

# Expert on-site O<sub>2</sub> solutions for biogas production

Biogas is an up-and-coming renewable source of energy. It is produced by taking waste from households or businesses and turning it into a green fuel that can be used to generate gas, electricity and heat. Oxygen plays an important role in this process because it reacts with an undesirable byproduct of biogas production (hydrogen sulfide). This reduces the amount of hydrogen sulfide to a safe level and protects downstream equipment.



# Expert on-site O<sub>2</sub> solutions for biogas production

Oxygen plays a crucial role in the production of biogas. That's why you must have access an **O<sub>2</sub> supply you can count on**. Your oxygen also needs to be available at the **correct flow** to maintain the right level of hydrogen sulfide while **minimizing oxygen use**. Your oxygen purity also must be high enough to reduce nitrogen content and improve your Wobbe/energy index while **avoiding a needlessly high specification** that comes with a higher cost per m<sup>3</sup>.

## On-site oxygen generation – the preferred solution

Many companies still purchase their oxygen – even though generating your O<sub>2</sub> on-site offers more advantages. Here are just four:



Greater  
cost-efficiency  
saves you money



Eliminating bottle or liquid  
deliveries reduces your  
environmental footprint



Take charge  
of your own  
oxygen supply



Less hassle by  
removing supply  
logistics

## Take your biogas production to the next level with the PPOG HE

With the lowest energy consumption on the market, the Pneumatech PPOG HE can make your biogas plant the most environment-friendly around, while lowering your operating costs:

- 30% more efficient than traditional oxygen generators
- Dependable oxygen supply eliminates the need for expensive O<sub>2</sub> deliveries
- No O<sub>2</sub> transport reduces emissions
- Integrate the generator into your plant's DCS/BMS to monitor oxygen flow at all times
- Variable Flow Saver reduces energy costs by 70% during lower demand
- Automatic and autonomous operation provides top reliability and user-friendliness



## More than just a superior product

But Pneumatech offers you more than “just” the best oxygen generator on the market. We also provide the equipment and expertise you need to ensure that your compressed air is optimal for your applications.

That includes building our systems – which meet all special and safety requirements – into bespoke containers. And, once yours arrives, we will integrate the complete system into your plant.

In addition, we help you detect leaks and provide flow monitoring for your system, which can greatly increase your plant's energy consumption.

## Expert advice and support

To take the next step in your biogas plant design or your production, get in touch with us now. Once you provide us with information such as the number of your digesters, the size of your plant, the volume of your production and the amount of hydrogen sulfide you have to remove, we will put together the optimal on-site oxygen generation solution. If you don't have that information or need help, our experts are ready to help you through the specification process.