

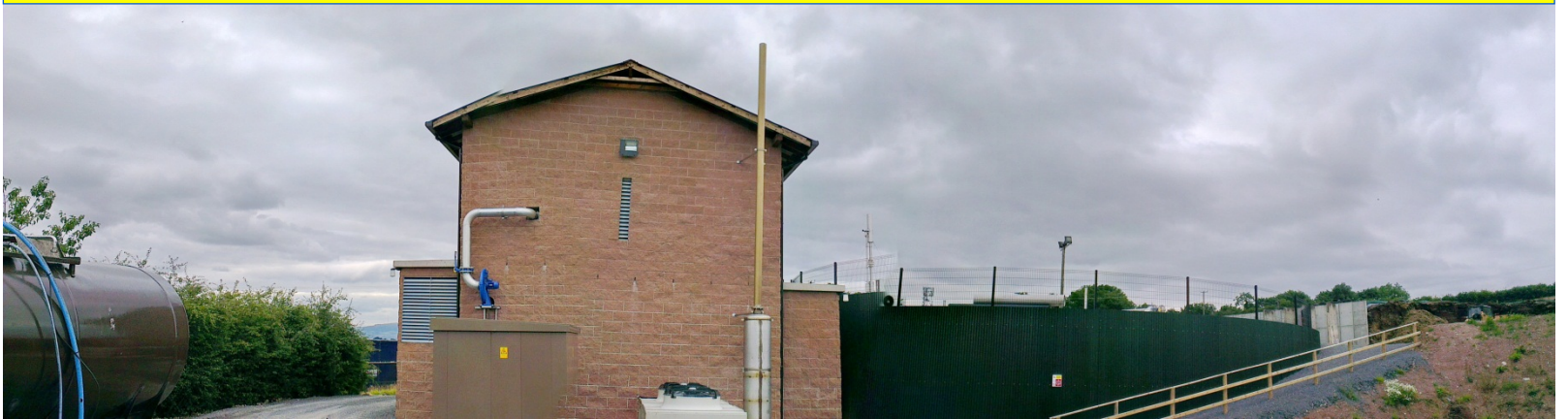
Dairy Farming and Renewable Energy



Northern Ireland

- Example of successful cooperation between a dairy farmer and the National Grid in the production of renewable energy from biogas

Blakiston Houston Estates Anaerobic Digester



- 250 kW anaerobic digester (expandable to 500 kW)
- Dairy cow slurry plus grass silage digester substrates
- Surplus electricity exported to national grid
- Capital grant through DARD Biomass Processing Challenge Fund



Benefits for the farmer, the environment and society

- Methane from slurry captured to produce renewable energy
- Digestate - high quality fertiliser spread using trailing shoe technology
- Better N utilisation from reduction in ammonia loss
- Dairy farm self sufficient in electricity
- Reduced farm GHG and carbon footprint
- Enough surplus electricity to power 500+ homes
- Reduced smell experienced by urban neighbours



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