



# Pipelines & Terminals

Innovative expertise designing energy systems.

Our experts have completed over 1,000 pipeline and terminal projects with major petroleum and gas companies. SSOE's experience spans projects all over the world of any size, scope, and level of complexity from system designs, retrofits, and relocations to terminals and stations. This experience translates to an innovative approach of creative problem solving. In working through countless project challenges, we've gained the knowledge to develop better—and often unique—options that save you time, trouble, and money.

*"It's critical that our project teams work together seamlessly and follow our processes. That's one reason we've worked with SSOE on several projects. Their designers and engineers have been reliable and professional. SSOE consistently met its deadlines, which made it easier to realize our goal of working within budgets and schedules."*

**– Ted Blum and David Mack, Terminal Engineering Supervisors, Marathon Petroleum Company**

## TOP 15 ENGINEERING / ARCHITECTURE FIRM

Top 15 Engineering / Architecture Firm for the past 8 years (BD+C)



## EXPERTS PUBLISHED & PROVEN

Our power experts have been published in numerous industry publications discussing energy trends, cost-effective improvements, and safety

## \$48M COST SAVINGS

We've documented more than \$48 million in savings to energy / power clients





## CLIENTS

ANR Pipeline Company  
Consumers Energy  
DTE Energy  
EP Energy  
Enbridge  
EPCO  
Great Lakes Gas  
Transmission  
Magellan  
Major Pipeline  
Marathon Petroleum  
Company  
Merit Energy  
Michigan Consolidated  
Gas  
Owens Corning  
Shell  
Texas Gas Transmission  
Vectren Corporation  
Whiting Petroleum  
Corporation



## PROJECT TYPES

- Asphalt terminals
- Cast iron / bare steel replacement
- Compressor stations
- Electrical infrastructure upgrades
- Gas distribution system design
- Mainline valve stations
- Metering stations
- New stations
- Odorization system
- Pipeline relocation
- Pipeline terminals
- Power system evaluations / upgrades
- Product storage terminals
- Regulator stations
- Retrofits / upgrades to pumping stations



## TECHNICAL SPECIALTIES

- Above ground storage tanks
- Anomaly remediation
- Asphalt blending systems design
- Asphalt / petroleum loading and unloading
- Asphalt vapor abatement system design
- Biodiesel / ethanol storage
- Blast resistant building construction
- Commissioning and start-up
- Compression / pumping station design
- Conceptual design
- Construction management
- Cost estimating and budgeting
- Distribution system mapping
- Electrical power distribution upgrades
- Electrical power quality and reliability
- Environmental compliance
- Equipment specifications
- Feasibility studies
- Fuel / biofuel blending
- Heat trace systems
- Launcher / receiver design
- Load rack fall protection
- Noise control
- Pipeline design
- Pipe stress analysis
- Pipeline integrity
- Polymerized asphalt production facility design
- PLC and HMI programming
- Process hazard reviews
- Process instrumentation and controls
- Process simulation
- Procurement
- Project close-out / as-built drawings
- Project management
- Project scheduling
- Safety improvements integration
- Storage field gas processing
- Systems integration, control system, and SCADA upgrades
- Terminal facility
- Terminal piping systems design