



Project Summary

European Biogas Initiative to improve the yield of agricultural biogas plants

EU-Agro-Biogas

Action Line: Cost-effective supply of renewable energies

Contract Type: Specific targeted research projects

Activity area: Biomass

Coordinator:

Organisation: Universität für Bodenkultur Wien
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Project details

Reference:	BioEn/019884/2005	Start Date:	
Status:	Execution	End Date:	30/07/2010
Project Cost (€):	5.969.820	Duration (months):	36
Project Funding (€):	3.900.000		

Summary

The main objectives of the EU-AGRO-BIOGAS Project are to develop and demonstrate a standard methodology to assess the methane yield of several regionally available raw materials as substrates for an agricultural biogas plant, to develop and demonstrate an automatic monitoring, management and early-warning system for agricultural, medium to large scale biogas plants and to optimise and demonstrate innovative approaches to improve biogas yield and energy output at agricultural biogas plants.

The consortium combines know-how from universities, applied research institutions and companies. To ensure an efficient technology transfer into demonstration activities at full scale commercial agricultural biogas plants, selected operators (SMEs) of medium to large scale agricultural biogas plants have already agreed to provide access to their plants, being the main beneficiaries of the project.

The consortium agreed to carry out demonstration activities at existing biogas plants in order to achieve concrete and usable results after 1-2 years. The project focuses on the improvement of the entire biogas production and conversion process, thus, increasing the degree of efficiency in the fermenter and conversion technologies, as well as improving the competitiveness of such plants. A weak-point analysis will generate information about the main critical points at selected agricultural biogas plants. This benchmarking activity will be the basis for the development and demonstration of an automatic monitoring, management and early-warning system for agricultural biogas plants. The main activities in this project are demonstration activities which will take place at selected commercial agricultural biogas plants.

All activities in the EU project aim to improve biogas yield and energy outputs at more competitive costs, which means, an improvement of the biogas yield by about 40% and a cost reduction of between 20 to 30%.



Partners

1	Universität für Bodenkultur Wien	AT
2	Institute of Grassland and Environmental Research	GB
3	Agrotechnology & Food Innovations B.V.	NL
4	KURATORIUM FUER TECHNIK UND BAUWESEN IN DER LANDWIRTSCHAFT.E.V.	DE
5	EC BREC Instytut Energetyki Odnawialnej	PL
6	Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V.	DE
7	Federal Agricultural Research Centre	DE
8	Università degli Studi di Torino - Dipartimento di Economia e Ingegneria Agraria Forestale e Ambientale- Sez. di m	IT
9	Danish Institute of Agricultural Science	DK
10	Research Institute of Agricultural Engineering	CZ
11	Thoeni Industriebetriebe GmbH	AT
12	Hugo Vogelsang, Maschinenbau GmbH	DE
13	GEJenbacher GmbH & Co OHG	AT
14	DI Andreas Moser MES	AT