



## BV Dairy, of Dorset, is aiming to cut its carbon footprint by more than 65% as a pioneer of liquid Anaerobic Digestion (AD) technology

### BV Dairy, Shaftsbury, Dorset

Established in 1958, BV Dairy processes around 35 million litres of milk per year, sourced from 35 farms located near its site. The product range includes fresh and cultured dairy products for sale to the UK's food manufacturers and food service operators.

BV Dairy is hoping to generate more than 75% of the site's electricity consumption with a new Anaerobic Digestion (AD) system.

The high-rate liquid digester has been designed and built by Clearfleau.

ENER-G is designing, supplying and operating that will convert biogas into renewable energy.

The AD system involves waste liquids from the dairy being converted into biogas, which will then be used to generate electricity and heat using ENER-G's CHP technology. The majority of electricity will power existing dairy operations, with the remainder sold into the National Grid. Surplus heat will be used in the Dairy's production process.

The 190kWe CHP system will be capable of generating 1,539 MWh of electricity and 1,685 MWh of heat per annum from effluent. This dramatically reduces the dairy's reliance on fossil fuels.



#### The benefits of ENER-G's biogas Solution:

- Offers financial savings over conventional energy supply
- ENER-G can carry projects that are conceptual, through feasibility to construction and completion
- Reduced cost of project development
- Flexible approach to the utilisation of heat and power
- Live online system monitoring and operational maintenance
- Maximised operational output from the CHP system due to our nationwide network of service staff
- Full client support and assistance to maximise financial revenue of the electricity sale and ROCs

Anaerobic digestion can be applied for various types of biological waste, including:

- Sewage sludge
- Liquid manure
- Bio-wastes from households, slaughter houses, breweries and distilleries, dairies, sugar production, etc.
- Vegetables, vegetable oils and animal fats
- Organic MSW

For all ENER-G systems we offer long-term operational and maintenance contract to ensure smooth operation and long engine lifetime.

Like at any sites operated by ENER-G we can assist in selling the electricity to the local grid and administer the process for the recovery of Renewable Obligation Certificates (ROCs).

**“BV Dairy is projected to reduce its CO<sub>2</sub> emissions by approximately 1,200 tonnes per year, which would equate to the environmental benefit of planting 120,000 trees.”**

#### About ENER-G

ENER-G develops, delivers and finances sustainable energy solutions and Technologies on a business to business basis worldwide. We offer a “one-stop-shop” for all commercial and industrial energy requirements, from combined heat and power (CHP), renewable electricity generation from biogas, heat pump technologies, solar PV, efficient lighting, controls, metering and data solutions and energy from waste.

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