

Integrated solutions for clean water and energy

Biower 

Reliably and with ease,
from a single supplier.



Biower combines environmental innovations into total plant solutions

Biower is a supplier of total solutions for biogas and waste water treatment plants, with responsibility for all deliveries throughout the project. Its service provision covers the entire life cycle of plants – from feasibility studies to project management and subsequent life cycle services. The plants' process technology solutions, based on field-proven reliable innovations, have been developed by our partners and are now being applied by Biower in its market area.

The Biower operating policy combines extensive experience from international projects, in-depth environmental expertise and the latest environmental technologies, which are of the highest quality available on the market. Thanks to this model, our customers can now acquire total plant solutions including the related technologies, reliably and with ease, from a single supplier.

Services create functional entities

At the heart of Biower's total deliveries are project services, from feasibility studies and production definitions to process design, dimensioning, commissioning and startup. The project management is responsible for customer contacts, and for ensuring that the project progresses smoothly on schedule, and that the plant complies with the customer's expectations and performance guarantees after startup.

Our life cycle services cover spare parts management, periodic maintenance and preventive maintenance. In addition, process development is an inherent part of our life cycle services. A development project may be based, for example, on the need to increase the capacity of an existing plant or to modernise processes with the aid of new technology. This ensures that the plant will continue to operate in full swing, even after many years of use.

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Clean energy

Biower's energy production systems are based on the non-polluting use of biological waste and other biomass types. The end product consists of bioenergy and fertilizers.

Biower uses a dry fermentation process resulting in uniform biomass decomposition and stable gas production. The method efficiently converts biowaste into gas for the subsequent production of electricity, heat or purified gas products. The bio raw materials and the nutrients have a high dry matter content, thus reducing transportation costs and emissions.

The biogas reactor is applicable for processing biowaste obtained from, for example, communities, agriculture and the food industry. In addition, the reactor can be easily installed to boost the operation of existing compost plants.

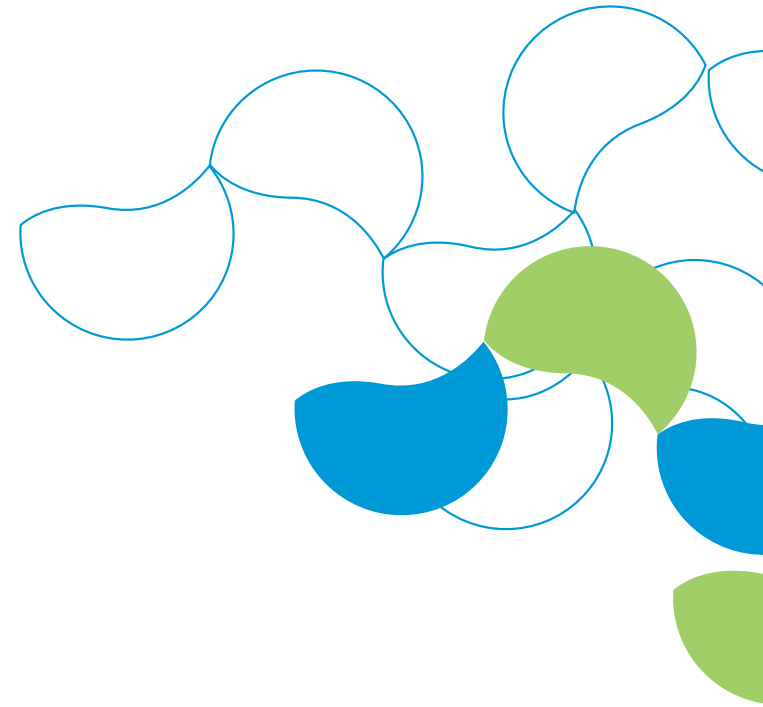
Clean water

Biower's waste water treatment solutions are based on the biological exploitation of bacteria. The energy consumption of the waste water treatment plants is extremely low, with a minimal space requirement. Their size is only a fraction of conventional treatment processes that require large reservoirs. At the same time, their energy requirement has been minimised. Thanks to their modular construction, the waste water treatment units are equally applicable for small and large installations alike, from residential buildings to industrial plants and entire urban areas.

Our waste water treatment plant solutions are based on the use of specialised bacteria and flotation technology. This means that the purification spectrum of the applications is broad, covering various water-soluble and mixed impurities, and their combinations.

Clean water and energy.





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