

# Oil and Gas

## Optimization/Consulting

Tulare Plant Capacity Study  
 Water Cooling Study  
 Gas Handling Upgrade Study  
 Brine Skid Consulting  
 Oil Plant Temperature Inlet Calculator  
 Wet Steam System Modeling  
 CVR Gas Disposal Modeling  
 Oil Plant Surging Mitigation Pre-FEED  
 CVR Debottlenecking Evaluation  
 Water Separation Study  
 Steam Injection Infrastructure Study  
 WESP Consulting  
 CVR System Optimization Scoping Study  
 LCFS Application Documentation  
 Dehy Capacity Study  
 Steam Generator Efficiency Study  
 Steam Generator Piping Study  
 Substation Feasibility Study  
 Power Generation Feasibility Study  
 Electrical Backbone Study

NSF Media Carry-Over Pre-FEED  
 FWKO Desanding Study  
 Steam Generation Technology Alternatives Study  
 Vessel De-Sanding Study  
 Diatomite Development Pre-FEED  
 Oxy-Fuel Steam Generation and CCS Study  
 GHG and LCFS Study Scoping  
 Excess Water Plant Scoping Study  
 Biogas LCFS Study  
 CO2 Sequestration Study Pre-FEED  
 Solar Power Study  
 Steam Generator CCS Study  
 Vessel De-Sanding Study  
 Solar Tower Force Analysis & Wire Spec.  
 Diatomite Engineering Support  
 Well Cellar and Fluids Handling - Scoping  
 Carbon Intensity Reduction Study  
 Wastewater Reduction Study  
 Supercritical CO2 Pipeline Consulting  
 CO2 Emission Reduction Study

## On-Plot Plant Design

Vessel De-Sanding Study/FEED  
 Diatomite Development Pre-FEED/FEED  
 Vessel Foundation Support  
 Permanent Gas Handling Facility Conversion  
 Dehy Tank FEED  
 Steam Generator Addition Design  
 Filtered Water and Soft Water Tank FEED  
 FWKO and WEMCO Installation Design  
 H2S Removal Vessel Engineering  
 Water Plant Control Philosophy  
 Waterflood Pumps FEED/Detailed Design  
 New Oil Field Facility Detailed Design

Vertical Vessel Foundation  
 Piperack Structural Evaluation  
 Cogen Ammonia Piping Evaluation  
 Gas Boot FEED/Detailed Design  
 Gas Plant Piping Modifications - Pipe Stress Analysis  
 Production Measurement FEED  
 Production Separation and Metering - Detailed Design  
 Diatomite Gas Handling System - FEED/Detailed Design  
 Experimental Oil Production Pilot Design  
 Heavy Oil Shipping Pump Design  
 Water Plant Expansion FEED/Detailed Design  
 Tank Vapor Recovery Design

## UPSTREAM

# Oil and Gas

### Off-Plot Systems

Streambed Improvement  
Pipeline Hydraulics Consulting  
Hwy 33 Concrete Vault Design  
Hwy 223 Road Crossing  
Canal Crossing Consulting  
Production Trunkline Debottlenecking  
Gauge Setting Header Modularization  
Gauge Setting Site Stability

Gauge Setting Vessel Foundation Support  
Gauge Setting SE Containment Certification  
Wellpad Site Development  
Steam Distribution Redesign  
Waterflood Distribution modeling  
Heavy Oil Pipeline Design

## MIDSTREAM

# Oil and Gas

### Pipelines

DOT Gas Pipeline Project - FEED/Detailed Design/Construction Support  
Solar Rectifier Structural and Electrical Engineering  
CO2 Pipeline Evaluation  
Supercritical CO2 Pipeline Consulting

### Pumping and Heating Stations

Tank Stairway Structural Evaluation and Modification  
Pipeline Heater Station Upgrade-Site #1 FEED/Detailed Design  
Pipeline Heater Station Upgrade-Site #2 FEED/Detailed Design  
Shipping Pump Replacement Evaluation