BIOGAS PLANTS

RENEWABLE ENERGY FROM
ANAEROBIC DIGESTION OF ORGANIC WASTE

host-bioenergy.com
HoSt offers a total biogas plant solution for the anaerobic digestion of organic waste streams. With extensive experience, in-house knowledge and expertise since 1991, HoSt successfully realized hundreds of biogas projects worldwide. The produced biogas can be upgraded to biomethane for gas grid injection or for gas filling stations, or can be converted to electricity and heat with a heat and power unit.

Our proven advanced technology makes it possible to:

- Digest a broad range of biomass streams, such as sludge, grass, solid manure, chicken manure, agricultural by-products, straw, slaughterhouse waste, and liquid waste streams;
- Run on a higher organic loading rate due to optimized dosing and mixing, achieving the ideal feedstock mixture resulting in a stable digestion process and high biogas production;
- Achieve the highest process stability and availability due to the applied mixing technology, maximizing the efficiency of the conversion of organic matter to energy;
- Produce valuable end-products out of digestate.

HoSt biogas plants are tailor made for your best technical & economical bioenergy solution, and stand out through various technologies and many innovations:

- Digestate treatment technology
- Patented insulated double membrane roofs
- Full heat recovery
- Straw treatment technology

FEEDSTOCK FLEXIBILITY
EASY-TO-OPERATE
HIGHLY AUTOMATED
FUTURE-PROOF ENGINEERED
HIGH AVAILABILITY
TAILOR-MADE FOR THE BEST SOLUTION
ROBUST, HIGH QUALITY EQUIPMENT
24/7 SERVICE & MAINTENANCE

No. 1 in Waste to Bioenergy

We were one hundred percent sure that we wanted a HoSt manure biogas plant, due to HoSt’s professionality and experience with manure digestion. We are very pleased with the monitoring and control system, which gives a nice and clear overview. We can control the plant online and even via our smartphone. Everything is highly automated and runs smoothly. The installation works well and we have nothing to worry about. We only have to ensure that enough manure is available to feed the digester.

Family Loonen, the Netherlands | 40 Nm³/hr of biomethane | 16,000 tonnes of (straw) manure per year | gas-to-grid

HoSt has broad experience in supplying industrial biogas plants. In these industrial biogas plants, organic waste streams are digested without the addition of manure. A broad range of biomass streams can be digested, while guaranteeing optimal mixing and maintaining process stability at all times.

With the sewage sludge treatment systems of HoSt, any municipal waste water treatment plant has the potential to turn the plant into an energy provider. To reduce the communal sludge amount and to increase the energy output, HoSt applies a combination of thermophilic and mesophilic anaerobic digestion.
"HoSt biogas plants contribute to ensuring the success of a circular economy by producing renewable energy, solving waste management challenges, and creating valuable end-products from organic waste. We strive to be a market leader and a major global actor with our most advanced biogas plants".

CEO Herman Klein Teeselink

HoSt offers a wide range of services. From 24/7 service and maintenance for our supplied biogas plants to process analysis and process optimization to ensure your plant runs in the most optimal way.

A strong focus on research and development gives us the practical applications that form the basis of our and your success. At HoSt's research facility in Waalwijk, newly developed technologies are tested before being marketed. Our own laboratory allows us to carry out tests, such as biogas and digestate analyses.

HoSt conducts feasibility studies, can obtain necessary permits for installations, offers project management, project development and engineering activities, and can take care of the entire process from the beginning to the desired goal.

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