



power and energy

⌘ ssoe®. making clients successful.



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

### **Energy Consumption: Your Albatross?**

For most companies, energy consumption is a significant cost. Like many companies you probably realize there is much you could do to reduce it — from tighter conservation measures to significant alterations of your energy-hungry processes. You might have wondered if generating your own power is a wise option. You'd be willing to take action, but wonder where to start and if you can afford the cost. In the meantime, equipment updates, whether needed or mandated, are draining your resources, as are increasingly bigger energy bills.

### **Environmental Compliance: Your Concern?**

Time is up. The deadlines for complying with the EPA's new emissions regulations are fast approaching. If your emission levels or condition of your boilers require it, you could be spending money just to bring them up to standards, instead of on a more comprehensive, long-term solution. This is an opportunity to take a critical look at your sources of energy in the future, both from an environmental and cost perspective.

### **This Is Where We Come In**

Helping clients sort out these issues, develop a plan, and implement the solutions is the day-to-day focus of our energy team. If your goal is to lower your cost of energy for example, we'll explore all viable options given your process, facility, current equipment, future needs, and priorities. We are helping an increasing number of our clients discover the advantages of capturing wasted heat and self-generation of energy. We can determine if it is cost effective to convert your waste BTU into a usable BTU. The answer to an air quality problem may lie in changing from one fuel source to another. You can rely on us to figure that out.

If your energy-generating equipment needs repair, replacement or reconfiguration, we have the expertise to deliver the solution. And you can hand over your air quality assessment, monitoring plan, and reporting to our environmental experts.

## Advantages of our Power and Energy Services

- We are process engineering experts, with experience in a wide range of markets. Our power / energy team will work elbow to elbow with this group to formulate energy solutions that are designed for your specific process requirements. If you have worked with an SSOE engineering team in the past, we will draw on their knowledge of your business processes and standards in generating the appropriate solution.
- Our dedicated power team is part of our comprehensive staff. Having a broad range of engineering and construction management disciplines in-house is the prerequisite to offering fully integrated, beginning to end solutions to your power and energy needs.
- We have worked with more than 40 fuel sources and apply this valuable knowledge when assessing the potential to repurpose waste to generate energy.
- Your needs may be basic — involving easily implementable conservation measures — or you may require assessment, planning, and implementing large scale changes to your power generation and consumption. Our power team is capable and eager to provide quality services on any scale of project.
- Our goal is to save you a significant portion of your energy costs that would exceed our fees.



### Why SSOE?

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.

### Project Types

- Air pollution control systems
- Arc flash studies / prevention
- Boiler upgrades / replacements
- Cogeneration
- Combustion systems
- Control system upgrades
- Electrical generation
- Energy conservation and audits
- Energy master plans
- Equipment evaluation
- Fuel source evaluation
- Fuel switching
- Heat reclamation
- Net zero initiatives
- Peak shaving
- Rate negotiation / metering evaluation
- Regulatory compliance, monitoring, and reporting
- Renewable solutions / sustainability
- Substations
- Waste to energy plants

### Technical Specialties

- Conceptual to detailed design and construction documents
- Construction management
- Cost estimating
- Energy modeling
- Engineering studies
- Permitting
- Procurement

## 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 10 Manufacturing Design Firm for the past 6 years
- Top 25 Industrial Process 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®)*

## SSOE Facts

- SSOE was founded in 1948 and currently has more than 20 locations.
- 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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