



EnviFarm –
biogas plants for agriculture

Energy from farm wastes and residues

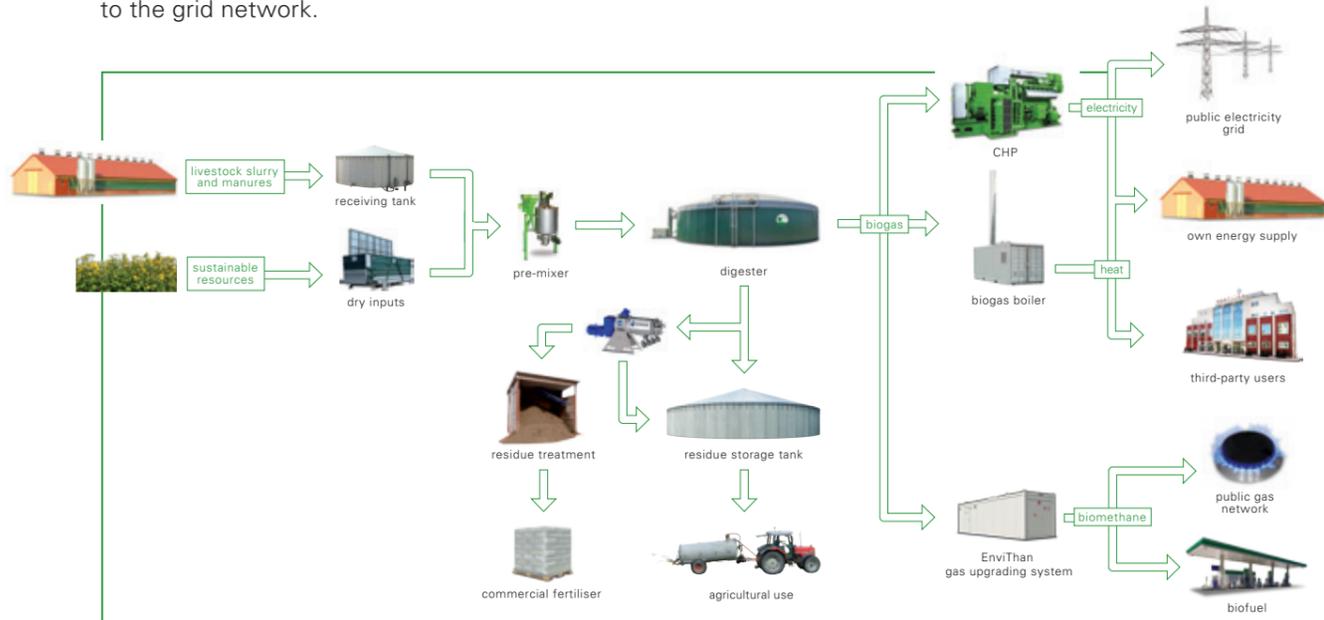
About EnviFarm

Farming enterprises have the potential to convert byproducts from their operations into valuable energy from a renewable and sustainable source. An EnviFarm biogas plant provides an effective means of converting slurry, biomass and organic farm waste into an additional revenue stream.

Proven technology ensures a high output from a compact facility giving farms the security and reliability of generating their own energy supply. For larger farming operations, an EnviFarm biogas plant has the potential to generate renewable energy which can be exported to the grid network.

Options are available to meet specific needs and EnviFarm can be relied upon to offer a sustainable method of waste management, which creates a valuable revenue stream for farm businesses looking to augment their income.

The strategic policy move away from sending waste to landfill and reducing the use of fossil fuel means that energy derived from waste is a winning solution for all. Farms can utilise the process residue or 'digestate' as a valuable fertiliser or, thanks to the highly efficient pasteurisation units which ensure the by-product meets the PAS110 standards, may be sold as a fertiliser to other farmers.



Case Studies

Stowell Farm

Location: Pewsey, Wiltshire

In operation since: 2012

Input materials: Cow slurry, agricultural waste and sustainable cropping

Features:

- > 499 kW_{el} CHP
- > Producing 4,200MWh of electricity per annum
- > 15% of energy produced re-used on farm
- > Digestate separated and used as fertilizer helping to improve soil conditions

The anaerobic digestion plant has proved its worth for Stowell Farms. It delivers a consistent income and significant advantages to the mixed farming estate, which features a 450-strong dairy herd and 1,500 ewe flock. The plant – which has been installed for four years – is still running as efficiently as it was on day one, with performance at an average of more than 97 per cent.



»The project has been very successful and we would certainly do the same again.«

Gavin Davies, Farms Manager, Stowell Farm

Melrose Pigs

Location: Melbourne, Yorkshire

In operation since: 2012

Input materials: Pig Slurry, grass and maize silage, other organic by-products

Features:

- > 499kW_{el} CHP
- > Electricity produced is exported to the grid
- > Operating at 99% output
- > Organic residues are utilised on-farm as a soil conditioner and liquid fertiliser.

Melrose Farm invested in the biogas unit to cut costs, increase revenues and simplify slurry management. On average, 10 tonnes of manure and 27 tonnes of other materials are added to the plant on a daily basis. Energy produced is partly used on site and to make further savings the farm is utilising the residue left at the end of the AD process as fertiliser and soil conditioner.



»Ultimately, biogas production helps underpin the growth and success of our business.«

Edward Rowbottom and Pamela Dear, Directors, Melrose Farm



About EnviTec Biogas

- + Europe's strongest partner for biogas and biomethane technology with more than 600 plants worldwide
- + Experience of owning and operating 76 plants with an average efficiency of 97%
- + Strong financial background of the EnviTec group
- + Biological and mechanical service support and maintenance provided by EnviTec Biogas Service UK
- + Main UK offices based in the Midlands offering nationwide support



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