



Energy / Power

Innovative expertise designing energy systems.



40+ FUEL SOURCES

We have worked with more than 40 fuel sources and apply this valuable knowledge when assessing potential to re-purpose waste to generate energy.

SSOE's experts are well-versed in the many sectors of the energy and power market. In addition to large-scale projects, we're the go-to resource for your specific and immediate needs such as arc flash mitigation, disturbance monitoring, and Balance of Plant (BoP) projects. Our commitment to value engineering, sustainability, and quality is second to none—we've documented more than \$48 million in cost savings for our power and energy clients. Working with SSOE, you will experience a team that feels like an extension of your own, focused on collaboration and bringing innovative ideas to the table.

SSOE's team works with utility, municipal, and facility power clients, as well as biomass, landfill gas, and waste energy projects. We offer a depth of knowledge in the examination of the economics and life cycle costs of traditional and renewable energy options. This analysis is applicable to power generation for utility clients, permitting for traditional and renewable fuel boilers, high voltage substation and transmission design systems, industrial and university sized boilers, as well as chilled water and utility infrastructure systems.

TOP 15 ENGINEERING / ARCHITECTURE FIRM

Top 15 Engineering / Architecture Firm for more than a decade (BD+C)

EXPERTS PUBLISHED & PROVEN

Our power experts have been published in numerous industry publications discussing energy trends, cost-effective improvements, and safety

\$48M COST SAVINGS

More than \$48 million in documented savings to energy / power clients since 2009





CLIENTS

MUNICIPAL UTILITY

American Municipal Power, Inc.

AMP Transmission, LLC

City of Dover, Ohio

City of Hamilton, Ohio

City of Hillsdale, Michigan

City of Lawrenceburg, Indiana

City of Painesville, Ohio

City of Sturgis, Michigan

Michigan South Central Power Agency

Village of Clinton, Michigan

INVESTOR OWNED UTILITY (IOU)

American Electric Power Service Corporation

Consumers Energy

Duke Energy

FirstEnergy

PRIVATE SECTOR

Chase Brass and Copper Company

Dow

Emery Industries

General Electric

Honda of America

Merit Energy

Refuse Fuels, Inc.

Sauder Woodworking Company

University of Toledo



PROJECT TYPES

- Air pollution control systems
- Arc flash studies / prevention
- Ash handling
- Balance of Plant (BoP) design
- Boiler upgrades / replacements
- Coal handling
- Cogeneration systems
- Combustion systems
- Commissioning and start-up
- Control system upgrades
- Electrical generation
- Fuel switching
- Heat reclamation
- Low / high pressure steam systems
- Net zero initiatives
- New boiler installation
- Peak shaving
- Plant upgrade analysis
- Process automation, PLC, and HMI programming
- Process instrumentation and controls
- Rate negotiation / metering evaluation
- Regulatory compliance, monitoring, and reporting
- Renewable solutions / sustainability
- SCADA upgrades
- Substations
- Structural modifications
- Substation design
- Systems integration
- Transmission and distribution
- Waste to energy plants
- Water treatment



TECHNICAL SPECIALTIES

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