

## **EUBIONET II - Efficient trading of biomass fuels and analysis of fuel supply chains and business models for market actors by networking**

The project aims to increase deployment of biomass fuels into European market and match technology uptake through market and policy analysis and a number of well-defined tasks to meet European policy targets in renewable energy sector. The project results will lead to increased use of biomass fuels and market uptake of innovative bioenergy technologies.

The objectives of the project are the following:

- to give a clear outlook of current and future biomass fuel market trends
- to give feedback on the suitability of CEN 335 biofuel standard for trading of biofuels
- to give well-analysed estimation on techno-economic potential of the biomass fuel volumes till 2010 based on the existing studies and experts opinions. In forest biomass sector co-operation will be done also with forest industry stakeholders to find a proper balance between forest industry raw material and bioenergy use
- to enhance biomass fuel trade and technology transfer by networking of different actors
- to analyse, select and describe the most suitable trading and business models for small and large scale biofuel supply chains for heat and power production by taking into account the environmental aspects and sustainability
- to enhance biomass use by co-operation and information dissemination with different market actors in the fuel-utilisation chain

Target groups are biomass fuel traders and users, fuel producers and suppliers of different scales, policy takers in both current and new member states. Key associations, AEBIOM and CEPI are participating in the project and disseminating information to various groups. These are European Bioenergy Association, AEBIOM reaches 4000 members in 25 European countries and Confederation of European Paper Industry, CEPI reaches entire forest industry sector in Europe. The project has been structured in 5 WPs. Project is carried out by 16 partners, which are key national bioenergy organisations in the European countries and have long co-operation relationship in previous networks.

In WP1 the current situation and future trends in biomass fuel trade in Europe is rated. The aim is to assess the economically and technically viable volume of solid biomass fuels (woody, agrobiomass, some waste fractions) using the specification of CEN TC 335 on solid biofuels. Both raw material and bioenergy needs are taken into account. This study will bring biofuel trade experts together to evaluate the utilisation potential. Also information on price levels and trends for different fuels (also the main fossil fuels, for comparative reasons) are collected during 2 years period. Import-export of biofuels is also analysed. National reports, lists of traders and summary reports will be published.

In WP2 different fuel production methods and business models will be analysed by using systematic approach. Different methods will be selected and described. Analysis includes raw material, technology, social and economic aspects, production costs, organisation models, marketing, contracting, fuel quality and quality control. Recommendations on suitability of the method for other countries or sectors will be made. Most suitable methods will be produced as a guideline. Policy, definitions, classifications and prices for biomass and waste differ from country to country. These differences implicate the implementations of the various EU Directives in the member states.

In WP 3, it will be established what are the differences from the perspective of legislation and what are the major driving forces.

WP4 carries out dissemination (events, newsletters, articles, study tours, training) and co-operation.

WP5 co-ordination and management of the project.

Deliverables of the project are:

- National reports of biomass resources availability, fuel market and prices, exports and import of biomass and experiences of standards
- Listing of the key biomass fuel traders in Europe
- Summary report of the Biomass fuel market situation in Europe
- Feedback report on CEN biofuel standardisation usability in biomass trade
- Analysis and descriptions of different fuel supply chains and business models including technical, socio-economic and suitability aspects
- List of technology providers and description of technology for different biofuel supply chains and business models
- Guidelines for selection of different biomass business models for different fuels and end-users
- Summary report of the national findings on implications of the EU legislation for biomass markets in participating countries
- Web site (<http://www.eubionet.org> or similar) and links to other European bioenergy web-pages
- All reports are publicly available on EUBIONET website
- Promotion material of the project (brochures and 4 flyers)
- 10 published articles in leading bioenergy journals e.g. Biomass News, BoisEnergie of ITEBE, Bioenergy International or papers presented at conferences
- Proceedings and feedback of 4 international events organised by the project. CEPI will disseminate project results in the CEPI Focus and European pulp and paper event
- 5 study tours on biomass production, user or trading organised and feedback collected virtual training material on web from fuel supply chains
- Information material generated by national events mainly in national language

The project will result in:

- review of market and policy analysis of the European biofuel trade and potential estimation for future trading
- giving a good basis of sustainable and environmentally sound biofuel trade in the future
- giving a good basis for a proper balance between forest-based industry raw material and bioenergy use
- establishment of continuous fuel prices collecting systems in several countries
- future development of biofuel standards based on the experiences collected from biofuel traders
- recommendations and guidelines for efficient business models for different fuels and user groups small and large scale
- summarizing effects and driving forces for the implementation of new EU Directives
- co-operation and broad dissemination of the results by publications, seminars, workshops and web-page and by using associations having several thousands of members

Further information:

Eija Alakangas  
VTT Processes, P.O. Box 1603  
FIN-40101 Jyväskylä (Koivurannantie 1)  
tel. +358-14 672 550  
E-mail [eija.alakangas@vtt.fi](mailto:eija.alakangas@vtt.fi)