



ethanol

⌘ ssoe®. 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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## Advantages

- SSOE has completed numerous ethanol projects across the U.S., turning out a minimum of 55 million gallons per year, per facility.
  - Our approach is flexible and driven by your unique project requirements. We can complement your process technology with a balance of plant engineering to deliver a complete engineering package.
  - Our experts are making an impact through ethanol and biodiesel production, procuring and installing panels to collect solar energy, and shaping the future of the energy market through research and development facilities for fuel cells.
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## 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.
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## Technical Specialties

SSOE is providing complete EPCM services for numerous biodiesel facilities throughout the U.S.

### Ethanol

- Balance of plant (BoP) design
- Clean-in-place (CIP)
- Dried distiller's grain (DDG) handling
- Electrical power generation
- Fermentation
- Flammable liquids handling
- Mash preparation
- Wet cake drying

### Related services

- Air permitting support
- Budgetary cost estimating
- Building design for classified areas
- Bulk storage and handling

- Due diligence and entitlement
- Earthwork, grading, and stormwater management
- Electrical power and site lighting design
- General layout and geometrics
- Landscaping
- Off-site infrastructure improvements
- Opinions of probable construction cost
- Permitting
- Project specifications
- Rail design
- Roadway and parking pavement design
- Secondary containment plans and details
- Site selection, conceptual and preliminary planning
- Soil Erosion and Sedimentation Control (SESC)
- Stormwater Pollution Prevention Plans (SWPPPs)

- Structural design
- Traffic control signage and pavement markings
- Traffic studies and signal design
- Utility provider interface and engineering
  - Sanitary
  - Water
  - Telephone
  - Gas
- Water treatment system design
- Weigh scale

## Representative Clients

- Buckeye Biopower
- Glacial Lakes Energy
- Greater Ohio Ethanol (now Guardian Lima)
- Lakota Biofuels
- Vision Fuels

## Locations

Albany, NY  
Alliance, OH  
Atlanta, GA  
Birmingham, AL  
Chandler, AZ  
Chengdu, China  
Cincinnati, OH  
Columbus, OH  
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  
Shenzhen, 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 20 Chemical Plant Design Firm for the past decade
- Top 100 Green Design Firm for the past 9 years

*Building Design + Construction (BD+C)*

- Top 10 Engineering / Architecture Firm for the past 5 years
- Top 10 Industrial Engineering Firm for the past 5 years
- Top 15 BIM Engineering Firm for the past 6 years

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

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