 MMSCFD and Future Flowrates of 70 MMSCFD

CO₂ Test Site Facilities

- Mississippi
 - Project Description: Field / Test Site #1
 - Production Design Rate: 2,523 BOPD, 24,550 BWPB, 33 MMSCFD CO₂
 - Test Design Rate: 200 BOPD, 1,000 BWPB, 16 MMSCFD CO₂
 - Incoming Working Pressure: 425 psig
- Mississippi
 - Project Description: Field / Test Site #2
 - Production Design Rate: 5,000 BOPD, 50,000 BWPB, 45 MMSCFD CO₂
 - Test "A" Design Rate: 200 BOPD, 1,000 BWPB, 6 MMSCFD CO₂
 - Test "B" Design Rate: 200 BOPD, 1,000 BWPB, 6 MMSCFD CO₂
 - Incoming Working Pressure: 425 psig
- Mississippi
 - Project Description: Field / Test Site #1
 - Production Design Rate: 3,000 BOPD, 30,000 BWPB, 45 MMSCFD CO₂
 - Test Design Rate: 300 BOPD, 1,500 BWPB, 3 MMSCFD CO₂
 - Incoming Working Pressure: 400 psig
- Mississippi
 - Project Description: Field / Test Site #2
 - Production Design Rate: 3,000 BOPD, 30,000 BWPB, 45 MMSCFD CO₂
 - Test Design Rate: 300 BOPD, 1,500 BWPB, 3 MMSCFD CO₂
 - Incoming Working Pressure: 400 psig
- Mississippi
 - Project Description: Field / Test Site #1
 - Production Integrated with Martinville Central Facility
 - Test Design Rate: 200 BOPD, 750 BWPB, 3 MMSCFD CO₂
 - Incoming Working Pressure: 850 psig



- Mississippi
 - Project Description: Field / Test Site #1
 - Production Design Rate: 7,000 BOPD, 20,000 BWPD, 80 MMSCFD CO₂
 - Test Design Rate: 3,000 BLPD, 7 MMSCFD CO₂
 - Incoming Working Pressure: 400 - 900 psig
 - Including Infield Flowlines

- Texas
 - Project Description: Field / Test Site #1
 - Production Design Rate: 800 BOPD, 8,500 BWPD, 5.8 MMSCFD CO₂
 - Test Design Rate: 1,050 BLPD, 0.65 MMSCFD CO₂
 - Incoming Working Pressure: 300 - 1,000 psig
 - Infield Flowlines Included

- Texas
 - Project Description: Field / Test Site #2
 - Production Design Rate: 400 BOPD, 4,000 BWPD, 2.8 MMSCFD CO₂
 - Test Design Rate: 1,080 BLPD, 0.7 MMSCFD CO₂
 - Incoming Working Pressure: 300 - 1,000 psig
 - Infield Flowlines Included

