

BIO-ENERGY: ENLARGED PERSPECTIVES

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Bioenergy has many broad drivers

e.g. Kyoto

Energy for the future: Renewable sources of energy

Directive 2003/30/EC of the European Parliament and of the Council – On the promotion of the use of biofuels or other renewable fuels for transport

But there are wider issues



Bioenergy: Wider Issues

- **Sustainability – economics; environment; social/cultural issues**
- **Externalities – e.g landscape; amenity; biodiversity**
- **Co-products – e.g secondary metabolites**





What is our best plant feedstock?

- **Wood**
- **Surplus cereals**
- **Cellulosic wastes from agriculture/forestry**
- **Municipal waste**
- **A mixture of these**



In our thinking we need to consider:

Which feedstocks

**Total opportunity: Energy component
Co Product Component**

Total (?) sustainability

Integrating energy producing crops/plants into the environment.



