BioEnergy Farm 2
Small scale biogas conference
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CCS
Introduction to the project
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Project idea
Project idea

BioEnergy Farm 2 “manure, the sustainable fuel for the farm”

• During BioEnergy Farm we discovered an increasing interest in farm scale mono manure digestion.

• BioEnergy Farm2 aims at boosting farm scale manure digestion by sharing information (technical, legislative), feasibility calculators and best practices.
Project idea

Pre-assumptions

• Farms have their own biomass streams
  – Manure
  – Feed left-overs
• Biogas production is higher with fresh manure
  – 10 - 30 % more biogas with day-fresh manure
• Liquid manure is mainly water
  – Transportation is inefficient
    • Energetic
    • Financial
• Ground-bound farmers need fertilizer to spread their fields
Considerations

• Anaerobic digestion started once with manure digestion
  – Co-digestion led to industrialized installations
  – Farm based installations will come back

• The potential is there, the market not yet
  – Mono manure digestion ≠ co-digestion!
  – Mono-manure needs easier permit procedures
  – Subsidies need to be differentiated to small scale

• Simple installations make AD achievable for ordinary farms
  – Reinvention needed of the existing digesters
  – Most countries only have pilot plants running
Project idea

Actions

• Bring relevant stakeholders together
  – Farmers organizations; biogas knowledge centers; universities; consultancy

• Collect relevant data & best practices
  – Legislation, subsidies, manufacturers, etc.

• Share information
  – For farmers
  – For suppliers
  – For governments

• Help farmers
  – Excursions, workshops, business plans
Project consortium
13 partners | 7 countries
Work packages
Work packages

• WP1 Management
• WP2 Market Overview
  – Overview of available and common used techniques
  – Leaflets with best practices
  – Investigation of market potential
• WP3 Funding & Legislation
  – Information on funding options
  – Information about legislation
  – Guideline for policy makers
  – Guideline for farmers
  – Lobbying activities
Work packages

• WP4 Tools
  – Online quick feasibility calculator
  – Offline expert feasibility calculator

• WP5 Training
  – Expert training
  – Training for farmers & farmers advisors
  – International training

• WP6 Implementation
  – Face-to-face advice for farmers
  – Business plan preparation

• WP7 Communication
  – #bioenergyfarm
  – Exhibitions, excursions, flyers, etc.
Deliverables
Deliverables

All deliverables are available at www.BioEnergyFarm.eu

• Reports
  – Market overview report
  – Guideline for farmers
  – Guideline for policymakers

• Leaflets
  – Information on biogas
  – Best practices

• Training material
  – For farmers advisors
  – For farmers
Deliverables

• Online quick feasibility calculator
  – Based on country, #animals, manure type, own energy use

• Offline feasibility calculator
  – 4 scenario`s simultaneously calculated
    • Biogas, Heat, CHP, Bio methane
  – Fully adjustable to every situation

• Business plan tool
  – Imports results from the offline calculator
  – Compiles farm specific business plan
Website
Website

• Biogas portal www.BioEnergyFarm.eu
  – Available in 7 languages
  – All project deliverables
  – Actual information per country
    • Events
    • Legislation
    • Subsidies
Preliminary results
Preliminary results

• Experts trained
  – Approx. 100 in partner countries
    • ½ of trainings to be held

• Farmers trained
  – Approx. 75 in partner countries
    • 2/3 of trainings to be held

• 1,000 online feasibility checks

• >10,000 unique website views
Preliminary results

• Quantified CO$_2$-eq. emission reduction potential
• Identified problems in legislation
  – Solved already in some countries
• Increased awareness of potential
  – At policy level
  – At ‘secondary’ level
  – At farmers level
• New subsidy schemes implemented
  – i.e. France & Italy
Next year
Next year

• Implementation of the project
  – 700 business plans
  – 15 workshops & excursions
  – 5 exhibitions

• Realization of first plants
Thank you for your attention!

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