

Turnkey Solutions and Technology

S&B offers a complete range of Biogas solutions provided by one of the world's experts in Bio-Energy solutions driven by their long experience and multitude of their working installations. Each Biogas project is unique in its requirements and can only be realized by conducting an initial Pre-Study Design analysis taking into account all the variables including the requirements of the commercial farmer or investor. Consideration must be given to the substrate availability and its sources and the secondary revenues from heating and fertilizers. Synergies from combined animal farming and greenhouse operation may also contribute significantly. Upon a positive business plan and sustainability study, the project reaches the stage of commercial and financial evaluation by the customer.

In special cases where the final customer needs financial assistance either in the form of bridge or long term financing, S&B will endeavour to locate suitable sources of financing applicable for the project, but always in compliance with the special conditions associated with the country.

Solar & Benefit Workflow Agreement

In line with the above workflow requirements, S&B undertakes the whole process from the start up to final project completion. The workflow may be summarized in the following steps:

- STEP 1** – (a) Customer Request for Biogas Installation
(b) Biogas Questionnaire, Pre-Check and Project Qualification on Customer Substrate declaration regarding quality of substrates
(c) S&B indicative plant concept, indicative price offer and first draft of business plan
- STEP 2** – (a) Customized Pre-Study Design, Final Price Offer and Business Plan – with an applicable fee of 1,5% of the projected project turnkey value, based on customer's declaration regarding quantity and quality of substrates
(b) Complete Design and local Documentation for Permitting – with an applicable fee of 5% calculated on the actual project turnkey value
- STEP 3** – Construction and Commissioning

Operation & Maintenance

S&B will support the customer for the immediate operational lifetime even after the initial warranty period and commissioning, being present for his subsequent concerns, whether technical or commercial. Our company's Operation & Maintenance Division will continue to provide the necessary preventative and remedial maintenance for all Biogas subsystems and support the customer for all his technical and operational concerns.