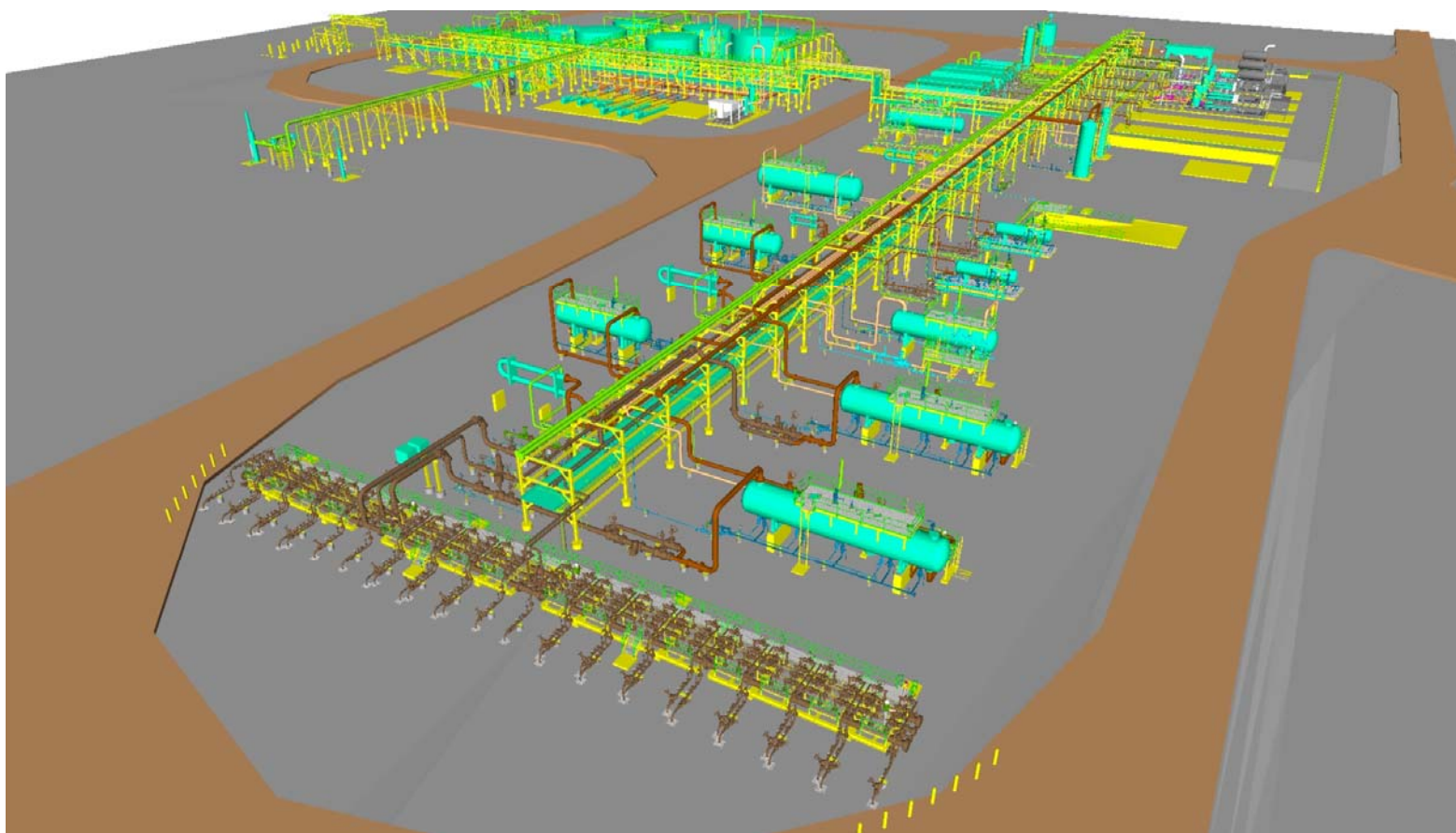
Facility Model Examples

Central Facility

Design Rate: 10,000 BOPD, 40,000 BWPD, 200 MMSCFD CO₂ Recycle

Incoming Working Pressure: 400-850 psig

CO₂ Recycle / Well Injection Pressure: 2,200 psig



