

IEA Task 37 Energy from Biogas & Landfill Gas

UK Report November 2007

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Sponsored by

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The Biomass Strategy

June 2007

Defines Government policy for biomass

Aims :

- **To support existing RE & Climate Change targets**
- **To facilitate development of competitive & sustainable markets & supply chains for biomass**

NB Highlights the role for on farm AD and AD for management of food waste (See also Waste Strategy)

The economic case for AD

Working Paper 1 Economic Analysis of Biomass Energy highlights comparative cost of carbon savings

Examples:

- Med scale AD compared with oil £22/t CO₂
- **Small scale AD/CHP compared with oil £72/tCO₂**
- Bio-diesel compared with diesel £ 137/t CO₂
- **Bio-ethanol from wheat compared with petrol £152**
- Dedicated wood fuel power generation £200/t CO₂

(For full text of report go to Google Biomass Strategy)

Facilitating measures for AD

- Renewable Obligation Certificates x 2 / MWh
- Protocol & standard for the application of digestate to land includes:

Financial Impact Assessment

Risk assessment

List of wastes that will be allowed as
feedstocks

Production and use of bio-methane

Status of Renewable Transport Fuels Obligation

- Order 25th October to implement April 2008
- **Renewable Fuels Agency set up (administration)**
- Technical Guidance Notes for producers reporting carbon avoidance & sustainability being finalised
- **Excise duty incentive agreed £ 0.4 (28 E cents) and £0.15 (10 E.Cents) as Buy Out price**
- Lobbying of Government for gas licensing to supply into gas grid

Barriers

- **Huge costs of grid connection and access is major barrier for development of farm scale plants**
- **Absence of regulatory framework in the Renewables Obligation to allow upgraded biogas to be transmitted through the natural gas grid as a renewable fuel**