



SEBESTA  
BLOMBERG

PROVIDING SUSTAINABLE TECHNICAL  
AND BUSINESS SOLUTIONS

## RENEWABLE ENERGY

Providing renewable fuel plans which provide a sustainable fuel source

### PROFESSIONAL INTEGRITY, PROVEN EXPERIENCE AND CREATIVE SOLUTIONS

Sebesta Blomberg is a leader in the development and implementation of renewable energy technologies. We are a recognized expert in the areas of process plant design, process optimization, energy management and the evaluation, development, startup and commissioning of alternative energy systems. Our firm is committed to developing technically unique renewable energy solutions, while bringing economic return to investors. Sebesta Blomberg's engineers have proven experience in the areas of anaerobic digestion and biomass gasification systems, ethanol and biodiesel processes, highly efficient drying, heat recovery projects and a range of combined heat-and-power systems. Let Sebesta Blomberg be your choice for all your renewable energy needs; from feasibility studies and process design, to optimization and project implementation. ●

### OUR APPROACH

We begin your project with a comprehensive assessment of your current energy requirements in order to determine the best option for your facility. We evaluate your processes, systems and budget requirements and then recommend an alternative energy source that will maintain or increase your current level of operation while decreasing your long-term costs. We'll walk you through step-by-step in developing the technical specifications, business models and complete project plans that provide positive economic benefit. ●

### AREAS OF EXPERTISE

- **Project Management:** Supervising project from beginning to end.
- **Feasibility Analysis and Assessment:** Preliminary studies to ascertain the likelihood of a project's success including an analysis of possible alternative solutions and recommendations on the best alternative.
- **Business Model Development:** Studying and evaluating business processes and goals and recommending solutions to achieve clients' goals for green energy.
- **System Design and Optimization:** Conceptual design of alternative systems to maximize performance and minimize lifecycle costs.
- **Anaerobic Digestion Systems:** Thorough analysis of operational issues, design criteria, environmental considerations, available technologies and costs to design systems which generate green energy.
- **Gasification and Combustion Technology:** Using most current technology to convert fuels to useable energy.
- **Combined Heat and Power (CHP):** Using CHP technologies such as fuel cell, engine gen-set, steam turbine, combustion turbine and microturbine to create efficiencies, environmental benefits and balance capital and operating costs.
- **Syngas/Biogas Technologies to Pipeline Quality Gas:** Development of technical specifications and business models for biomass energy applications which can reduce energy costs and waste disposal, along with providing a sustainable fuel source.
- **Aggregator on Chicago Climate Exchange:** Assisting clients to obtain and trade certified greenhouse gas emission credits that provide additional economic return.
- **Energy Management Services:** Integrating the management of energy information, price and consumption to deliver an optimal energy solution.

SEBESTA.COM  
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