



International Energy Agency 17th April 2008

Ludlow Food Waste Digester

Michael Chesshire Greenfinch Ltd



Greenfinch



Greenfinch Ltd British Anaerobic Digestion Specialists



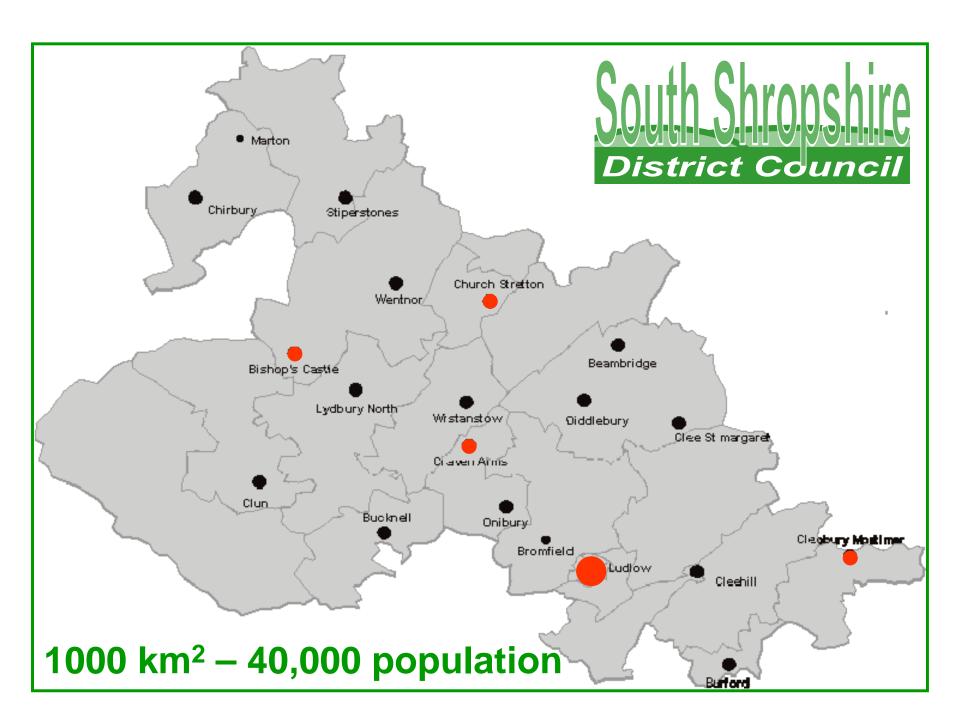


