

Clean Energy

A Shaw Sustainability Solution



Shaw helps clients meet their need for clean, reliable, and cost-effective energy. From identifying energy reduction opportunities to quantifying energy efficiency savings and environmental attributes, we are a big-picture company with a big-picture view on how to save both time and money while protecting the natural resources our clients and families depend so heavily upon. Our multidisciplinary teams of engineers, architects, planners and professionals accredited in Leadership in Energy and Environmental Design (LEED®) offer clean energy services in the areas of energy efficiency, renewable energy, alternate fuels, fleet efficiency, and value creation.

Energy Efficiency

Sometimes called the “fifth fuel,” energy efficiency offers significant economic and environmental benefits. Companies and municipalities that implement energy-efficient technologies and practices can lower their energy costs, reduce their carbon footprint, and improve air quality. Utilities that combine energy efficiency offerings with a more traditional energy mix can reduce peak demand and delay or eliminate the need for new infrastructure.

Shaw helps clients realize the benefits of energy efficiency by providing services tailored to their specific needs. Our experience includes identifying opportunities to reduce energy use, recommending the most efficient and effective strategies and helping implement them; evaluating the energy efficiency potential of defined markets for client utilities; developing a website of energy efficiency best practices for individual consumers and small businesses; identifying and securing financial support for energy efficiency projects; and analyzing the impact of voluntary and regulated energy standards on energy use.

In addition, Shaw’s LEED® accredited professionals help clients design and build high-performing, energy-efficient buildings. If LEED® certification is desired, our experienced professionals will provide LEED® assessment, implementation and certification services.

Renewable Energy

Renewable energy—hydropower, solar, wind, geothermal and biomass—reduces fossil fuel use and enhances air quality. Incorporating renewable energy on site can help a company lower its energy costs, reduce its carbon footprint and serve as a visual reminder of its environmental commitment. Producing renewable energy also creates an asset that may be sold back to the utility or, as a credit, in regulatory markets.

Our renewable energy services include helping our clients determine if renewable energy technologies can be used cost-effectively in existing buildings to supplement traditional energy sources. If it is determined that they can, Shaw identifies tax incentives and other resources available to defray installation costs. For new buildings, our LEED® professionals use an integrated design approach to evaluate the costs and benefits of integrating renewable energy technologies in the design of client buildings, and provide related project financing, implementation, and LEED® support services.

Shaw’s expert knowledge of the renewables market enables our clients to access and benefit from innovative business models, such as one that provides a fixed-price renewable electricity contract in exchange for the right to install solar panels. For renewable energy suppliers, Shaw provides plant siting, permitting, engineering, construction, and financing services.

Alternate Fuels

Our society currently relies on fossil fuel for its energy needs. The development of sustainable biofuels will benefit the society and the environment. Shaw biofuels experts have developed and built biofuel plants in the United States and abroad. Shaw can help with acquisition and use of biofuels to create a sustainable power supply.

Fleet Efficiency

Shaw planners can assist you with the routing of trucks and deliveries, vehicle use, vehicle fueling and vehicle locations.

Efficient operations can save time, fuel, and money and contribute to a sustainable operation. Innovations in fleet vehicle design, maintenance and operations have become common place within organizations structured for sustainability and Shaw can help you get there.

Reducing your carbon footprint also means saving money. Shaw has consulted for the largest companies and fleets in the world and has worked to save our clients millions of dollars through fuel reduction strategies while simultaneously reducing the permitting and compliance costs associated with impacts to natural resources largely created by fleet operations.

Value Creation

Traditionally, the value of energy efficiency and renewable energy (EERE) programs was measured by the extent to which they reduced the need for conventionally produced electricity. Reduced energy consumption could be measured in kilowatt-hours or dollars saved. Lower consumption also meant less air pollution associated with the generation of electricity, but the value of this benefit could not be measured—until recently. Today, markets exist that assign value to the less tangible attributes of EERE: the environmental and energy performance benefits of traditional EERE programs. These markets have been created in response to federal legislation capping the emission of certain air pollutants and to facilitate voluntary efforts by private entities to cap their own emissions. Markets also have been developed to facilitate compliance with state mandates that require energy companies to buy a percentage of their power from EERE resources.

All of these markets represent an exciting opportunity for Shaw's clients to generate clean energy revenue from traditional EERE projects by capturing the value of the projects' environmental and energy performance benefits. Shaw helps its clients maximize potential revenue by quantifying and verifying the environmental attributes of EERE projects and identifying eligible markets in which they can be sold. Shaw walks its clients through every step of the transaction, from EERE program development to final sale.

The Full Picture

Shaw offers other sustainable solutions to help businesses answer the need to be good neighbors and responsible stewards while conserving their resources and growing their bottom lines. Our program is a flexible, multi-phased approach, tailored to meet the individual needs of our clients.

Shaw Sustainability Solutions—The Full Picture

Sustainable Program Development

- Sustainability assessments
- Program design and implementation
- Environmental Management Systems/ Sustainability Management Systems

Waste Management

- Source reduction/pollution prevention
- Recycling and reuse
- Material life cycle analysis
- Waste audits

Clean Energy

- Energy efficiency
- Renewable energy
- Alternative fuels
- Fleet efficiency

Design and Development

- Green building design/LEED
- Green communities
- Green infrastructure/low impact development
- Sustainable redevelopment

Climate Change/ Green House Gas Emission Reduction

- Analysis
- Quantification/inventory
- Verification
- Reduction
- Performance reporting

Environmental Markets

- Carbon trading
- Nutrient trading
- Wetlands banking
- Ecosystem mitigation banking

Natural Resource Management

- Restoration
- Ecological land reuse
- Sustainable redevelopment

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