Biogas

Peter Billins
Chief Executive
British BioGen

power from the land
What is Biogas?

- Anaerobic digestion/fermentation to yield
- Methane (natural gas)
- Nutrient rich liquor
- Fibre
- Usually involves a pasteurisation phase to kill pathogens
- Can be expressed at small and medium scale
What is Biogas?

- Proven technology

- three types of plant in the UK
  - centralised plant servicing a range of customers
  - embedded plant integrated with production plant
  - farm scale plant

- Economics the key to extensive deployment eg Germany over 500 plant
Evaluating Biogas

• Current Economics
• Resource scale and type
• Energy usage displace or sell?
• Overall trends in energy economics
• Bi-product sale or disposal
Biogas Economics

• Avoided cost of disposal

• energy revenue

  • qualifying biomass for ROC’s

  • therefore electricity price plus renewable premium

• Currently working on HOC’s which will transform value of biomass as a renewable fuel
Resources or suitable fuels

- All putrescibles
- Can be mixed with variety of other sources eg animal slurries
- Best suited to wet resources
- Particularly suited to food type biomass
- Resource profile determines gas yield and therefore economics
Holsworthy Biogas Plant Under Construction