



glass

⌘ 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 submitted savings ideas equal to 105% of our fee to clients in the form of project savings over the last 5 years.

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## **Advantages to the Glass Industry**

- Our experience includes decades of work with every major glass manufacturer on every aspect of glass plant development in 12 different countries. In the past five years alone, we've completed hundreds of glass projects.
  - We performed complete process engineering for the first LEED® Gold certified insulation facility in the United States.
  - We have more than 50 years of experience in custom furnace design.
  - Our staff knows and understands glass plants and we're able to execute all engineering disciplines needed for glass projects in-house.
  - SSOE's Quality Systems Policies and Procedures comply with ISO 9001:2008 standards.
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## SSOE Facts

- SSOE is a global project delivery firm for architecture, engineering, and construction management.
  - Founded in 1948 and currently has more than 20 locations worldwide.
  - 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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## Experience

- Arc flash studies and mitigation
- Automotive glass
- Batch house systems and delivery
- Commissioning and start-up
- Cooling water systems
- Cullet systems
- Cullet water systems
- Curing systems
- Electrical / Control systems
- Energy recovery and reduction
- Environmental engineering
- Fabrication, cutting systems
- Forming systems
- Furnace combustion systems
- Furnace control, power, and boost systems
- Furnace design and structural engineering
- Furnace environmental systems
- Furnace rebuilds
- Furnace structural
- Machine design
- Material handling and packaging systems
- Mechanical utilities
- Power electrical distribution and grounding
- Process automation, programmable logic controller (PLC), and human machine interface (HMI) programming
- Raw material unload systems
- Substations
- Systems integration, control system upgrades
- Tempering and annealing systems
- Wind cooling systems

## Glass Industries

- Container glass
- Fiberglass
- Float glass
- Residential shingles
- Specialty glass

## Representative Glass Clients

- AP Technoglass
- Ardagh Group
- Custom Deco
- Glasstech
- Guardian Industries
- Holophane
- Hollingsworth & Vose
- Johns Manville
- Kimble Chase
- Knauf Insulation
- Libbey
- Lilja Corporation
- Owens Corning
- Owens-Illinois
- Pilkington
- Saint-Gobain
- Thomson Consumer

## 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  
Machine design  
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 6 years
- Top 20 Chemical Plant Design Firm for the past decade
- Top 25 Industrial Process Design Firm for the past decade

*ENR Global Sourcebook, 2016*

- Top 35 International Manufacturing Design Firm for the past 5 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®)*



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