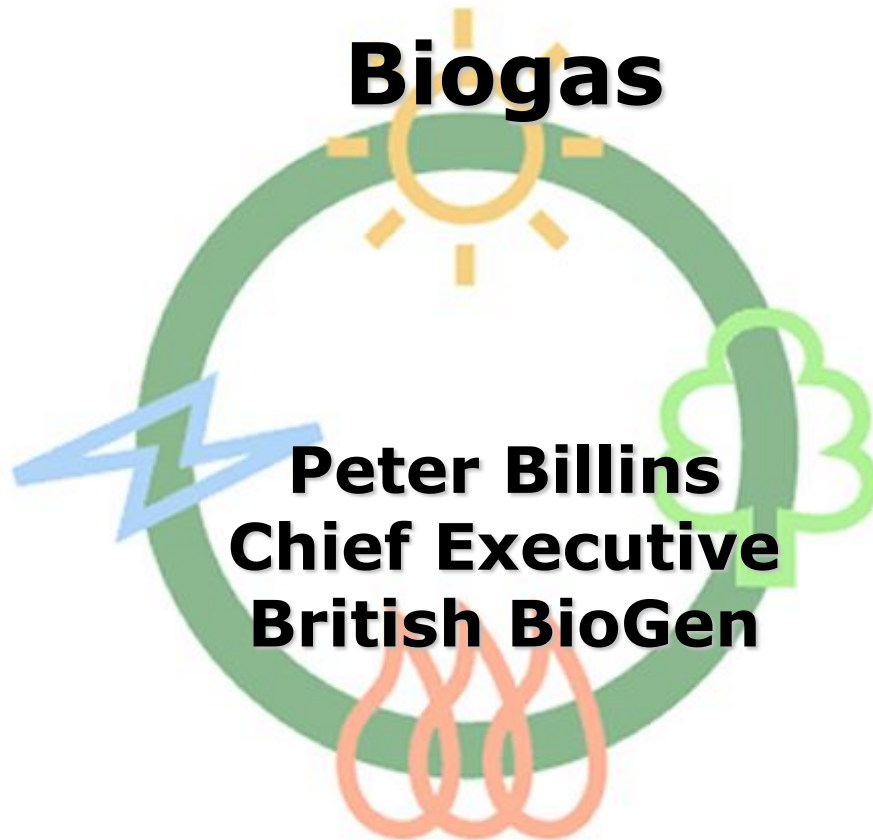




BRITISH BIOGEN
Trade Association to the UK Bioenergy Industry

Biogas



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

Some exemplars?

Holsworthy Biogas Plant Under Construction

