

BioEnergy Farm 2

Small scale biogas conference

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Jan Willem Bijnagte

CCS



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Introduction to the project



Content

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- Project consortium
- Work packages
- Deliverables
- Website
- Tools



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



Project idea

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 \neq 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



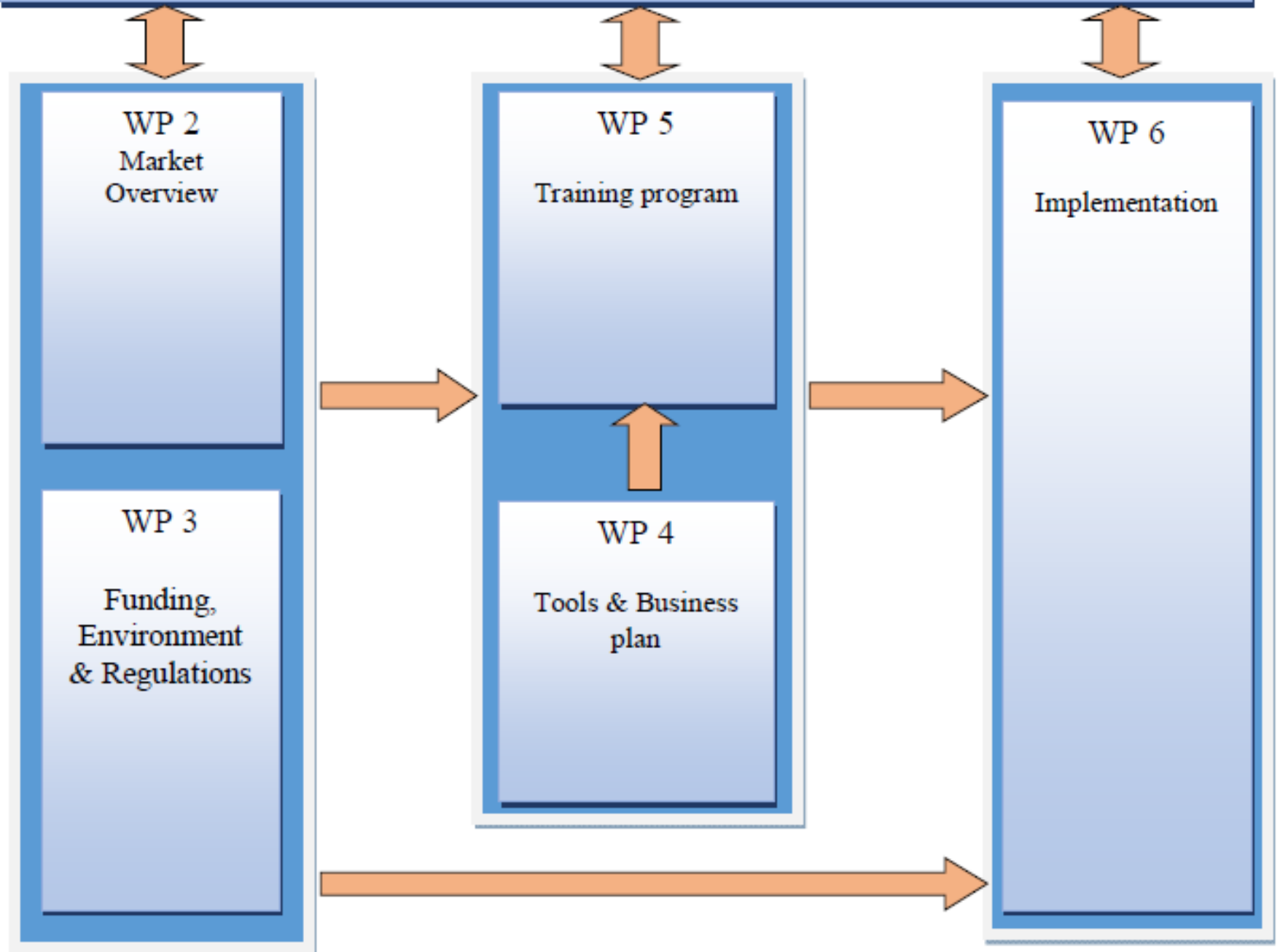
13 partners | 7 countries



Work packages



WP 1 Management + WP7 Communication



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
 - www.BioEnergyFarm.eu
 - #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 CO₂-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!

Jan Willem Bijnagte
Bijnagte@cocos.nl

