

Our engineers can provide optimized pipeline, pipeline facility & compression solutions to help maximize your project's operational performance and associated rate of return.

THE CURRENT AND EMERGING UNCONVENTIONAL PLAYS CONTINUE TO PROVIDE CHALLENGES IN THE HYDROCARBON TRANSPORTATION, STORAGE AND PROCESSING INDUSTRIES. EDG'S CAPABILITIES IN THESE AREAS HAVE PROVIDED POSITIVE RESULTS AND WE ARE READY FOR YOUR CHALLENGING PROJECTS AND OPPORTUNITIES IN THE FUTURE.

PIPELINES AND RELATED FACILITIES

Decades of experience, both onshore and offshore, have provided EDG, Inc. a proficiency in pipeline design and analysis

- Liquid (49 CFR 195 & B31.4) and gas (49 CFR 191 / 192 & B31.8) designs
- Pipeline interconnects, laterals, line looping, and relocations
- Span and buckling analysis, hydraulic studies, and surge analysis
- On bottom stability, shore approaches, and risers for offshore
- Permitting, bidding, and construction support
- Pipeline facilities including boosting, mainline sectionalizing valves, gas conditioning, and treating
- Filters, scrubbers, slug catchers, liquid and gas metering, launchers and receivers
- LACT units, SCADA systems, corrosion monitoring and cathodic protection systems



PIPELINE BOOSTING STATIONS



EDG has extensive knowledge of the equipment and technologies that comprise an efficient and flexible boosting station. From remote satellite stations, to large capacity boosting facilities, we have the capabilities to provide solutions for any scale.

- Optimization of new or existing installations for adaptability to changing needs
- Compressor package/system designs utilizing API 11P, 617, 618, 619, 688, and ISO 13631
- Pump designs utilizing a broad range of both ANSI B73.1 and API 610 equipment
- Practical application of WHRUs to enhance facility efficiency and performance
- Extensive experience with acoustical and mechanical vibration studies
- Wide-ranging knowledge of mechanical seals and systems meeting the requirements of API 682



PROCESSING FACILITIES

Development of oil and gas processing facilities and equipment has been at the core of our business since EDG's inception over 33 years ago.

Oil & Condensate Treating:

- Primary separation, oil BS&W treating, desalting, and sour oil treating
- Gathering sites, condensate stabilization, storage, and LACT units
- Metering, shipping, and loading facilities
- Compression and vapor recovery
- Flaring/Incineration

Gas Conditioning & Treating:

- Contactors, reboilers, scrubbers, filters, heaters, and hydrate inhibition equipment
- Gas dehydration equipment including glycol units, mol sieve units, desiccant, JT units
- Gas sweetening (H₂S and CO₂ removal) - membranes, amine units, EOR systems
- NGL recovery and storage
- Compression and vapor recovery



TERMINALS AND STORAGE

EDG has the personnel and knowledge to tackle any project with a dedicated and experienced team of Marine and Terminals engineering and design professionals.

- Gathering, loading, transport, measurement, and storage of gas and liquids
- Cavern leeching and injection facilities
- Above-ground storage tanks (API 620, 625, 650, 653, and 12F)
- Venting and gas blanketing system design and analysis
- Measurement, loading, and shipping infrastructure for pipelines, truck, rail, barge, or tanker
- Loading and unloading dock design, inspection, and remediation

SAFETY

Facility Safety is a top priority in design and often drives facility layout and size.

- API RP-14C
- API 521 & CCPS Guidelines
- ANSI / ISA 84.00.01, IEC 61511 design
- SIL assessment and verification
- Fire and gas detection systems
- PHA, SAFE, HAZOP studies

CONTACT

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