

# OIL & GAS INDUSTRY SERVICES

**Engineering and design services to provide value and reduce risk across the entire lifecycle of your oil and gas infrastructure.**





HGA provides comprehensive engineering, design and construction management services for pipelines, facilities, compressor stations, treating facilities, processing facilities, wellpads and terminals for the oil and gas industry.



Building upon their extensive resumes, our team of engineers, subject matter experts and project managers applies best practice to create functional and efficient ways to safely and efficiently deliver hydrocarbons to market. For over 20 years, we have successfully executed both small and major capital projects across the full spectrum of upstream, midstream and downstream projects. Our seasoned experts understand the ever changing regulatory and design requirements and ensure the safe and reliable solution to meet your business objectives.

Our depth and extensive expertise are designed to provide maximum value to our customers' projects, from engineering design and technology to consultancy, as well as construction management and other value-added services. We offer a complete range of design and engineering services in these areas:

- Crude and natural gas pipelines
- Transmission
- Midstream
- Gathering
- Facilities – compression, treating, pump stations, processing
- Interconnects and meter stations
- Underground storage
- Terminals



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### Upstream

HGA engineers have been designing end-to-end services for upstream facilities for the oil and gas market. Our accomplished engineering team specializes in both conventional and unconventional fields to help you make more informed decisions throughout planning your wellsite facilities. We provide engineering for all facets of site layout design, from conceptual planning through final design. We specialize in site selection, surveying, mechanical, electrical, and structural engineering, as well as process and controls, construction management and environmental services for well pad design. HGA routinely takes responsibility for construction of well pad surface facilities, production pads, infrastructure, and erosion control measures. We can also assist with wellsite layouts, develop as-builts for existing facilities, and design pipeline connection and metering facilities leaving your wellpad. We understand the local regulations and requirements to keep your site development on track and compliant.

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### Midstream

Projects in the midstream world are fast-paced with changes in direction occurring sometimes daily. HGA understands the pace and the demands of midstream projects and have helped numerous customers with their needs in a timely, efficient and flexible manner. We have proven experience in developing complete greenfield pipeline systems with related facilities. We understand the complex challenges presented on integrating new systems into existing systems. The bottom line is that HGA can bring value to your midstream project.



### Transmission

HGA has been providing the design and development of major transmission pipelines and facilities for more than 20 years. HGA understands the regulatory environment of interstate pipeline projects and is familiar with all major facets of the necessary documentation and design services that are inherent in FERC-regulated projects. Our experience encompasses engineering design services on a number of transmission compressor stations and other related facilities. The HGA portfolio of transmission services offers a unique combination of design expertise, proven construction package, and expert support that will minimize change orders in the field, resulting in reduced construction costs.

### Downstream

HGA's multi-faceted downstream services provide a full range of projects ranging from new development to renovation of existing facilities, revamps, and debottlenecking. Our process team provides PRV validation services for a number of our customers. We provide engineering design, planning, and consulting services to help our clients lower costs and increase production for refinery and petro-chemical projects of all sizes. Our downstream services routinely include technical evaluation, process simulation and optimization, as well as full scope engineering design and construction management services. We can also provide in-plant reviews of major processing units and utility systems to identify yield benefits and energy savings.

### Pipeline

HGA specializes in providing engineering consultancy and construction management services for onshore pipeline infrastructure. Our pipeline planning, engineering and consulting services provide you with the information and solutions to make optimal decisions. We also offer a full range of engineering design, project management, pipeline inspection, and construction management services to meet your pipeline objectives.

HGA Pipeline Services provides:

- Right-of-way acquisition
- Survey services
- GIS
- Geospatial services
- Engineering and design
- Pipeline construction management
- Inspection services
- Procurement

### Gathering and Treating

HGA offers broad engineering services that bring added value to gathering and treatment infrastructure projects. Our expertise covers developing and executing projects such as gas field development, compression stations, gas treating plants and processing facilities. As a one-stop-design-shop, HGA offers all services necessary from scope planning, engineering, procurement, and construction management of grass root plants, plant expansions, and retrofit projects. We have



engineers that cover all major engineering disciplines including process, mechanical, piping, instrumentation, electrical, control system integration, civil/structural, project management, and project controls.

