



Sustainable and Renewable Solutions

⌘ **ssoe**. making clients successful.

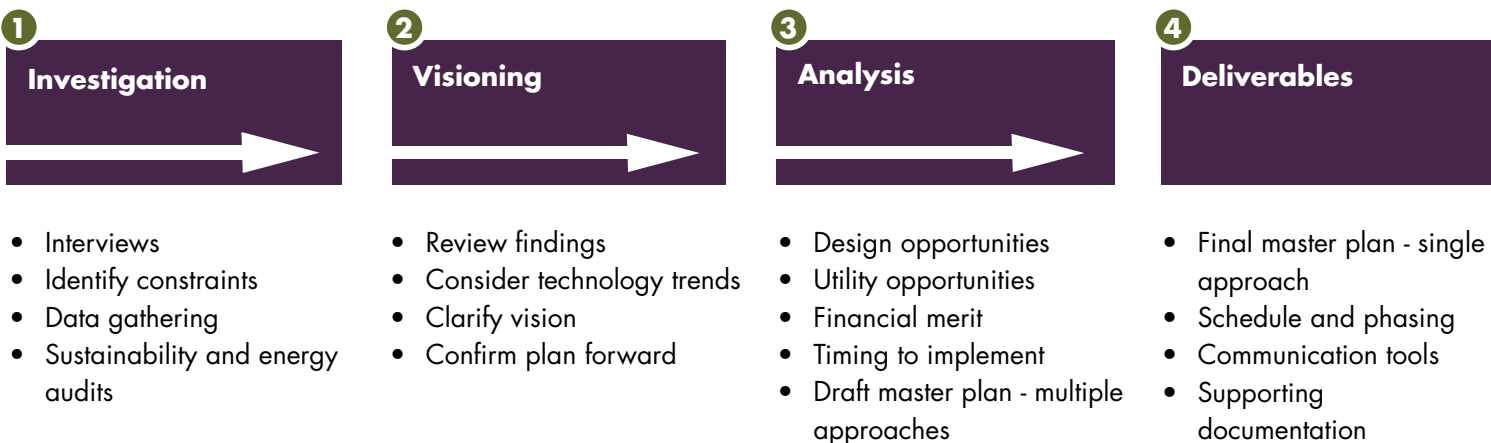
Why SSOE Group?

Sustainable design is both a corporate priority and a public expectation driving companies to look for flexible, efficient approaches to creating environmentally conscious facilities and processes. Through our Sustainable and Renewable Solutions sector, we help clients assess, plan, and execute a wide range of green initiatives—from high-level strategies such as sustainable master planning and LEED® certification to specific tasks like analyzing client utility rates.

We are uniquely qualified to be the solution. We have comprehensive design disciplines and construction management professionals in-house and we have applied them to a broad range of sustainability projects for multiple industries and types of facilities. Clients looking for a holistic approach to renewable energy, conservation, and sustainable design can find it from a single resource, SSOE. They can count on us to recognize opportunities for energy reduction that more narrowly focused resources might not. By integrating our clients' already ongoing sustainability efforts into a broader plan, they can accomplish more with less cost and greater returns on their investments.

To be of most help to the greatest number of companies, we welcome projects of any scope, from full-scale programs in multiple locations, to single services and small projects.

Master Planning Phases



Project Types

- Energy audits
- Sustainability audits
- Renewable energy
 - Biomass
 - Solar
 - Wind
- LEED® certification
- Environmental impact analysis
- Energy management systems
- Process heat recovery
- Combined heat and power (CHP)
- Peak shaving
- Utility rate analysis

SSOE Facts

- 1st nationally among Green Industrial and Manufacturing Design Firms (*ENR*, 2011)
- 10th nationally among Solar Generation Design Firms (*ENR*, 2011)
- 14th nationally among Engineering / Architecture firms (*Building Design + Construction*, 2011)
- 36th nationally among the Top 100 Green Design Firms (*ENR*, 2011)
- Multi-disciplined LEED® accredited professionals
- Responsible for the first Gold LEED® certified central utility plant in the U.S.
- Performed all of the process engineering for the only LEED® Gold-certified insulation facility in the United States
- Global experience includes projects in more than 30 countries
- 24 locations worldwide
- Our project management standards are drawn from the Project Management Institute. In fact, SSOE's goal is to have all of our project managers earn its prestigious designation of Certified Project Management Professional (PMP).
- SSOE offers project management services from conception through construction, to commissioning and start-up, for seamless project delivery
- ISO 9001 certified

