An introduction to the pioneer

Bioenergy4Business project

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The international Bioenergy4Business (B4B) project, funded by the Horizon 2020 Framework Programme of the European Union, supports and promotes the partial substitution of fossil fuels used for heating with available bioenergy sources, such as by-products of the wood-based industry, forest biomass, pellets, straw and other agricultural biomass products. This ambitious European project is currently targeting 10 EU countries and Ukraine. Presently, European businesses are dependent on coal, oil and natural gas, which are often imported from politically unstable regions: B4B aims at moving on and at helping businesses exploit the sustainable and considerable economic potential of European bioenergy heat.

B4B not only wants to convince stakeholders of the opportunities that are created by local value chains for bioenergy heat, but also targets policy makers, encouraging and – in some cases – speeding up the development of policy frameworks for sustainable, profitable and high-quality bioenergy heat. The project contributes to the achievement of the 2020 RES targets in the EU member states and paves the way for the use of bioenergy heat beyond 2020.

THE PLAN AND THE OBJECTIVES

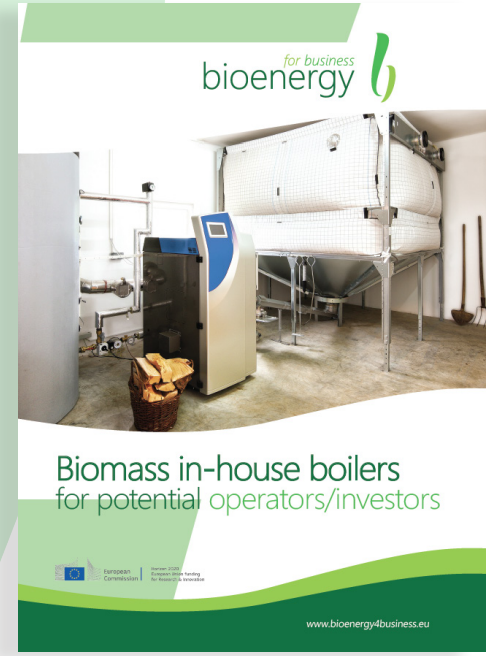
B4B is also meant to show investors and operators how biomass can be used in an energy-efficient and cost-effective way. Sound business and financing models are already in place in several of the targeted countries, but more efforts are needed to build an enabling, fertile environment that can allow bioenergy to face the fossil fuel challenge – and to substitute the use of fossil fuels for heating whenever and wherever possible, both in district heating and in-house applications. To achieve this, it is key to deliver sound, reliable know-how on both the supply and use of biomass – and to advise businesses in preparing business strategies and models. To do so, B4B plans to train developers, consultants, heat operators and energy services companies to assess and develop projects in communities with district heating and in sectors where heat is auto-produced.

The training activities are related to three to four national heat markets that were identified as the ones that are most promising and prone to switch to biomass – an effort that spreads over of the 11 target countries. The first national training seminars will take place in April or May. They will be focused on (one of the) identified in-house bioheat target markets. Two further national training seminars will follow in the 2nd semester of 2016. For more information on the national training activities and promising market segments please see Annex 1 below for the contact details of your national bioenergy partner.

PUBLICATIONS AVAILABLE

Several publications currently are available on the Bioenergy4Business website www.bioenergy4business.eu:

- 11 country reports and an overall summary report on the most promising bioheat target markets identified in the target countries;
- Brochure on Biomass In-House Boilers for Potential Operators/Investors
- Report on bioenergy framework conditions for 11 target countries;
- Comparative Analysis of Barriers, Opportunities and Needs of Promising Market Segments;
- Report on bioenergy business models & financing conditions for 11 target countries;
- Report on guidelines for high quality planning of bioenergy systems;
- Report on best practice examples of biomass utilization for heat purposes;
- Model contract for biomass delivery;
- The Tool for the Calculation of Solid Biofuel Parameters (multi-lingual) facilitates the conversion from prices per volume or weight unit commonly used in forestry and the timber industry to energy prices relevant in the context of energy production;
- The Biomass plant dimensioning tool provides an estimate of biomass boilers size based on present fuel consumption or building size and insulation level.



The most recent publications are brochures for biomass suppliers and (auto-production and district) biomass heat plant operators.

WHAT ARE THE BROCHURES ABOUT?

In the first semester of 2016, B4B has collected enough information to prepare and deliver a series of three brochures in the partner countries. Printed versions of the three brochures will soon be delivered to your national contact point: we invite you to get in touch with your national bioenergy partner to order a free printed copy of the brochures (see Annex 1 for the contact details of your national bioenergy partner) or to download them here.

The first brochure "Biomass in-house boilers for potential operators/investors" is reviewing different boiler types used for in-house heating applications. Furthermore, different fuel types and their handling, planning and installation and numerous examples of successful implementation/conversion of biomass in-house boilers are presented.

The second brochure "Supply of solid biofuels for mid-scale heat plants" presents market requirements, biomass resources, biofuel production and recommendations for biofuel suppliers with respect to mid-scale heat plants. The technical information is supplemented with best practice examples.

The third brochure "Biomass Utilization in District Heating Plants" is providing basic technical rules for the design and running of a biofuel driven district heating system. This include fuel selection and storage, boiler and feeding systems, ash handling, safety aspects and quality management. The information given in the brochure is complemented with a series of examples of biomass driven district heating plants in Europe.

ANNEX: CONTACTS

AUSTRIAN ENERGY AGENCY (OSTERREICHISCHE ENERGIEAGENTUR)
Austria
http://en.energyagency.at

AEBIOM (THE EUROPEAN BIOMASS ASSOCIATION)
Belgium/Europe
www.aebiom.org

CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FONDATION
(CRES)
Greece
www.cres.gr/kape/index_eng.htm

DEUTSCHES BIOMASSEFORSCHUNGSZENTRUM GEMEINNUETZIGE GMBH (DBFZ)
Germany
www.dbfz.de/aktuelles.html

KRAJOWA AGENCJA POSZANOWANIA ENERGII SA
(KAPE)
Poland
www.kape.gov.pl/index.php/pl

ROMANIAN ASSOCIATION OF BIOMASS AND BIOGAS (ARBIO)
Romania
www.arbio.ro/en/#all

SLOVENSKA INOVACNA A ENERGETICKA AGENTURA (SIEA)
Slovakia
www.siea.sk

NACIONALNA ASOCIACIA PO BIOMASA (BGBIOM)
Bulgaria
http://bgbiom.org

SCIENTIFIC ENGINEERING CENTRE "BIOMASS" LTD
(SCIENTIFIC ENGINEERING CENTRE)
Ukraine
http://biomass.kiev.ua/en

ENERGETSKI INSTITUT HRVOJE POZAR
(EIHP)
Croatia
www.eihp.hr

MINISTERIE VAN ECONOMISCHE ZAKEN
The Netherlands
www.rijksoverheid.nl/ministeries/ministerievan-economische-zaken

MOTIVA OY
Finland
www.motiva.fi/en

TEKNOLOGISK INSTITUT (DTI)
Denmark
www.dti.dk

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