



# TERMINALS, METERING FACILITIES, AND PUMP STATIONS

## OUR SOLUTIONS

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EN Engineering's team of professionals has extensive experience providing a full range of engineering design services for marketing and pipeline facilities. Our expertise includes design and operations for pipeline terminals, marine and truck terminals, pump stations, custody transfer metering, and gathering and midstream facilities. Our professional engineering consultants provide initial project development and FEED studies, as well as detailed design and construction support. Whether we are supporting existing operations with modification of facilities or designing grass roots facilities, we see ourselves as an extension of your engineering department and know what it takes to operate what we design. We understand the complex concerns that a client faces on a day-to-day basis. From terminals, to

pump stations, to metering facilities, we have the experience necessary to understand your concerns, and are focused on helping you meet your project goals and objectives.

As an industry leader in pipeline and facility design, EN Engineering takes a comprehensive look at all aspects of the design, including mechanical, civil, structural, electrical, instrumentation and controls, automation, cathodic protection, and PSM compliance. Our team will help you complete a system-wide study to determine which design strategy will best suit your needs, while meeting critical safety regulations. EN Engineering provides comprehensive engineering, consulting, and automation services to pipeline and terminal companies.

## EN ENGINEERING'S CAPABILITIES

- Project management
- Scheduling and cost control
- Conceptual design
- FEED studies
- Detailed engineering
- Procurement
- Equipment and material specifications
- Construction and commissioning support
- 3D scans and as-builts
- Project close outs
- Hydraulic and surge analysis
- HAZOPs, PHAs and PSM compliance
- Pipeline and marketing terminals
- Marine and trucking terminals
- Pump stations
- Metering facilities
- Gathering and midstream facilities

## EN ENGINEERING SERVICES

- Site selection
- Permitting assistance
- Terminal layouts and design
- Truck bay designs
- Manifolds
- Butane blending
- Biofuels
- Product blending
- System/Facility hydraulics and surge analysis
- Surge suppression systems
- Mechanical, civil, structural design
- Process designs
- Automation and controls
- PLC and equipment programming
- Cathodic protection
- Fire and safety designs
- PSM compliance

## PROJECT EXPERIENCE

- Grass root facilities
- Facility modifications and upgrades
- Facility and system expansions
- As-builts of existing facilities
- Pipeline and marketing terminals
- Pump and meter stations
- Gathering and midstream facilities
- Crude oil, refined products, biofuels, NGLs, and LNG

## PROJECT MANAGEMENT

- FEED studies
- TIC cost estimates
- Detailed design
- Operations support
- Procurement
- Construction packages
- Commissioning
- Construction support
- As-builts

