



Cogenco and a pioneering a renewable energy system



Cogenco Limited has recently installed a 210kWe combined heat and power unit at the Greenfinch biowaste digester site in Ludlow, Shropshire.

The combined heat and power unit has been installed as part of a biogas plant, the first of its kind in the country. Biogas is made from waste products, at this biogas plant the waste products are obtained from domestic and garden waste, collected fortnightly from local households. Through the resulting process biogas is produced to power the 210kWe combined heat and power unit which in turn produces electricity and hot water.

The 210kWe unit is running 24 hours a day, 7 days a week, monitoring by Cogenco will take place at their remote monitoring centre based in Horsham, West Sussex. Cogenco's Integrated Management System, IMS provides data collection and performance reporting and has been developed specifically for combined heat and power units.

In a controlled plant such as the biogas plant at Ludlow the anaerobic digestion process takes just 25 days compared to the normal process in a landfill site which takes 25 years, the biogas process provides an immense reduction in timescales for this process.

The advantage of this innovative system is the use of normal household waste, a totally renewable method of using waste and being able to recycle it to produce heat and power. The residue from this process is used; by way of plant fertiliser supplies to local farmers.

Greenfinch has been working in Partnership with South Shropshire Council since 1997 and was fortunate to receive funding from DEFRA and Advantage West Midlands for the construction of the anaerobic digester. The plant uses 5,000 tonnes of waste per year, safely and with the added benefit of the production of fertiliser it will provide a valuable contribution to the production of renewable energy.

Cogenco Limited has over 20 years experience in the combined heat and power market. Our range has been developed during that time in conjunction with the world's leading engine manufacturers. Our unit range is from 82kWe to 2MWe and can operate on a variety of fuels including natural gas, biogas, biomass, biodiesel and landfill gas. We offer all our customers a complete package, including in-house design and development, assembly, installation and project management, comprehensive technical advice and support. The assembly, test cell and remote monitoring centres are based at our Head Office in Horsham, West Sussex. Cogenco currently has over 450 units installed in the UK, and over 100 units in Europe and Asia.



Cogenco Limited is a leading producer of combined heat and power systems. We offer our customers a complete package, including in-house design and development, assembly, installation and project management, comprehensive technical advice and support.

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