



Biogas plant technology for highest demands

Highly efficient plant technology – for flexible input and the best output

For years, we have worked in plant optimisation to permanently improve the economic efficiency. In the process, we have developed many pioneering methods to achieve and increase productivity. It was all worth the effort: As technological leader in the industry, we can offer numerous innovative techniques that set the highest standards of efficiency on the market.

Every waste material requires a specific kind of treatment, no two manufacturing companies are run in the same way, every local council is different, and each country has its own raw materials and laws. A high degree of flexibility has always been essential in our business. In 2002, we began developing our wide range of input methods for biogas plants to maximize yields for liquid, solid, semi-solid or fibrous input materials like wet manure, solid manure, organic residues and biomass.

We then seek to combine these with a portfolio of the most advanced technologies on the market while delivering the most intelligent marketing strategies for your energy. All of this has helped us achieve and maintain our leading position in the global biogas sector.

With Germany's largest integrated Bio-LNG plant — the BioEnergy Park Güstrow — which includes bio-CO₂ liquefaction, we have further expanded our portfolio. Now, as an independent provider of CO₂-neutral fuel for commercial and heavy-duty transport, we are setting a new benchmark in the industry. We are continually enhancing our position as a technology-driven, versatile leader in the market, actively opening doors to wind and solar projects as well.

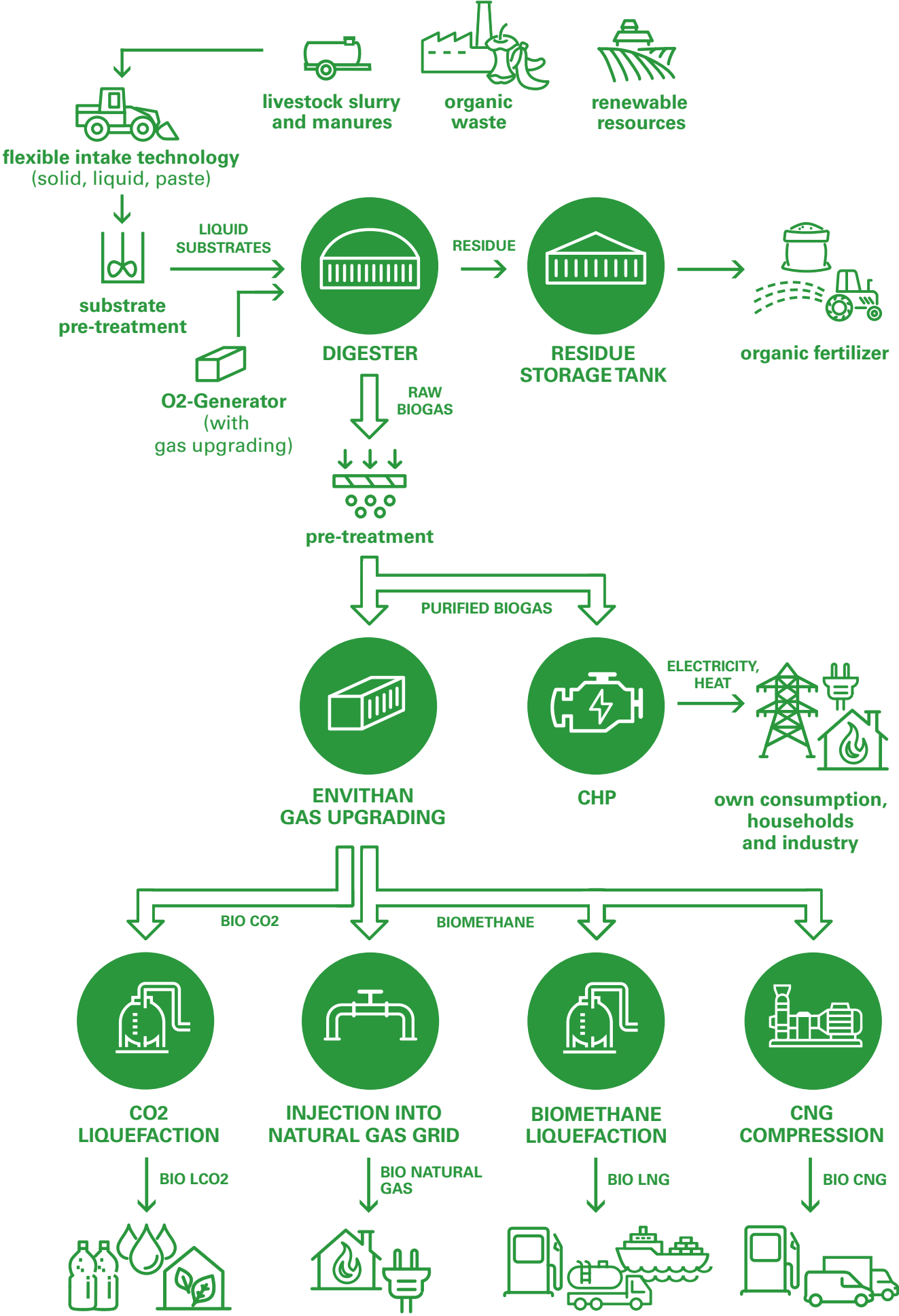


MORE INFO
ABOUT THE
PARK IN OUR
FILM!



The BioEnergy Park Güstrow produces approximately 18,000 tons of bio-LCO₂ per year.

FROM INTAKE TO FINAL PRODUCT –
everything from a single source



REFERENCE: the industrial-scale agricultural plant in Glamsbjerg/Denmark

Location: Flemløse, Denmark

In-service date: 2020

Input materials: solid manure, wet manure, straw, organic residues, maize and grass silage

Special features:

- 850 Nm³/h adjoining biogas upgrading plant
- Biomethane is fed directly into the local grid
- Innovative residual material processing system with flexible input handling

The **EnviThan gas upgrading plant** separates methane and CO₂, producing high-purity biomethane for injection into the local gas grid.



The biogas is pretreated in the **pre-treatment** to remove water, H₂S and VOCs.



The **Kreisdissolver** and **PreMix** prepare the input materials for transfer to the fermenters.

**WATCH OUR
FILM ABOUT
THIS PLANT!**



REFERENCE: the industrial plant for residual material recovery in Gauchy, France

Location: Gauchy, Département Aisne, Region Hauts-de-France, France

In-service date: May 2021

Input materials: 51,000 t industrial and agricultural residues p/a

Special features:

- 440 Nm³/h EnviThan with grid injection compressor (16 bar local grid)
- Innovative residual material processing system with flexible input handling
- Residual material supplied to dedicated 1,000 m² technical building

Reception and intermediate storage of liquid input materials



Reception bunker for paste-like input materials with flexible unloading options.



Solid input materials are fed into the system via the **vertical mixer**.



The **hygienization** process treats the digestate according to local regulations.



Two mixing tanks ensure optimal homogenization of the substrate.

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22 years of experience in building and operating biogas plants

700+ biogas plants

100+ biogas upgrading plants

12 years of experience in EnviThan upgrading plants

87 own operated plants

97% average capacity utilization of own operation plants

700+ employees

EnviTec Biogas AG

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