Geosyntec consultants

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STATEMENT OF QUALIFICATIONS FOR

CARBON CAPTURE, UTILIZATION, AND STORAGE

GEOSYNTEC SERVICES

CCUS SERVICES

- Project planning and permitting
- Regulatory compliance
- Engineering and design
- Site screening and selection
- Impact assessment under National Environmental Policy Act (NEPA)
- Stakeholder outreach and community benefits plans
- Geohazard assessment and mitigation
- Funding assessment and application support (e.g., CarbonSAFE)
- 45Q and state credit advisory services

CO_2 CAPTURE / UTILIZATION

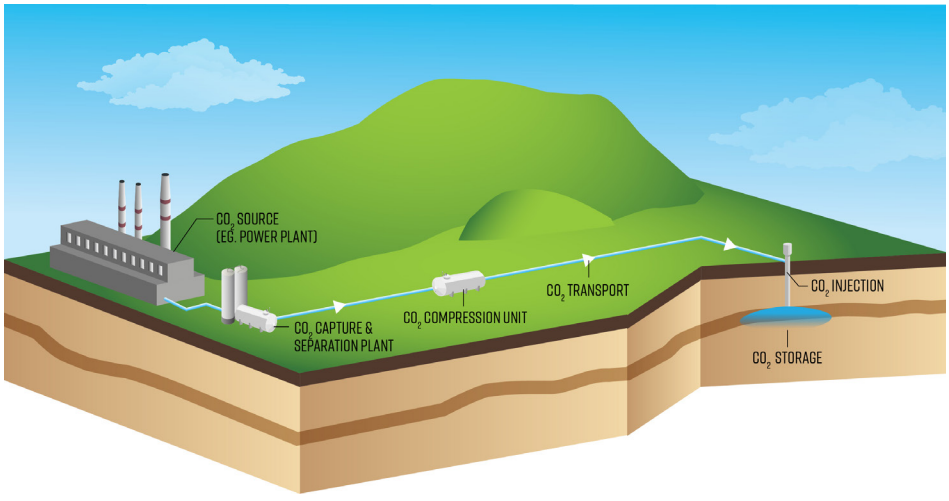
- Capture-technology screening
- Research and development
- Engineering and design
- Greenhouse-gas calculation, monitoring, and verification
- Life Cycle Assessment (LCA)
- Natural resource and cultural field surveys
- Routing and siting studies

CO_2 TRANSPORT

- Routing and siting studies
- Natural-resource and cultural field surveys
- Construction monitoring
- Engineering and design

CO_2 STORAGE / GEOLOGIC SEQUESTRATION

- Class VI injection well permitting
- California Air Resources Board (CARB) Low Carbon Fuel Standard (LCFS) Site Certification
- Monitoring, Reporting, and Verification (MRV) Plan development
- Geologic site characterization
- Static and dynamic reservoir modeling
- Geochemical modeling
- Environmental monitoring plan development



Geosyntec manages Carbon Capture, Utilization, and Storage (CCUS) programs from initial feasibility studies to monitoring and reporting. Our CCUS practitioners assist clients in managing project risks, including aboveground risks (regulatory, community, reputational, sensitive resources, and distance to sources), and below ground risks (seismic, ground-water aquifers, well control, fault lines, interference with existing wells, and compatibility).

REPRESENTATIVE EXPERIENCE

SUBSURFACE PERMITTING LEAD

Geologic site characterization, operational testing and monitoring plan, emergency response and remedial plan, QASP, data management, geochemical modeling, and subsurface visualization to complete a UIC Class VI Permit in United States Environmental Protection Agency (EPA) Region IX. Post application submittal support and California Air Resources Board (CARB) Low Carbon Fuel Standard (USEPA) Certification ongoing for this CO_2 sequestration project.

BASELINE MONITORING SUPPORT

Preparation of baseline monitoring plans and sample collection for a CO_2 sequestration project in Region VIII.

FEDERAL FUNDING AND CLASS VI PERMITTING

Preparation of United States Department of Energy CarbonSafe Phase III grant applications for two CCS projects located in the Gulf Coast. Class VI permitting support ongoing for one of the CO_2 sequestration projects.