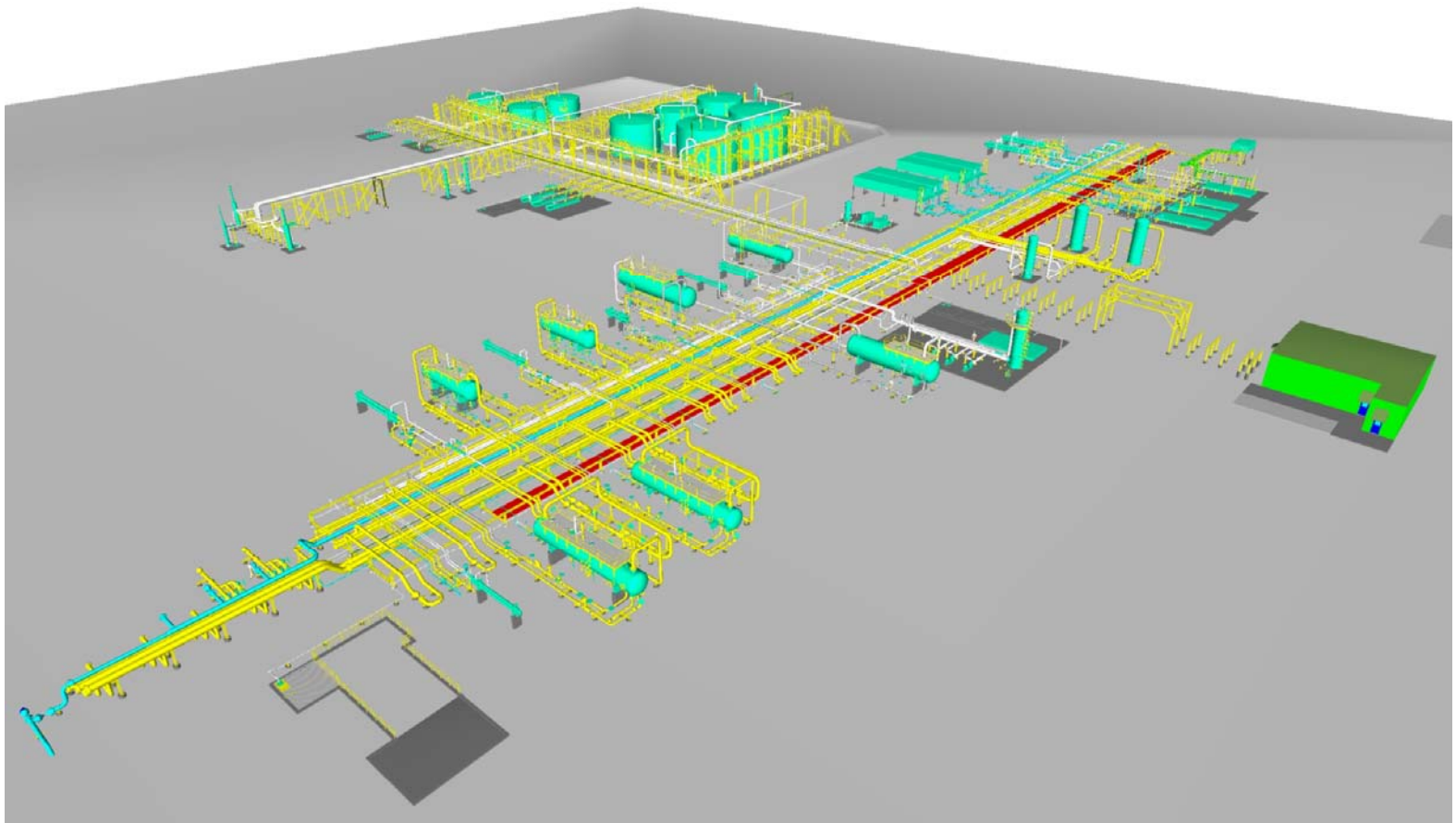


Louisiana Central Facility

Design Rate: 12,000 BOPD, 100,000 BWPB, 390 MMSCFD CO₂ Recycle

Incoming Working Pressure: 400-700 psig

CO₂ Recycle / Well Injection Pressure: 1,350 psig

