



alternative energy

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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## Advantages

- Our alternative energy team is made up of production experts and LEED® accredited professionals with backgrounds in the food, glass, and petroleum industries as well as specialists with strong resumes in research-driven fields like chemical and pharmaceutical. This experience ensures your processes and facility will incorporate the best technology available today with the flexibility to accommodate growth and change in this evolving industry.
  - SSOE's expertise includes comprehensive services for the fuel cell, solar, and wind energy supply chains, biofuels, and other emerging technologies. In fact, we've been a Top Green Design Firm for the past 8 years (*ENR*). Our alternative energy clients have seen the benefits of that experience—millions of dollars of documented savings.
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**“SSOE is an exceptional firm. In almost two decades of work involving construction of research facilities, I don’t think I’ve met a better group. I am a University of South Carolina faculty member who has served as liaison between our science and engineering researchers and the planners, engineers, architects, and contractors who design and build their facility. Although the phrase is badly overused, SSOE is ‘user friendly.’ They are willing to share their expertise and to engage the end users in the planning stages, a process that creates a far superior product. SSOE has performed the MEP and fire protection design for a 125,000 SF state-of-the-art fuel cell research facility. They have been with the project since programming; they met with the researchers, listened to their needs, and were able to suggest practical solutions. They are exceptionally knowledgeable, understand deadlines, and are clearly dedicated to providing the best possible facility. Most importantly, their definition of ‘best facility’ is not the most expensive or impressive, but rather the facility that will best support the research.”**

Professor Scott Goode, Ph.D., Dept. of Chemistry and Biochemistry  
University of South Carolina



## Technical Specialties

- Cleanroom technology
- Conservation of materials and resources
- Energy efficiency and renewable energy
- Ethanol balance of plant design
- Front end engineering and feasibility studies
- Hydrogen storage and fuel cell research
- Indoor environmental quality
- LEED® certification
- Material handling
- Power generation and distribution, peak shaving, and cogeneration
- Process design for hydrogen production, distribution and storage
- Project management
- Proprietary biodiesel process
- Recycling and chemical separation
- Safeguarding water and water efficiency
- Sustainable facility design and evaluation
- Sustainable site selection and planning

## Representative Clients

### Ethanol and Biodiesel

- American Biodiesel
- Blue Earth Biofuels
- Lakota Biofuels
- Memphis Biofuels
- Solscient Energy
- Wind Energy Corporation

### Fuel Cell

- GrafTech International
- University of South Carolina
- University of Toledo

### LEED® Facility Design

- Honda of America
- Toyota
- University of South Carolina

### Solar

- First Solar
- Xunlight

## Project Types

- Battery
- Biodiesel production
- Biomass
- Coal gasification
- Ethanol production
- Fuel cell
- Hydro
- Hydrogen
- Landfill gas
- LEED® facilities
- Solar energy component production
- System integration
- Waste to energy
- Wind energy

## 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 100 Green Design Firm for the past 8 years

*Building Design + Construction*

- Top 10 Engineering / Architecture Firm for the past 4 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/altenergy](http://www.ssoe.com/altenergy)



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