Biogas Installations

For rural and industrial farmers

Biogas Installation

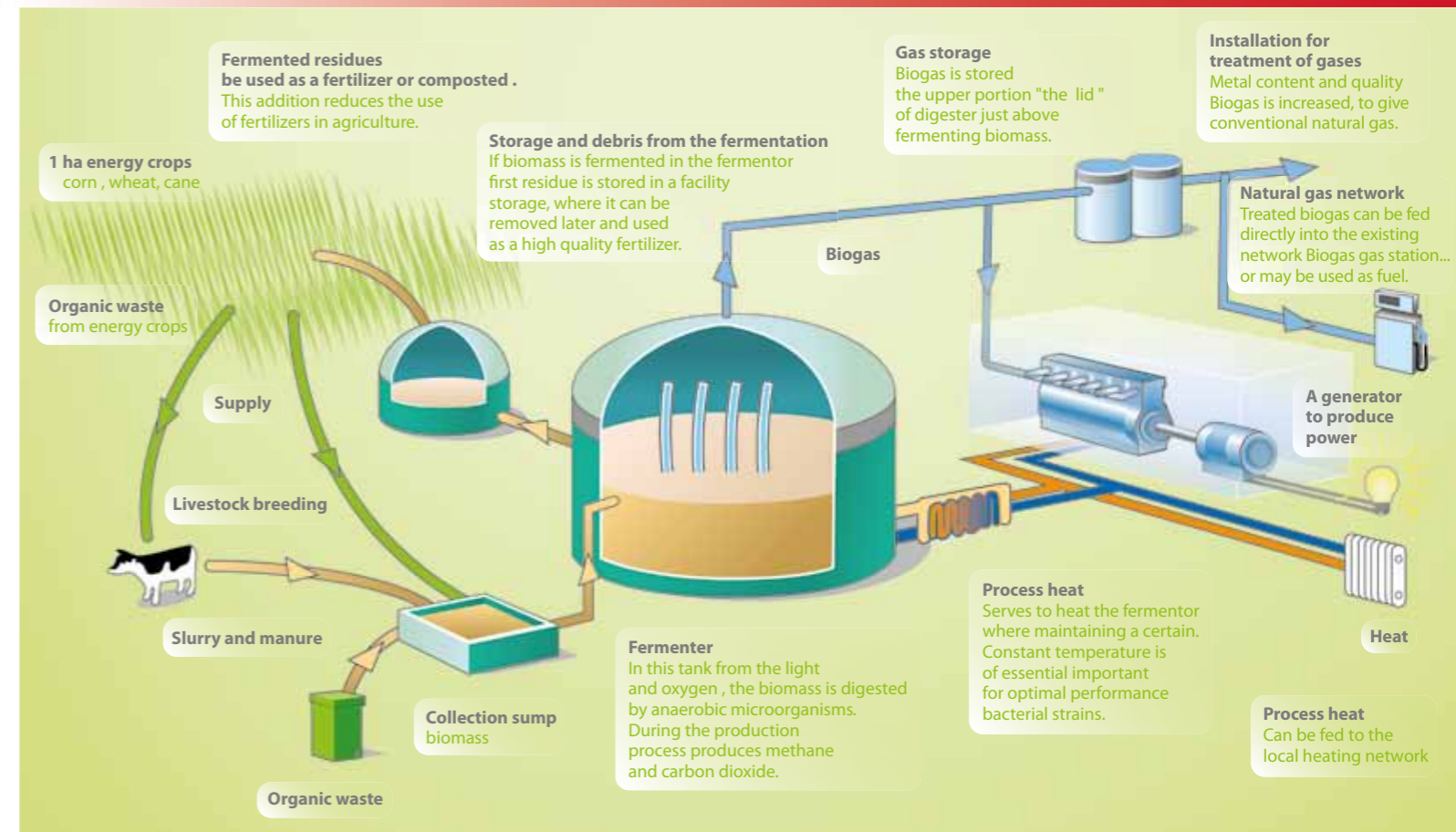
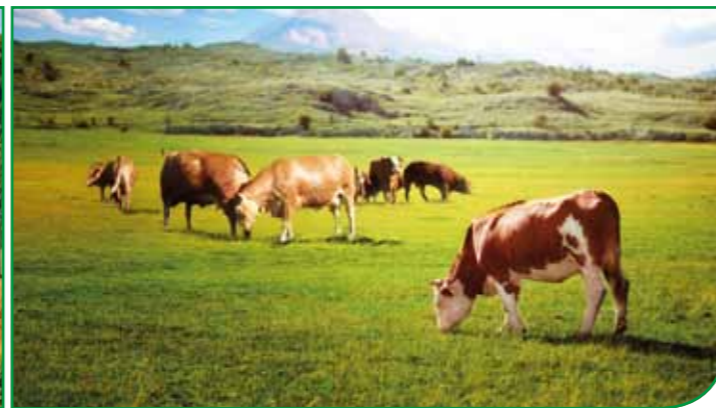
In line with Solar & Benefit International's mission motto "Save Nature" and its Environmental Preservation Technologies and Green Energy systems, S&B offers a wide range of high end technology Biogas Installations catering for the small to medium scale biogas applications for commercial farming and investor customers. Compared with other renewables, Biogas Installations today are the most profitable energy projects, taking advantage of the lucrative government Renewable Energy incentives programs for electrical energy produced from Biogas, whether the mechanism is via Feed in Tariffs or Green Certificates, at the same time solving also the environmental problems that animal waste is creating to the surrounding areas (contamination, smell, etc). However Biogas projects due to the substrate handling issue are usually confined to a narrow band of power output capacities between 500 – 1500kW. On the other hand, for the viability of the Biogas plant, usually it should be constructed close to a stable and ample source of animal manure substrates, being

mainly from pigs and cattle and located on the specific farms. Other vegetal substrates such as silage and vegetable processing wastes are the complementary feed materials needed also for the efficient operation of such a plant and their sourcing should be tightly secured by working with long term sources of the materials. Nevertheless, all the necessary substrates must be available on a continuous and constant basis with only small seasonal variations in quality and quantity being tolerable for the process.

By combining S&B's complete product and technologies portfolio, S&B can provide a multitude of solutions, caring for the needs of the community or commercial venture. Our technologies and synergies may be applied for the realization of the most demanding projects and providing significant benefits to the local and wider community in terms of electrical energy and heating. Special features of S&B's Biogas systems and synergies range include:

S&B Biogas Installation features

- Fully enclosed and standalone systems
- Smallest footprint, allowing convenient installation close to animal enclosures
- Semi-automatic operation with high end monitoring systems
- Dual digester tank operation for increased output and/or reliability
- BioGas engine cogenerators options for on-grid electrical energy production
- Integrated solutions with greenhouses
- Additional community heating or cereal drying services and revenues
- Digester output contributes continuously to additional investor revenues
- Pelletized and dried organic fertilizer for farming or greenhouse cultivation



Quality

All components used for the construction of the Biogas plant and its supporting equipment and subsystems are predominantly of Austrian, German and US origin, being built to the highest standards of craftsmanship.

Guaranteed Operation – Living Engineering

Solar & Benefit International's Biogas projects are powered by STRABAG amongst partners mainly from Austria / Germany, being one of the world's renown Construction and environmental technology Bio-Energy experts providing systems optimized according to the original customer's specified requirements and in accordance with the available substrate resources.



Save Nature!

