



petroleum

⌘ ssoe<sup>®</sup>. making clients successful.



## **Why SSOE?** The SSOE Experience is the combination of our Value Promise and Great Client Service that results in trusted relationships.

To consistently exceed clients' expectations is a common goal in our industry. So, how is our promise of outstanding performance any different from others? We have proof. Greater than 98% of clients we surveyed would recommend SSOE Group to a colleague. And more than 150 of our clients have been with us for at least 20 years. These endorsements are a result of our Great Client Service—our corporate-wide commitment to understand and exceed your expectations and deliver unexpected benefits.

For decades, we've found ways to deliver greater value to clients. You can count on us to deliver high quality projects, on schedule, with fewer problems, and for lower total cost to save you time, trouble, and money. Through this Value Promise SSOE returned 105% of our fee to clients in the form of project savings over the last 5 years.

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***"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, Terminal Engineering Supervisor  
Marathon Petroleum Company

David Mack, Terminal Engineering Supervisor  
Marathon Petroleum Company

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## Advantages of our Petroleum Services

- SSOE has an in-house staff of engineers, technicians, and project managers dedicated to serving the unique needs of the petroleum industry. Many of them have first-hand experience working in a petroleum environment, so they bring to projects a clear understanding of the unique challenges found in petroleum operations.
  - SSOE's team uses the latest software to quickly respond to project challenges and to develop cost effective solutions for our clients. These software packages develop:
    - Process simulations
    - Smart P&IDs
    - Pipe stress analyses
    - Structural analyses
    - Project schedules
    - Electrical power distribution plans
  - No matter how broad the scope of your project, we'll deliver an integrated solution including infrastructure, petroleum process engineering, project management, and facilities design. Having the full range of capabilities in-house enables more efficient project execution.
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## Technical Specialties

- 3D CADD modeling
- Arc flash study
- Commissioning and start-up
- Cost estimating and budgeting
- Detailed design
- Environmental compliance
- Equipment specification and procurement
- Feasibility studies
- Fire protection
- Front-end concept engineering and studies
- Hazardous and flammable storage
- Hazardous area classification
- P&ID development
- Pipe stress analysis
- Pipe supports and foundations
- Power distribution
- Power system coordination
- Process automation, programmable logic controller (PLC), and human machine interface (HMI) programming
- Process engineering
- Process hazard reviews
- Process instrumentation and controls
- Process simulation
- Pump / Equipment sizing
- Support facility design
- Systems integration, control system upgrades
- Vessel and tank concept design

## Project Types

- Blast resistant building construction
- Environmental compliance
- Facilities siting
- Infrastructure (utilities, roads, sewers, power)
- Inside battery limit improvements
- Off-site modifications and additions
- Pipeline design
- Process improvements
- Refining
- Retrofits / Upgrades
- Terminal operations (asphalt, marine, light products)
- Risk management
- Security
- Tank farm improvements
- Turnaround services
- Wastewater treatment

## Locations

Alliance, OH  
Atlanta, GA  
Birmingham, AL  
Chandler, AZ  
Cincinnati, OH  
Columbus, OH  
Denver, CO  
Hamburg, Germany  
Huntsville, AL  
Kalamazoo, MI  
León, Mexico  
Lima, OH  
Midland, MI  
Monterrey, Mexico  
Mumbai, India  
Nashville, TN  
Omaha, NE  
Penang, Malaysia  
Portland, OR  
Raleigh-Durham, NC  
Riverside, CA  
St. Paul, MN  
Santa Clara, CA  
Shanghai, China  
Toledo, OH  
Troy, MI  
Washington, DC

## Markets

Energy  
Life Sciences  
Manufacturing / Process  
Telecommunications

## Services

Architecture  
Construction management  
Data / Fire / Security  
Energy consulting  
Engineering  
Master planning  
Procurement  
Project / Program management  
Site selection  
Tool install  
Virtual Design and Construction

## Rankings

*Engineering News-Record (ENR)*

- Top 10 Manufacturing Design Firm for the past 5 years
- Top 20 Chemical Plant Design Firm for the past decade
- Top 25 Industrial Process Design Firm for the past decade

*Building Design + Construction (BD+C)*

- Top 10 Engineering / Architecture Firm for the past 4 years
- Top 10 Industrial Engineering Firm for the past 4 years
- Top 15 BIM Engineering Firm for the past 5 years

Named "Best AEC Firm to Work For"  
*(Building Design + Construction)*

Named a "Great Workplace"  
*(Great Place to Work®)*

## SSOE Facts

- SSOE was founded in 1948 and currently has more than 20 locations worldwide.
- We are a global project delivery firm for architecture, engineering, and construction management, with projects in 40 countries.
- SSOE offers program management services from design through construction, to commissioning and start-up, for seamless project delivery.
- SSOE's focus is using the appropriate project delivery method for your goals, including Virtual Design and Construction (VDC), which brings our clients better and faster results through more integrated teams and advanced technologies. Even when a more traditional delivery model is used, you'll see significant benefits from the collaboration strategies and technological capabilities our leadership in VDC necessitates.



[www.ssoe.com/petroleum](http://www.ssoe.com/petroleum)



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