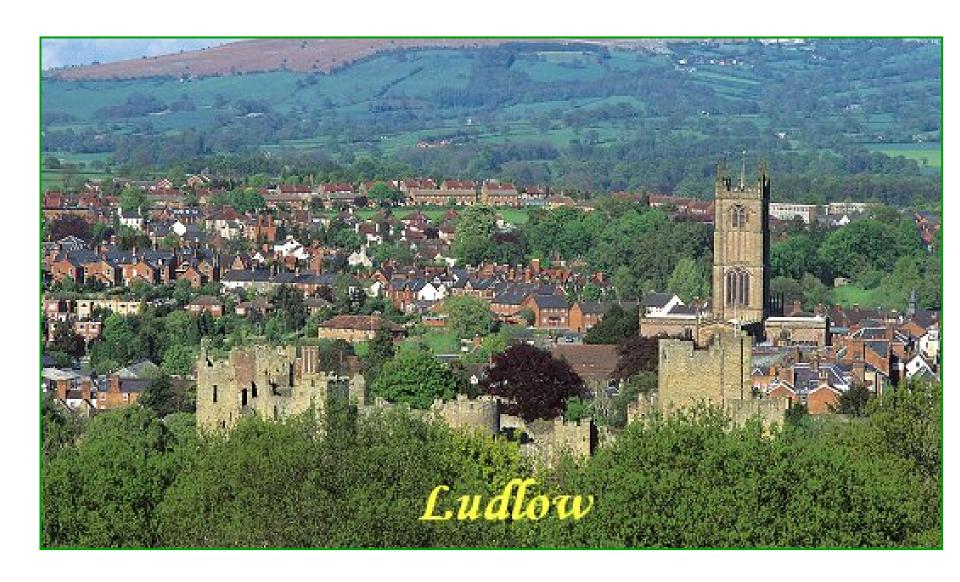




West Midlands Region



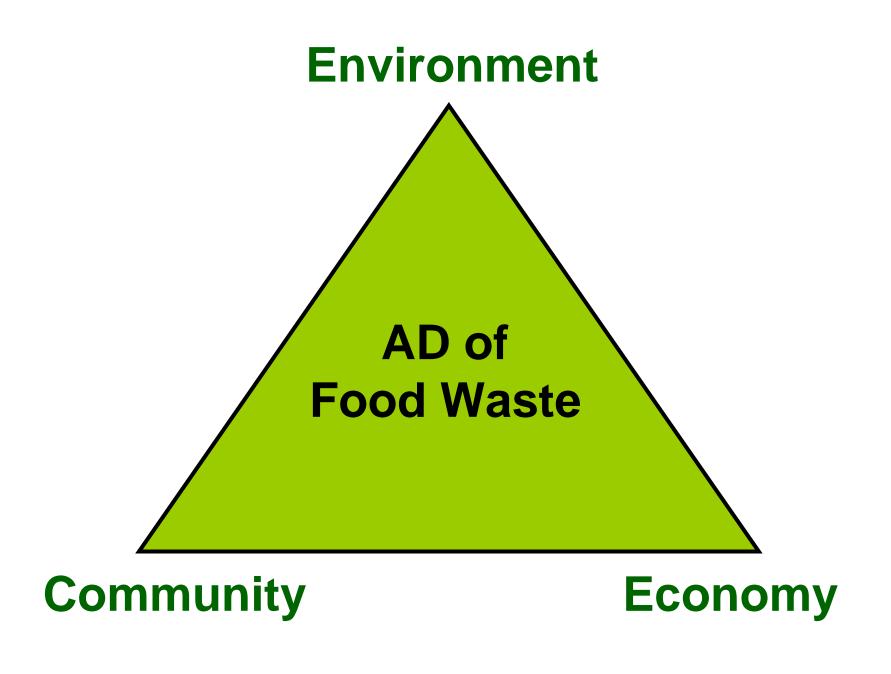


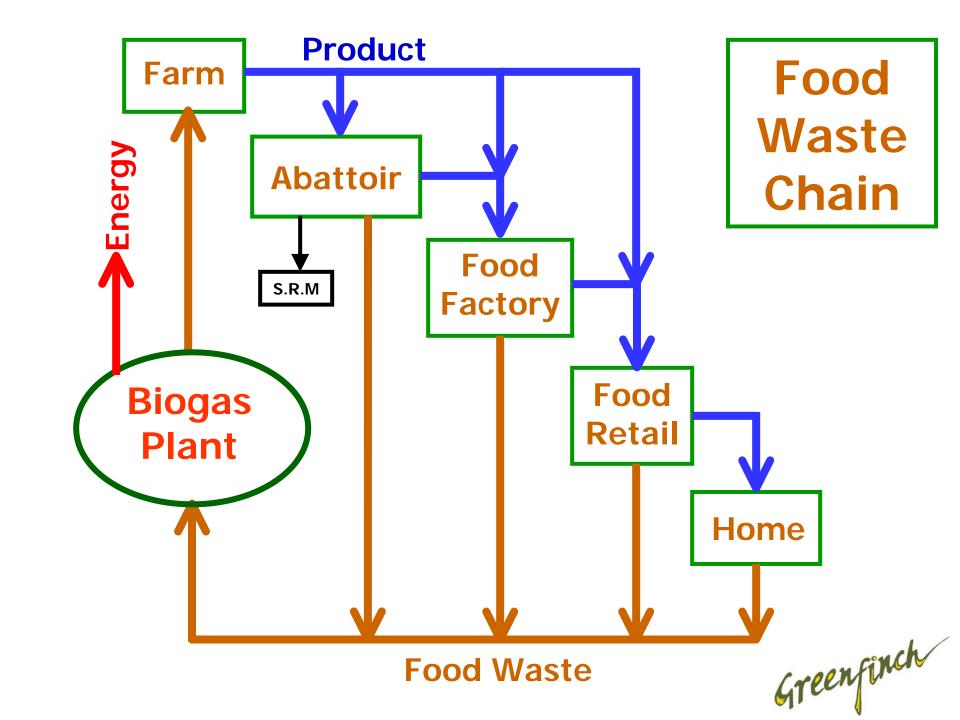


Public / Private Partnership since 1998









Greenfinch R&D AD of Food Waste (1996 to 2003)