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### **Compression**

HGA works with our clients to develop new facilities, renovate existing facilities, and improve gas operations in greenfield and brownfield expansion facilities. In order to help our clients, our consultancy team focuses on your challenges—so you can make the right decision possible to achieve your goals. We deliver turnkey engineering design services from concept selection and FEED through to detailed engineering, procurement, and construction management.



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### **About Us**

Over the past two decades, HGA has built an unrivaled culture by listening to our clients, leveraging our experience and delivering on our commitments to an extensive portfolio of customers throughout the oil and gas industry. We seek long-term partnerships with our clients. Today, we serve multi-national corporations and many private oil and gas companies, and have a proven track record managing, cost-driven large projects. Our oil and gas experts have conducted hundreds of major projects—from upstream facilities, midstream pipelines and facilities, to downstream--adding valuable insight that has helped to improve performance and reduce risk across the entire lifecycle of oil and gas infrastructure.

For more information on how HGA can help you with your next pipeline project, contact your HGA representative, email [information@hga-llc.com](mailto:information@hga-llc.com) or visit [www.hga-llc.com](http://www.hga-llc.com).



## OUR TRACK RECORD:

### NextDecade's Rio Grande LNG Project

HGA was contracted for project management, engineering, surveying, land services, project controls and cost estimating for the FEED services for NextDecade's Rio Grande LNG export project. HGA managed the massive pipeline expansion planning of 130 miles of dual 42-in. diameter natural gas pipe along with multiple compression and metering facilities to bring natural gas from the Permian Basin and Eagle Ford shale to the Port of Brownsville via the related Rio Bravo Pipeline.

### Williams Compression – The Program

Since the end of 2011, HGA has worked on a multitude of projects for Williams Gas Pipeline / Transcontinental Gas Pipe Line, which has helped develop a strong working relationship between our two companies. As we continued to strengthen this relationship with Williams, they began to seek HGA for additional engineering services with the majority of this work executed in parallel or staggered efforts. As you can see below, we have executed multiple large compression greenfield and brownfield projects for Williams, and they continue to trust HGA as an extension of their engineering group.

### Freeport LNG

Freeport LNG contracted HGA to provide engineering and design, rights of way services (ROW), and FERC filing support for their proposed Train 4 – 42-in. pipeline project located on Quintana Island, near Freeport, Texas. The scope of work included providing a proposed centerline with and a corresponding constructability review. Once the route was approved, HGA provided ROW agents to contact the impacted landowners to obtain permission for FLNG's environmental consultant to survey. Using this survey data, HGA created GIS-based preliminary alignments with the proposed workspace to allow the environmental consultant to calculate the various environmental impacts. Other FERC filing support included preliminary HDD designs and site-specific drawings.

Upon completion of the FERC filing, FLNG requested HGA to provide detailed engineering and land acquisitions services for the project. The team then provided land agents to obtain civil survey permission, the creation of acquisition plats and conducted landowner negotiations. This effort included detailed alignment sheets and fabrication drawings for all above ground facilities. Another key component of HGA's excellent detailed engineering performance was the 10% TIC cost estimate that HGA provided for the project.

### G2, LNG

HGA served as the owner's representative for G2's LNG \$11 billion LNG export project in Cameron Parish, Louisiana, by overseeing EPC contractor work, project controls – cost control/planning, and coordinating stakeholder interfaces. HGA also facilitated the pre-FEED engineering work. The project also included providing the gas supply pipeline design services. HGA also has a principal on the G2 management team.

### Anadarko Maverick Basin Development

HGA provided the project management, detailed engineering, field services, procurement, and project controls for a gathering system in south Texas totaling 230 miles of pipeline ranging from 6- to 30-inch, along with multiple compression facilities and a central oil and liquids handling facility for the Maverick basin development.

**HGA**

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