

Biogas Technology for Sustainable Bioenergy Production

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IEA Task 37

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Tekes



Tekes

Biogas projects in Tekes programmes

- **Tekes has funded biogas related projects recently in several programmes:**
 - **Densy - Distributed energy systems technology programme 2003-2007**
 - **Climbus - Mitigation of Climate Change offers new possibilities 2004-2009**
 - **Biorefine - 2007-2012**
 - **Productisation of material flows from biogas processes**
 - **Value chains for biorefineries of wastes from food production and services (Value Waste)**



Biovirta – Productisation of material flows from a biogas process

- Development of technologies and practices for upgrading and sustainable use of material flows from a biogas process
- Project partners: MTT Agrifood Research Finland, University of Jyväskylä, Evira and VTT Technical Research Centre of Finland

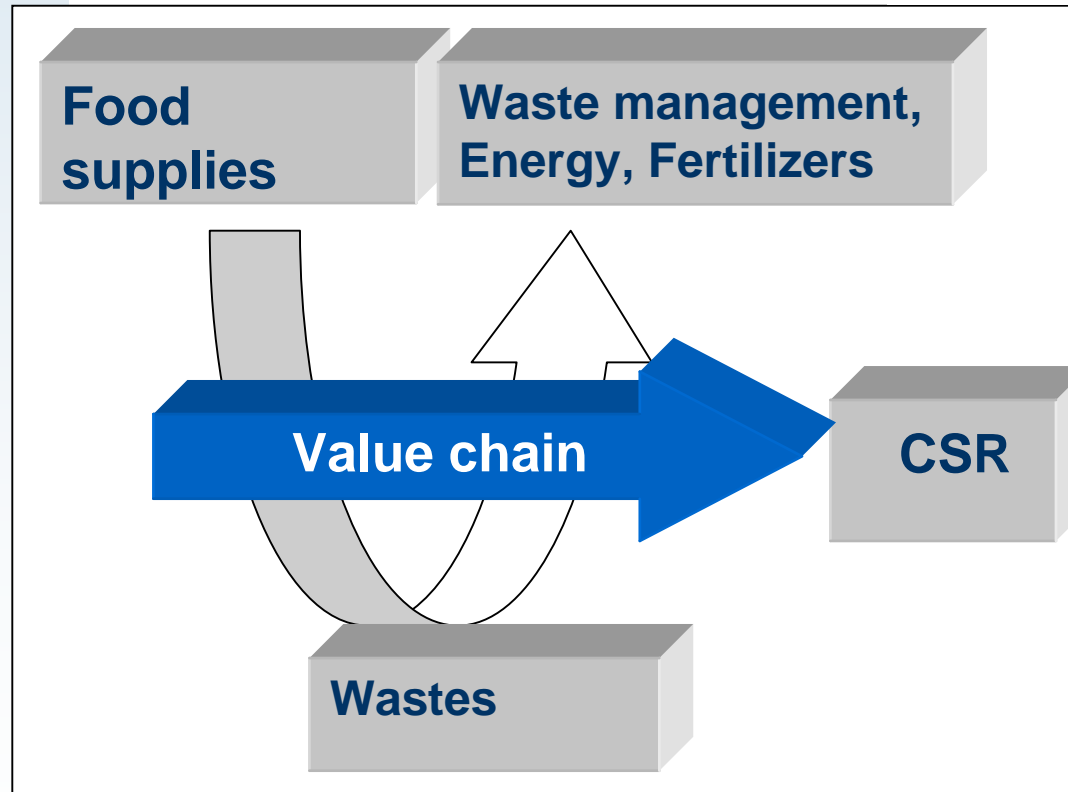


Use of material flows

- Soil enrichment/fertilizer
- Nitrogen fertilizer for industry and agriculture
 - Phosphate fertilizer
- Substrate for greenhouses
- Inorganic nitrogen fertilizer
 - Other uses



ValueWaste – Value chains for biorefineries of wastes from food production and services



- ValueWaste produces business opportunities based on Corporate Social Responsibility (CSR) for processing biowastes of food supply chains to energy, fertilizers and waste management services
- Project partners: MTT Agrifood Research Finland, Lappeenranta University of Technology, Finnish Environment Institute (SYKE) and Helsinki School of Economics



Renewable Energy Programme

- Preparation 1.1. – 30.9.2009
- Result of the preparation: programme or focused activities
- Mainly focused for SMEs
- Activities in the area of
 - Faster commercialisation of new technology
 - Promote companies to international market
 - Information exchange and networking
 - Directed research activities



Renewable Energy Preparation

**5 sectors under the umbrella of
Renewable Energy:**

- **Solar Energy PV and Thermal**
- **Small Scale Wind**
- **Biogas**
- **Small-scale biomass combustion**
- **New openings (open innovation)**
- **Integration**

