

## Renewable Energy Technology

Sullivan offers one-stop shopping for your renewable energy project needs. We provide all-inclusive environmental, engineering, technology, and construction services. From the feasibility, planning and permitting phase, through engineering and construction, Sullivan offers unsurpassed expertise. Following are two examples of the renewable energy technologies that Sullivan can provide.

### Plasma Arc Technology

Sullivan is an integrator of plasma arc gasification, Phase4Power™. Plasma arc gasification is a technology that converts waste materials to marketable products such as electricity and fuel. Plasma arc systems outperform all other waste conversion systems and have a positive life-cycle analysis (the energy required to support the process is less than its output). Sullivan provides full project integration oversight from design to installation to operations and maintenance. Allow Sullivan to conduct a feasibility assessment to determine if Phase4Power™ is right for you.

### Solar Technology

Our energy experts have a long history with solar technology and understand the continual changes and advances in the industry. From thin-film photovoltaic panels on rooftops to solar water heaters, let Sullivan help you determine which solar application makes the most sense for your business.



ENERGY DIVISION



ENERGY DIVISION



*This blooming canola field provides oil for biofuels.*

## Sullivan Energy Services

- Renewable Energy Feasibility Assessments
- Energy Audits & Training
- Energy Security Assessments
- Sustainability Audits
- LEED Consulting
- Energy Technology & Systems Installation
- Design and Build of Energy Projects
- Plasma Arc Technology (Phase4Power™)

### Sullivan International Group

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## A Sustainable Approach

Our talented team is committed to helping businesses implement sustainability. Whatever

goal your company wants to achieve, Sullivan can help, whether it's by conducting a feasibility study, designing a customized energy-saving system, or overseeing installation of your energy upgrade.

Sustainable energy solutions create both qualitative and quantitative benefits.

- Reduced pollution from renewable fuels and alternative energy can reduce the cost of compliance.
- Less dependence on oil, and its variable and growing cost, helps the bottom line.
- An attractive return on investment and quicker payback make switching to inexpensive and environmentally friendly fuels cost-effective in both the near and distant future.
- Use of alternative energy can help achieve LEED certification objectives.

## Energy/Sustainability Audits, Feasibility Assessments

Sullivan understands that every business is different; the energy requirements of every business are different, too. Our first step in helping your business reduce energy use is to gain a thorough understanding of your current expenditures. Sullivan energy professionals start with a baseline study to document your energy usage. After this determination, Sullivan can recommend immediate, intermediate, and long-term goals for your business to achieve energy efficiency, energy security, and sustainability.

**Immediate goals** start with conservation. Sullivan's team can help your business change its energy usage by developing conservation plans. And we'll help your employees understand how little changes can have a big impact.

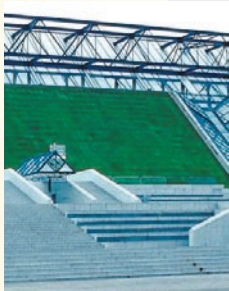
**Intermediate goals** can include low-cost, relatively simple modifications to infrastructure, including changes in lighting, space heating and cooling, and equipment use.

**Long-term goals** generally require a retrofit or more substantial change to existing infrastructure. These require a larger capital expenditure, but provide the greatest energy benefits. Examples include the installation of photovoltaic panels, solar water heating, and high-efficiency air conditioning.

## LEED Consulting

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is a certification program and nationally accepted benchmark for the design, construction and operation of environmentally responsible buildings. LEED focuses on five areas of human and environmental health:

- Sustainable site development
- Water savings
- Energy efficiency
- Materials selection
- Indoor environmental quality



Sullivan's LEED-accredited professionals have extensive experience in incorporating sustainable design into construction projects. From planning to design to construction, Sullivan evaluates a wide range of technologies, techniques, materials, and strategies to incorporate sustainability and ensure compliance while developing high-quality facilities.



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