



Benefit / principle of a biogas plant

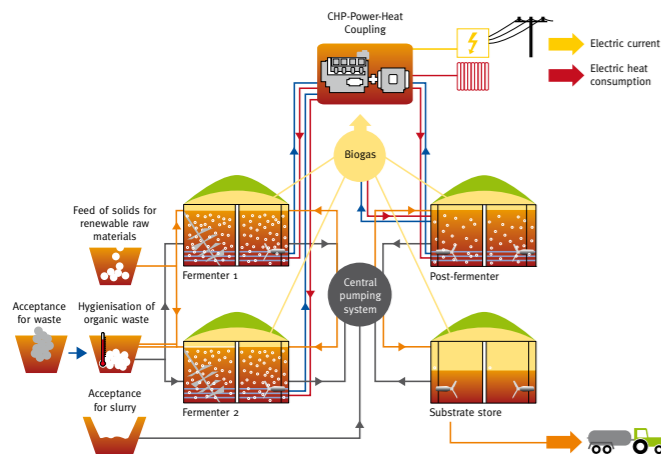
Environment

Energy and heat are generated in a CO₂ neutral manner, whilst conserving fossil energy sources.

Secure income for agriculture

The production of biogas also opens up to farmers an alternative and, above all, a secure income through promotion of the "Renewable Energy Sources Act".

The Consentis principle



More creation of value for farmers –
demonstrative return on capital for investors

Consentis – we get a move on!

For more than 10 years Consentis builds ready-to-use biogas plants. Internationally, we are among the leading full-range suppliers.

As **full service provider**, we accompany you from the development and authorization, construction planning through to supply into the public grid with subsequent service support.

- Our team of engineers, building specialists and experienced experts provide **intensive support**.
- Our **plants** impress through a high energy yield from the diverse input materials. A long process duration increases the efficiency and makes it possible to use difficult to ferment substrate. Our plants operate at the highest possible availability and utilization. In addition, there is a very low maintenance cost.
- All these features secure a high **return of investment** for our customers.

Biogas –

economically, ecologically, guaranteed
for the future

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Profitability analysis

- Our **advisory service** offers you the possibility to inform yourself about the advantages and disadvantages of the planned investment within the new statutory conditions.
- Here, we also inform you about the different **investment processes**.
- We will gladly prepare a **noncommittal proposal** for the installation and operation of a biogas plant.

In comparison to the investment costs for land and plant, recurring operating costs for maintenance and plant support and the costs for connection to the public grid, are the income from the sale of the energy, savings on heating and the sale of heating and biogas to third persons.



What does Consentis technology offer?

Our Products

As a full-range supplier, we deliver to you **easy biogas** plants for small upgradable plants, up to 250 Kilowatt and **multifeed biogas** large plants, up to the Megawatt range. We are also active in the field of gas processing.

We install your plant in accordance with proven industrial quality standards. For the construction, only materials from selected manufacturer's are used that correspond to our high quality standards. All components prove themselves reliable in continuous use, also in our own plants.

As a full-range supplier, we at Consentis rely on developed process engineering, such as long dwell period of the substrate, low digester contamination, large fermenter volumes and corresponding comprehensive gas storage.



- The **feeding technology** consists of high quality components, that are adjusted to the demands and requirements of the respective plant. For this, there are different procedures, such as, for example, the moving floor system or vertical mixer.
- The **mixing technology** consists of a combination of large bladed agitator and submersible motor agitator made from stainless steel. The large blade agitator provides vertical and horizontal mixing. It also operates slowly and,

therefore, energy saving. The formation of floating and settling layers is prevented by four pairs of blades. In addition, submersible motor agitators, adjustable on all sides, provide good mixing in the container.

- The central **pumping system** is so designed that pumping between all fermenters, post-fermenters and substrate stores is possible at all times, independent of the direction.
- The elements of the **heating system**, made from stainless steel, in the fermenter and post-fermenter are attached to the inner wall of the container.
- Our **reinforced concrete containers** are manufactured with a braced formwork system, whereby, accurate manufacturing and a high compression ratio is ensured. The robust containers withstand extreme loads.
- The **dual-membrane domed roof** collects the resulting biogas in the large gas storage facility.
- **Control of the plant** is very simple, possible through the Touchscreen or remote data transmission. Malfunction reports are recorded in the plant and the operational readiness communicated per mobile phone.



Maintenance and service

- A comprehensive **service** is indispensable for the operation of a biogas plant. We make sure that your plant functions reliably from the beginning. The availability of your plant is our highest priority. Service staff are available during the complete start-up phase, up to attaining full load. For example, they regularly check the biological process and control adjustment. From the beginning, you are prepared for operating the biogas plant.

- For malfunction-free operation, regular **maintenance** is very important.

For this, we offer you a choice of different components:

- invoicing according to cost or
- a support contract at a fixed-rate cost.

Contact us! Together, we will find the most reasonable solution for your plant.

In the event of unexpected malfunctions, our 24-hour service is available.