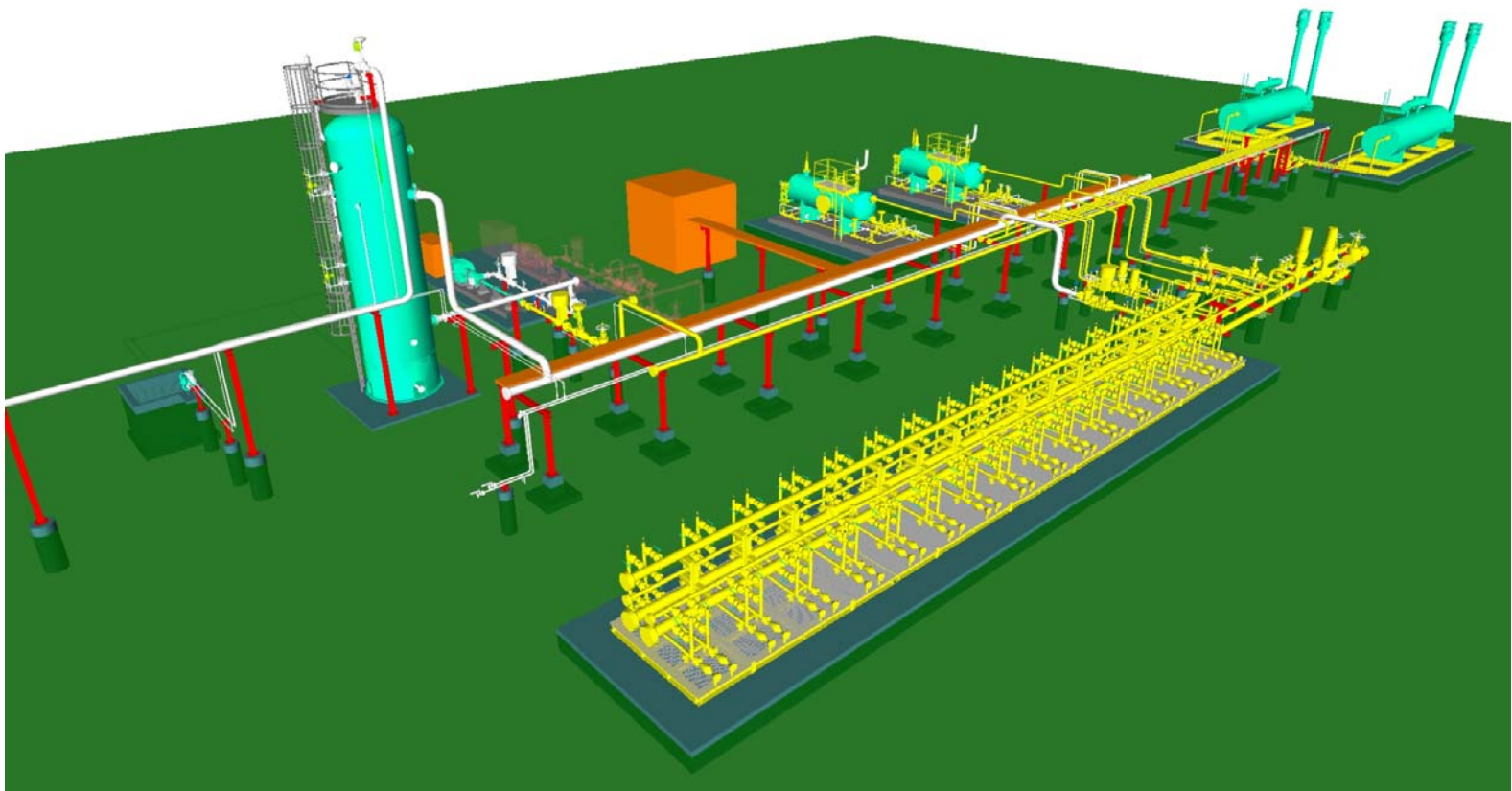


Mississippi Field/Test Site

Production Design Rate: 3,000 BOPD, 30,000 BWPD, 45 MMSCFD CO₂

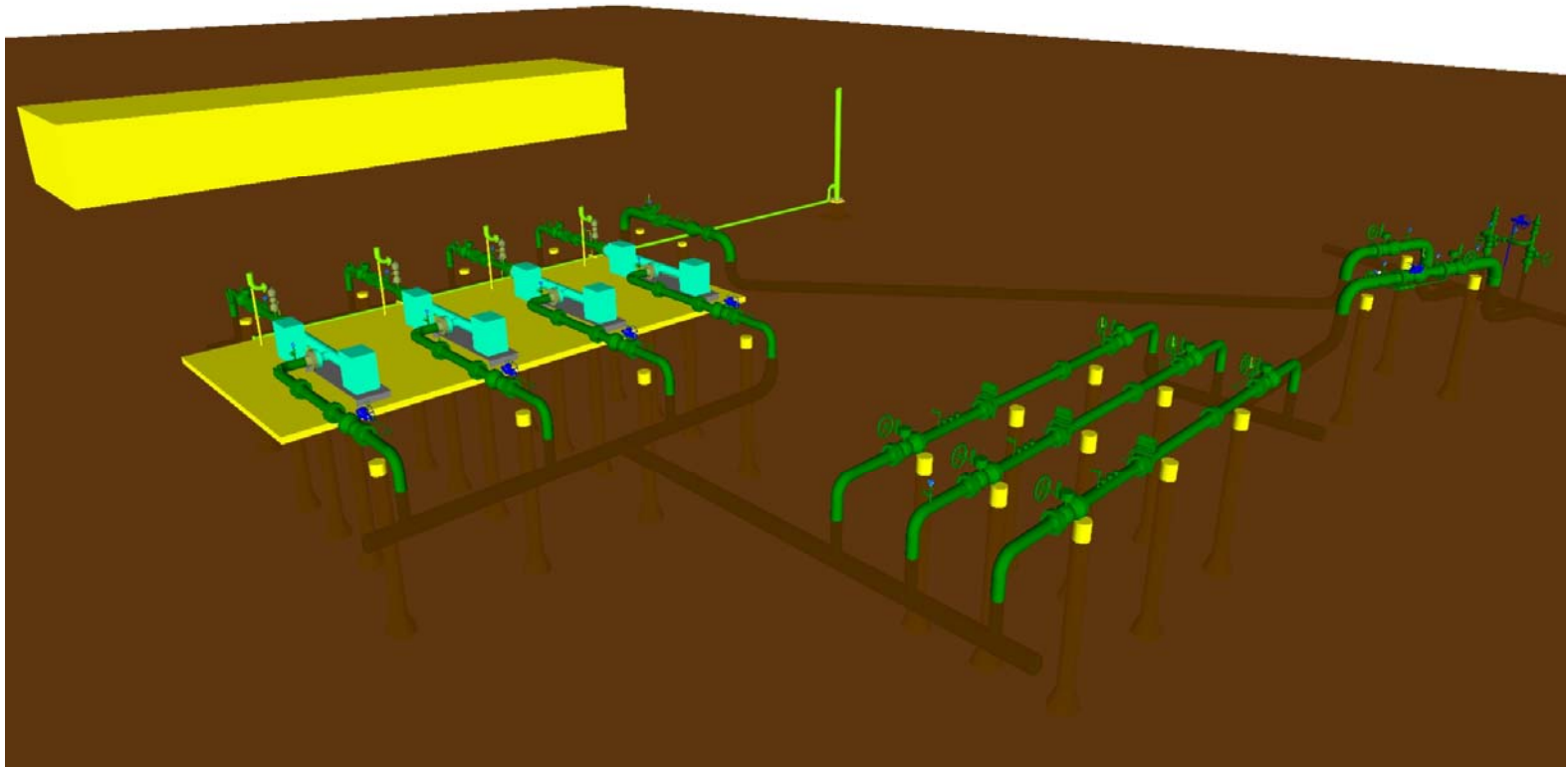
Test Design Rate: 300 BOPD, 1,500 BWPD, 3 MMSCFD CO₂

Incoming Working Pressure: 400 psig



Mississippi Booster/Meter Station

Booster Station Design for 650 MMSCFD CO₂ Capacity with Discharge of 2,160 psig at 90° F
Utilized Four (4) Wood Group TN2500 260 MMSCFD Horizontal Centrifugal Pumps





