

# Mepal Extension Plant – Mono-Digestion of Straw and Integration with existing Mepal AD complex



**Feedstock and Mono-Digestion Process.** At full operation, the Mepal 3 extension facility processes up to **180.000 tonnes per year** of agricultural organic waste, primarily **extruded straw**, through a dedicated mono-digestion process. Straw, as a lignocellulosic biomass with its fibrous composition and high biogas potential, undergoes mechanical pre-treatment and extrusion, to enhance digestibility and optimise methane yields.

The Mepal 3 extension represents the successful **extension of the existing Mepal 1 & 2 anaerobic digestion complex**, enhancing its total processing and biomethane output capacity through the strategic integration of a mono-

digestion unit focused on agricultural residues, engineered as a fully integrated extension of an existing, operational plant. This complex expansion was achieved without interrupting the performance or run-time of the existing Mepal plant, underscoring the technical endurance, engineering precision, and the client's deep trust in the underlying technology.

Through careful planning, advanced design, and robust system integration, the Mepal 3 extension sets a new standard in scalable biomethane infrastructure that responds to increasing feedstock availability and national renewable energy targets.

## Gonerby Moor – Take over accomplished!

Gonerby Moor is not only AF's 11th AD plant built for our long-time client Future Biogas in the UK, but using their own words, it is "Future Biogas's new flagship AD site"! After almost 15 years from the start-up of the first joint biogas plant (Reepham), Future Biogas has again selected Agraferm technology for UK's First Unsubsidized Biomethane Plant.

Located in Gonerby Moor, Lincolnshire, the plant will provide clean heat for all of pharma giant AstraZeneca's R&D and manufacturing in the UK, supporting sustainable production of medicines.

Acc. to Future Biogas the Moor Bioenergy plant will supply 100 GWh of renewable energy annually to AstraZeneca UK, equivalent to 20% of the Company's total global gas consumption, displacing approximately 18.000 tonnes of carbon dioxide equivalent (CO<sub>2</sub>e) emissions per year from fossil gas.



We are proud of being part of this project and look very much forward to continuing our cooperation with Future Biogas and to the next project to come!



## Acceptance tests successfully accomplished!

We are extremely delighted to share that our GLENTHAM AD facility has achieved for its acceptance all acceptance criterias!

The VIDA Bioenergy Plant in Glentham, commissioned in 2025 for VTTI B.V. processes 47.100 ton/y sequential grown crops as part of a sustainable farming rotation to produce 1.200 Nm<sup>3</sup>/h of raw biogas, with two primary and one plug-flow post digesters. The raw biogas is upgraded to biomethane equivalent to 60 GWh/year – enough to supply over 5.200 UK homes.

In addition to biomethane, the facility will also produce liquid CO<sub>2</sub> and digestate, an organic fertiliser, which will be used locally to replace synthetic fossil-based fertilisers and enrich the soil with organic material.

Glentham underlines AF's outstanding track record in delivering exceptional biogas plants!

**With VTTI/VIDA another institutional investor in renewable energies relies on Agraferm technology, engineering and project management expertise!**