SITE IDENTIFICATION AND NON-TECHNICAL RISK ANALYSIS

Market study for private equity to identify and track CCUS related projects and develop a presentation on the market drivers, risk, and permitting process with focus on Texas and Louisiana.

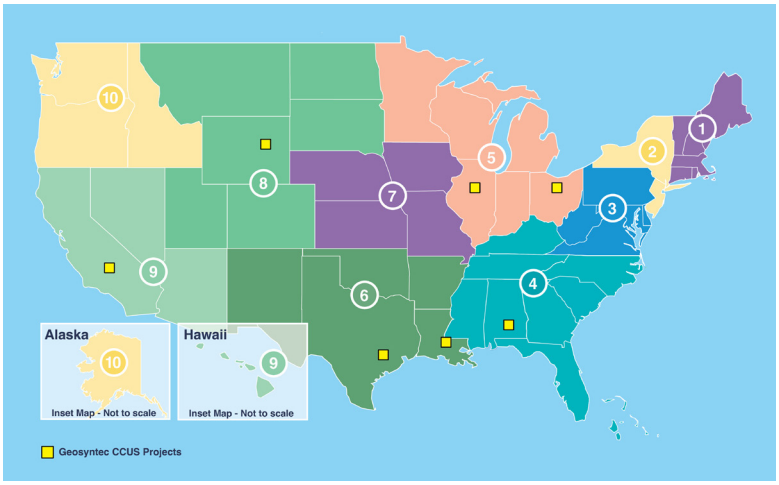
PERMITS & CONSENTS SUPPORT AND HSSE CONSTRUCTION SUPPORT

Permitting, planning, geohazard services, and construction oversight for thousands of linear miles of transmission pipelines and electric transmission lines throughout the Gulf Coast.

STAKEHOLDER ENGAGEMENT

Stakeholder engagement lead on two Class VI permitting projects in USEPA Region VIII.

GEOSYNTEC HAS SUPPORTED NUMEROUS CCUS PROJECTS ACROSS 7 STATES AND 5 USEPA REGIONS.



KEY CCUS PROFESSIONAL TEAM MEMBERS

ERYN TORRES

- 12+ years of experience as a geologist and project manager for a variety of projects and clients with subsurface problems, including four years of CCUS projects and three years of oil-and-gas field development.
- Extensive experience with Class VI permit applications (more than 15 to date), CARB LCFS applications, MRV plan development, and various subsurface analyses for geologic carbon sequestration.
- Experience with subsurface modeling, including the evaluation of petroleum and CO_2 storage reservoirs, natural resources, groundwater aquifers, and monitoring and remediation of environmental contaminants.
- Currently supporting the development of several carbon capture and sequestration projects across the United States.

ANICA HAYNES

- 20+ years of experience as an environmental consultant.
- Extensive experience in managing the environmental aspects throughout the life cycle of a wide range of large capital projects.
- Experience includes development and permitting of numerous underground storage facilities in both depleted reservoirs and salt domes located throughout the Gulf Coast.
- Experience managing Class VI permitting process and continued development of several carbon capture and sequestration projects across the United States.

BEN BELGARDE

- 18+ years of experience as a geoscientist specializing in subsurface characterization through the integration of geologic and geophysical datasets while working for oil and gas operators, including 2 years of consulting.
- Experience spans diverse mix of geologic settings, teams, roles, regulatory requirements, standards, and stakeholders. Worked with multidisciplinary teams to advance upstream production, development, exploration and CCS projects located domestically and internationally.
- Skills include reservoir and geohazards characterization, seismic interpretation, data integration, 3D static modeling, geologic operations and project management.

Geosyntec Consultants is a consulting firm with engineers, geologists, environmental scientists, and other technical and project staff based in offices throughout North America, and at select locations in the United States, Canada, the United Kingdom, Ireland, Sweden, Spain, Finland, the United Arab Emirates, Saudi Arabia, and Australia. We address new ventures and complex problems involving our environment, natural resources, and civil infrastructure.

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