



"If you can't find a way, make a way"

(Aut Inveniam Viam aut Faciam): Hanibal

The concept and objectives of PROBIOGAS



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CONTENT:

- What is PROBIOGAS
- Promoters and target groups
- Outcomes
- What we have learnt



What is PROBIOGAS Intelligent Energy



PROBIOGAS:

Promotion of Biogas for Electricity and Heat Production in EU Countries - Economic and Environmental Benefits of Biogas from Centralised Co-digestion

Project duration: 30 months (January 2005 - June 2007)

Budget: EUR 887,178 EC contribution: 50%

WHY PROBIOGAS?

- Project idea based on three decades of RD&D of biogas from centralised anaerobic digestion in Denmark
- Danish study from 2002 quantified socio-economic and environmental effects of co-digestion
- Similar quantification needed in other European countries
- Need to share and further develop biogas knowledge at European level
- Lake of awareness about environmental benefits and business opportunities
- Many biogas projects abandoned at an early stage



WHAT? PROJECT AIM: To promote biogas from anaerobic co-digestion of animal manure and suitable bio-wastes in Europe by knowledge transfer and awareness raising

HOW?

- Assessing and quantifying environmental and socio-economic effects of co-digestion in selected European case study regions
- Identifying incentives and barriers
- Proposing solutions
- Disseminating the results

WHERE? In six European regions (case studies), where biogas is not developed:

- 1. Ireland: North Kilkenny County
- 2. The Netherlands: Bladel, region De Kempen, North Brabant
- 3. Belgium: Province of Liege, Wallonia
- 4. France: West Aveyron, Midi-Pyrénées
- 5. Spain: Pla d'Urgell, Catalonia
- 6. Greece: Sparta, Tsikakis-Yiannopoulos pig farm



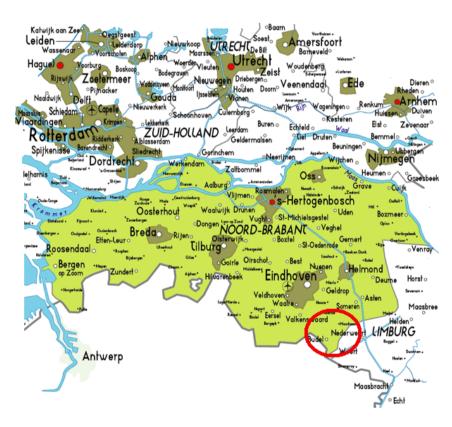
SELECTION CRITERIA FOR THE CASE STUDY REGIONS:

- Intensive animal breeding activity / large amounts of manure and slurries
- Availability of digestible bio-wastes (from agriculture and food industry)
- Environmental problems related to handling and utilisation of manure and bio-wastes
- Interested farmers
- Possibilities of CHP generation and of selling the produced energy
- Possibilities of using digested biomass as bio-fertiliser
- Short transportation distances and good road systems



The Netherlands: Bladel, region De Kempen, North Brabant







Ireland: North Kilkenny County







Spain: Pla d'Urgell, Catalonia







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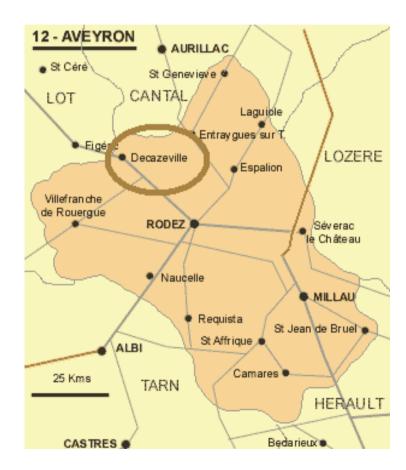






France: West Aveyron, Midi-Pyrénées







Promoters and target groups

MANAGEMENT

1. SDU: University of Southern Denmark, Denmark - Coordinator

CORE GROUP OF EXPERTS

- 2. FOI: Danish Research Institute of Food Economics, Denmark
- 3. RISOE: Risoe National Laboratory, Denmark
- 4. DIAS: Danish Institute of Agricultural Sciences, Denmark
- 5. DAAS: Danish Agricultural Advisory Centre, Denmark

NATIONAL PARTNERS

- 6. SOLAGRO: Association Solagro, France
- 7. CRES: Centre for Renewable Energy Sources, Greece
- 8. SNovem: SenterNovem, The Netherlands
- 9. UB: University of Barcelona, Spain
- 10. MOG: Methanogen Ltd, Ireland
- 11. CRA-W: Agric. Research Centre of Wallonia ValBiom Asbl, Belgium

TARGET GROUP NETWORKS



Promoters and target groups

WHO ARE THE MEMBERS OF TARGET GROUP NETWORKS

- Local farmers, farmers associations
- Policy and decision makers
- Local and regional authorities
- Energy and energy trade companies
- National energy and environmental agencies
- Local food processing industries
- Biogas specialists

Target group networks will form the organisational structure for project generation

Expected outcomes

- Awareness raising
- Incentives and the barriers for target groups identified
- Removal of non technical barriers by new policy initiatives
- Creating a overall favourable frame for biogas from co-digestion

What we have learnt

- Considerable biogas potential
- Many environmental problems management of animal manure and digestible bio-wastes
- Variation of availability and accessibility of data
- Frequent barriers: legislation, policies, public perception, poor economy

Great international interest for the PROBIOGAS project and its outcomes

More information about PROBIOGAS is available at www.sdu.dk/bio and by contacting the project coordinator Teodorita Al Seadi (tas@bio.sdu.dk; tel: +45 6550 4168)

Thank you!

