

NETBIOCOF

Integrated European Network for Biomass Co-firing

Project Description

Biomass co-firing represents, compared to other renewable sources, a technically feasible option with the potential of contributing to the EU energy supply meanwhile ensuring sustainable development. Co-firing of biomass with coal offers several advantages, such as the utilisation of large quantities at low combustion rates in the current combustion systems, lower investments and higher conversion efficiencies compared to systems fired exclusively with biomass. The EC has recognised the need of promoting the use of biomass co-firing in order to comply with the Kyoto Protocol which implies a reduction of 8% of the greenhouse emissions between 2006 and 2012. In spite of numerous successful experiences achieved in Europe, this technology still deserves attention in order to find solutions for technical problems as well as to improve efficiency, reduce costs and emission levels.

Objectives

The overall objective of NetBioCof is to establish a biomass co-firing expert and co-ordination platform in an integrated European level, as well as a network of expertise, which will encourage the unification of efforts for the development of biomass co-firing, by pointing out the future research and the needed synergies in order to make biomass co-firing a reliable, safe, available and durable source of energy. NetBioCof consortium will reach the following objectives:

- ◆ To co-ordinate and support recent research and innovation activities on the European level;
- ◆ To initiate, co-ordinate and guide future R&D activities on the international level;
- ◆ To establish a platform of expertise and to create a biomass co-firing technology database;
- ◆ To develop adequate recommendations for biomass co-firing implementation in targeted European countries, focused on the socio-economic, technological, climate conditions, legal and political requirements.

Description of work

NetBioCof will promote European co-operation between research organisations devoted to the research, development and application of biomass co-firing in new and existing power plants. It will aim the integration and unification of efforts and the exchange of knowledge and expertise between West and East Europe to promote the development and uptake of innovative methods and technologies to expand the use of biomass co-firing. A biomass co-firing expert platform and a co-ordination platform will be established, in order to co-ordinate and assess on-going research and to develop suitable assessment activities with the aim of identifying best practices, gaps in knowledge and barriers to further execution, as well as proposing strategies of implementation and directions for futures research.

In NetBioCof, the full process chain of biomass co-firing will be covered, this includes:

- ◆ Potential Biomass co-firing resources
- ◆ Supply systems
- ◆ Biomass co-firing technologies
- ◆ Environmental, legislative and social issues



The work will be carried on under the following structure:

- ◆ Evaluation of current State-of-the-Art and identification of best practices;
- ◆ Assessment of on-going research and identification of gaps in knowledge;
- ◆ Identification of barriers of implementation;
- ◆ Co-ordination of research and development;
- ◆ Proposal of strategies for implementation;
- ◆ Dissemination and Exploitation;

Expected results

The principal results expected from NetBioCof are:

- ◆ a better co-ordinated European research and development integrated activity in biomass co-firing;
- ◆ the establishment of defined European expert groups in the biomass co-firing field;
- ◆ a network web-site and database platform;
- ◆ a clear guideline of action of future research and development in biomass co-firing and;
- ◆ a set of strategies for the extended use of biomass co-firing to overcome the current barriers.



Project Title	10	KEMA Nederland BV (The Netherlands)
Integrated European Network for Biomass Co-firing (NETBIOCOF)	11	Lk Stmk - Landeskammer für Land- und Forstwirtschaft Steiermark (Austria)
Contract Number	12	IJS - Institut "Jozef Stefan" Energy Efficiency Centre (Slovenia)
SES6-CT-020007-(SES6)	13	ETA - Renewable Energies (Italy)
Duration	14	CIEMAT - Research Centre for Energy, Environment and Technology (Spain)
24 months	15	CRA-W - Walloon Agriculture Research Centre (Belgium)
Global Project Cost	16	NYME - University of West-Hungary (Hungary)
1.149.988,00 EURO	17	EUREC - European Renewable Energy Centres Agency (Belgium)
European Commission Contribution	18	Joint Institute for Power and Nuclear Research "Sosny" (Belarus)
Maximum contribution: 1.149.988,00 EURO	19	Scientific Engineering Centre "Biomass" (Ukraine)
EUBIA Contribution	20	TUBITAK Marmara Research Centre (Turkey)
EUBIA is evaluating the state of the art and identifying best practices for biomass co-firing technologies, assessing ongoing research, identifying gaps in knowledge and barriers of implementation, as well as making recommendations for future research and a road map of strategies for technology implementation. EUBIA is also participating in the disseminating process for the project.	21	TUS - Technical University of Sofia (Bulgaria)
	22	Lithuanian Forest Research Institute (Lithuania)
	23	MB Finishing Engineering, (Germany)
	24	TNO Science and Industry (Netherlands)
	25	Elsam Engineering A/S (Denmark)

Project Website

<http://www.netbiocof.net/>

Participants

- 1 TTZ - Technologie Transfer Zentrum Bremerhaven (Germany) - Coordinator
- 2 EUBIA - European Biomass Industry Association (Belgium)
- 3 SLU - Swedish University of Agricultural Sciences (Sweden)
- 4 EAU - Estonian Agricultural University (Estonia)
- 5 IChPW - The Institute for Chemical Processing of Coal (Poland)
- 6 BIOAZUL S.L. (Spain)
- 7 VVT - Technical Research Centre of Finland (Finland)
- 8 "Politehnica" University of Timisoara (Romania)
- 9 BMP Biomasse Projekt GmbH (Germany)



SIXTH FRAMEWORK PROGRAMME



HORIZONTAL ACTIVITIES INVOLVING SMEs

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