



BV Dairies KTP

Project Staff	Principal investigator: Prof. CJ Banks Named investigator: Dr S Heaven
Start year	2010
Finish year	2013
Funding body	Knowledge Transfer Partnership
Related website	http://www.bvdairy.co.uk/



•BV Dairy site

BV Dairy is a specialist dairy producer to major food manufacturers and food services which processes 35 million litres of milk a year, sourced from 35 local farms. Its products include milk, cream, clotted cream, cultured milk products, mascarpone and soft cheeses. A world-class facility for manufacturing soft cheese was commissioned in 2004: the process uses Ultrafiltration (UF) technology which, although widely used in Europe, is uncommon in UK dairy industry.

BV Dairy's business and environmental strategy for sustainable growth is underpinned by the installation of an anaerobic digestion (AD) plant supplying biogas to a Combined Heat and Power (CHP) plant to provide renewable energy and reduce the costs of effluent and waste treatment. The new facility is funded by the Environmental Technology Fund (ETF) as a demonstrator facility for the UK dairy industry.

Knowledge Transfer Partnership

The purpose of the Knowledge Transfer Partnership between BV Dairy and Southampton is to apply the University's research-based knowledge of process optimisation and integration techniques to the introduction of AD as a treatment process for high-volume, low-strength dairy wastes.



- Anaerobic digester

Collaborators

BV Dairy



Related websites

Knowledge Transfer Partnerships <http://www.ktponline.org.uk/>



Knowledge
Transfer
Partnerships



Publications

Cornell, M., Banks, C.J., McInnes, A., Heaven, S. 2011. Digestion of Dairy Waste Streams at a Full-Scale Anaerobic Digester. 6th IWA International Symposium on Anaerobic Digestion of Solid Waste and Energy Crops. 28 August - 1 September 2011, Vienna.