Wyoming Compression Facility

Design Rate: 60 MMSCFD CO₂, 10,000 HP Reciprocating Compressors

Incoming Working Pressure: 190 psig

CO₂ Recycle / Well Injection Pressure: 2,350 psig





Texas Capture Facility

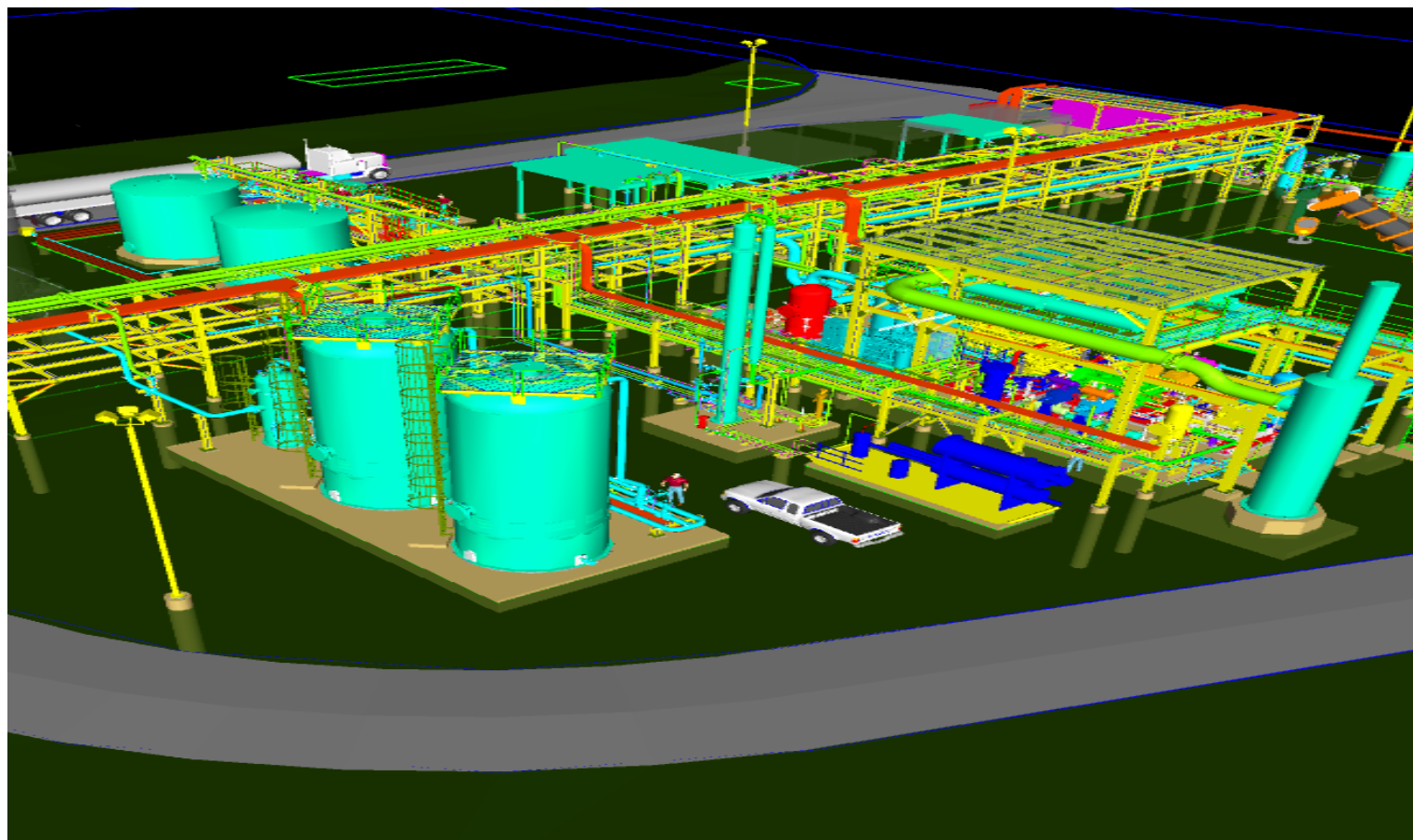
Design Rate: Capture of 9 MMSCFD of CO₂ from Amine Plant