Sustainable Campus Map



HORIZONTAL WIND

- Reduces power purchased

PHOTOVOLTAIC

- Reduce grid reliance

GEOHERMAL*

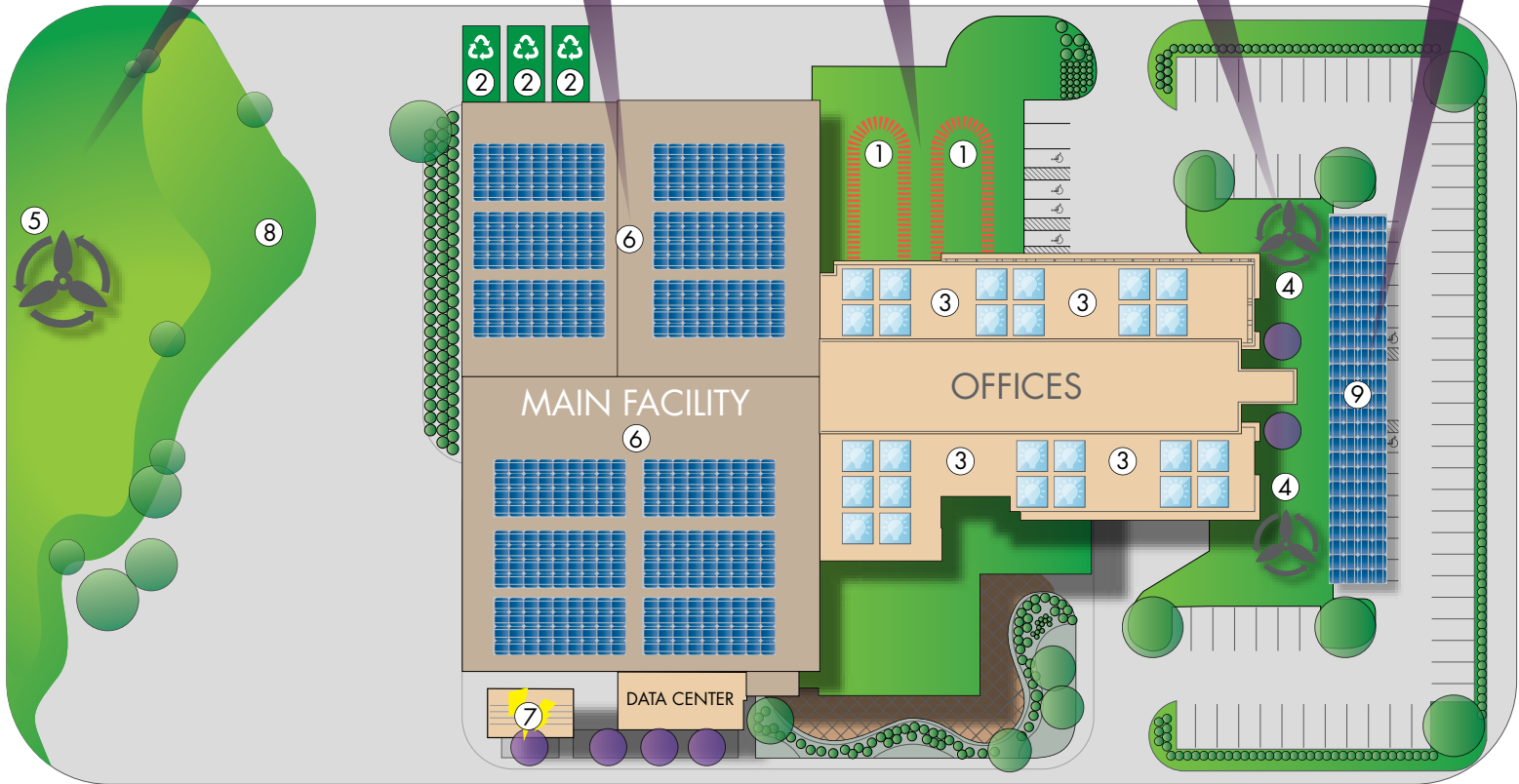
- Efficient heating and cooling

VERTICAL WIND

- Promotes sustainable culture

SOLAR AWNING*

- Visitor impact
- Charging for electric vehicles



Campus Map Key

- | | | |
|-----------------|--------------------|--|
| 1. Geothermal | 4. Vertical wind | 7. Fuel cell / Combined heat and power |
| 2. Recycling | 5. Horizontal wind | 8. Natural habitat maintained |
| 3. Day lighting | 6. Solar PV | 9. Solar awning with charging |

*Photo courtesy of DOE/NREL



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Markets

- Government
- Life Sciences
 - Education
 - Healthcare
 - Pharmaceutical
 - Science and technology
- Manufacturing / Process
 - Automotive
 - Chemical / Petroleum
 - Consumer products
 - Food
 - General manufacturing
 - Glass
- Power
 - Investor-owned utilities
 - Municipal
 - Renewable energy
- Telecommunications

Services

- Architecture
- BIM
- Construction management
- Data communication
- **Energy consulting**
- Engineering
- Loss prevention
- Machine design
- Master planning
- Procurement
- Program / Project management

Locations

- Alliance, OH
- Beijing, China
- Cedar Rapids, IA
- Chicago, IL
- Cincinnati, OH
- Columbus, OH
- Irvine, CA
- Kalamazoo, MI
- Lima, OH
- Midland, MI
- Mumbai, India
- Nashville, TN
- Newark, OH
- Omaha, NE
- Phoenix, AZ
- Raleigh-Durham, NC
- St. Paul, MN
- Sao Paulo, Brazil
- Seattle, WA
- Shanghai, China
- Tianjin, China
- Toledo, OH
- Troy, MI
- Washington, DC

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