Café-Bar Waste 1996 to 1999



Kitchen Waste from Households 1999 to 2001

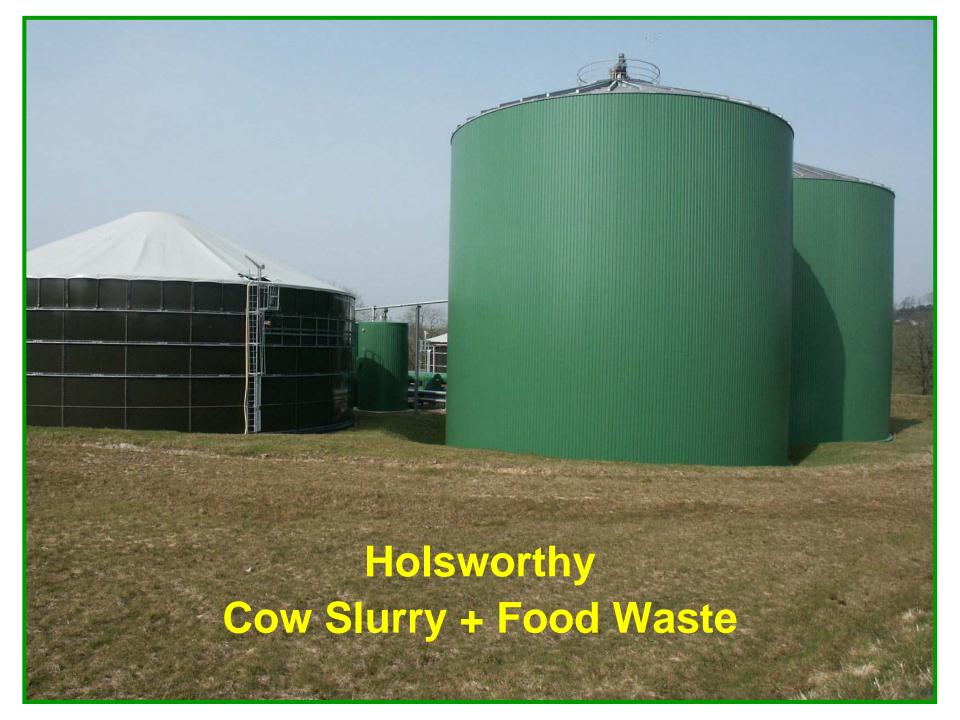


Mesophilic / Thermophilic Trials 2001 to 2003



UK Context

- WRAP estimates that each UK household produces about 250kg of food waste per year, representing one third of food purchased.
- In total households produce 7 million tonnes of food waste per year.
- There is a further 10 million tonnes from commercial catering and from food processing.
- This food waste must be diverted from landfill, and has the potential for the production of renewable energy through AD.





Financing the Ludlow Food Waste Digester

- Total capital cost of project, including visitor centre -£1.8million
- Capital funding from Advantage West Midlands as part of the environmental technologies business development programme.
- Capital funding plus revenue funding from Defra as part of the New Technologies Demonstration Programme, investigating processes to divert biodegradable municipal waste from landfill.
- Formation of community company (not-for-dividend), 50% South Shropshire District Council, 50% Greenfinch.
- Biocycle South Shropshire Ltd has the contract to operate the biodigester.







Permits

- <u>Planning:</u> Application to Shropshire County Council in January 2005; permission granted in March 2005.
- Waste Management License: Application to Environment Agency in August 2005; license issued in February 2006.
- Animal By-Products Approval: Application to Animal Health Agency to EU Standard in October 2005; temporary approval issued in February 2006, and full approval in January 2007.
- Biofertiliser Land Use Exemption: First application to EA granted for biofertiliser to land in January 2007.