TEG Gas Dehydration System

CO₂ Transportation Pipeline

Sulfa Treat H₂S Removal System

Discharge Pressure 2,100 psig



Kansas Capture Facility

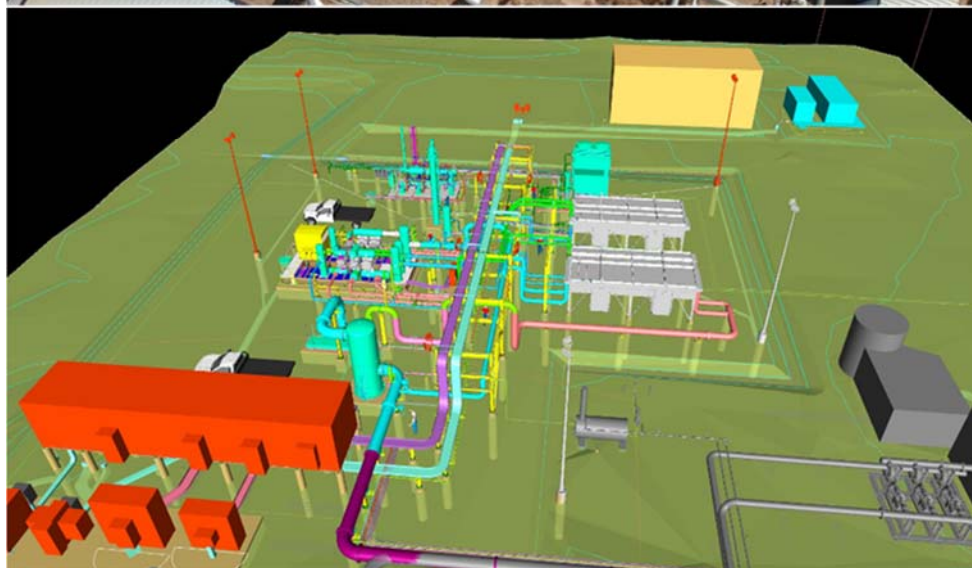
Design Rate: 0.2MM tonnes/yr - 10 MMSCFD CO₂

Capture Facility from Ethanol Plant with 14 mile 2,220 psig Pipeline to Oil Field



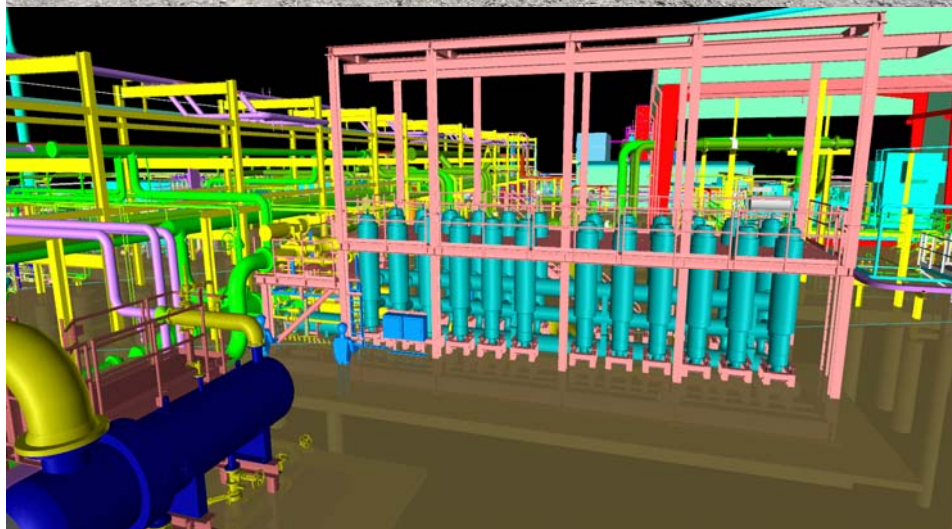
Kansas Capture Facility

Design Rate: 0.28 MM
tonnes/yr - 14 MMSCFD CO₂
Capture Facility from Ethanol
Plant with final WSAC to
1,400 psig Pipeline to EOR
Field



**North Louisiana
CO₂ / Methane NGL
Separation Facility**

200 MMSCFD CO₂ Recycle
Methane Removal and NGL
Production





Colorado Compression Station

Design Rate: 200 MMSCFD

Suction pressure 550 psig with discharge pressure of 2,200 psig

Gas Dehydration Utilizing Glycol Dehydration (DEG) System