Construction of the Ludlow Food Waste Digester









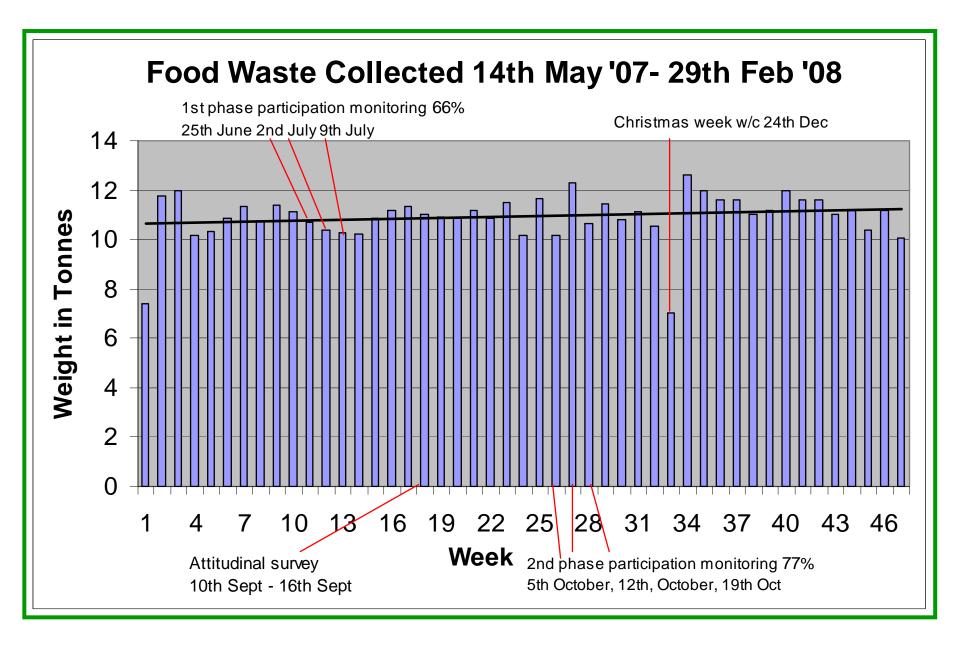
First Period of Operation March to December 2006



Second Period of Operation January 2007 to April 2008...







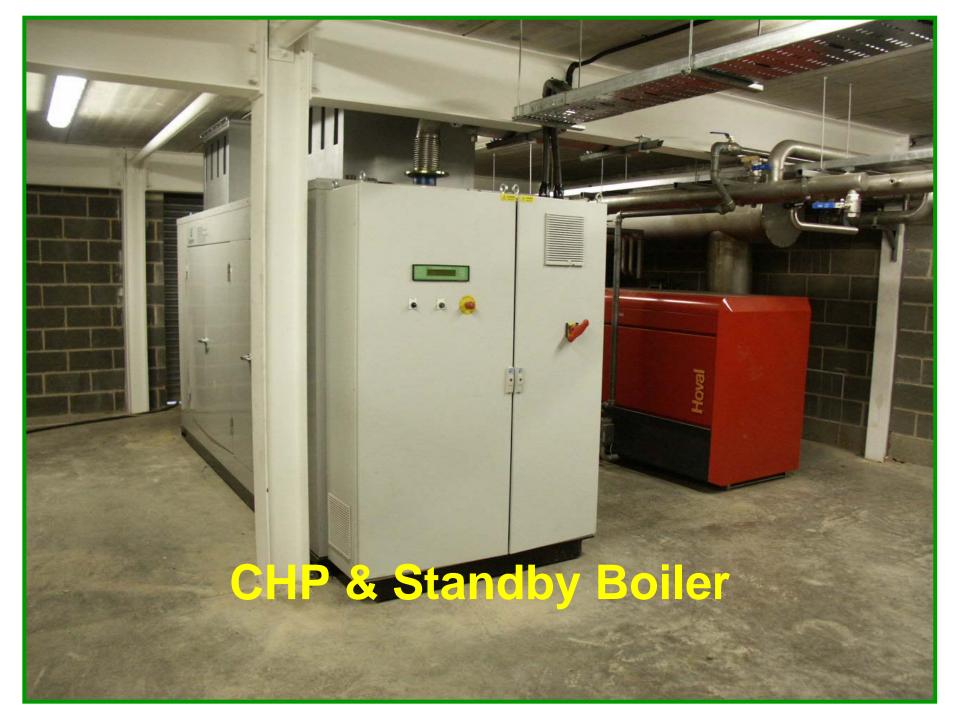








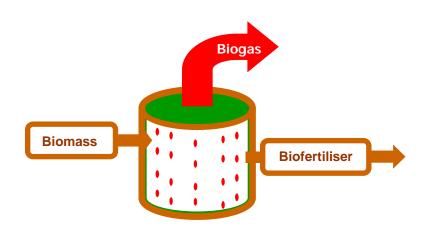








Anaerobic Digestion of Food Waste A Low-Carbon Process















Greenfinch

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