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D1.9: Links to other European and international initiatives and projects

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Project coordinator: ttz Bremerhaven

Project website address: www.rokwood.eu

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Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



Table of Contents

Links to other European and international initiatives and projects.....	4
1 ACCESS: Accelerated Penetration of Small-Scale Biomass and Solar Technologies.....	4
2 AGRIFOREENERGY 2: Promoting and securing the production of biomass from forestry and agriculture without harming the food production.....	4
3 AQUATERRE: Integrated European Network for biomass and waste reutilisation for Bioproducts	5
4 BAP DRIVER: Leveraging the development of national biomass strategies & action plans, based on a balanced assessment.....	6
5 BASIS: Biomass Availability and Sustainability Information System	7
6 BEN: Biomass energy register for sustainable site development for European Regions.....	8
7 Benwood: Coordination actions in support of sustainable and eco-efficient short rotation forestry in CDM countries	9
8 BIOBUSINESS: Business opportunities in biomass sector for SMEs	10
9 BioEnergy Farm : Farm profitable for farmers	10
10 BIOHEAT: Promotion for Short Rotation Coppice for District Heating Systems in Eastern Europe	11
11 BIOMASS FUTURES: Biomass role in achieving the Climate Change & Renewables EU policy Targets. Demand and Supply dynamics under the perspective of Stakeholders.....	12
12 BIOMASSTRADECENTRES: Supporting the organization of spot markets supply for wood chips and firewood	12
13 BIOPROS: Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations.....	13
14 CHP GOES GREEN: Model cities promote green CHP - Pacemakers for renewable energies...	14
15 CROSSBORDERBIOENERGY: Cross-border markets for the European bioenergy industry	15
16 DEBCO: DEMonstration of large scale Biomass Co-firing and supply chain integration	15
17 ENCROP: Promoting the production and utilisation of energy crops at European level	16
18 Euwood - Real potential for changes in growth and use of EU forests.....	17
19 Expert Consultation "Short Rotation Forestry, Short Rotation Coppice and perennial grasses in the European Union: Agro-environmental aspects, present use and perspectives"	17
20 FOREST: FOsteRing Efficient long term Supply parTnerships.....	18
21 GLOBAL-BIO-PACT: Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability	19
22 IEA Bioenergy: Task 30: Short Rotation Crops for Bioenergy Systems.....	20



23	IEA Bioenergy: Task43: Quantifying environmental effects of Short Rotation Coppice (SRC) on biodiversity, soil and water. 2011	20
24	IEA Bioenergy: Task43: Screening Life Cycle Analysis of a Willow Bioenergy Plantation in Southern Ontario. 2012.....	21
25	IEA Bioenergy: Task43: Short Rotation Coppice Willow Best Practice Guidelines. IEA Bioenergy: Task43: 2012:03	21
26	NOE-BIOENERGY: Overcoming Barriers to Bioenergy.....	22
27	PELLETS@LAS: market data about pellet producers, traders and consumers.....	22
28	RATING-SRC - Reducing environmental impacts of SRC through evidence-based integrated decision support tools.....	23
29	Rod-Picker : automatic harvesting system for SRC nurseries that includes the sorting and packing of the cuttings	23
30	Short Rotation Forestry Trial in England	24
31	SRC-NETWORK: market and information platform	24
32	TREES4FUTURE : Research infrastructures for forestry research	25
33	WACOSYS: Monitoring and control system for waste water irrigated energy plantations	25
34	Wales Energy Crops Information Centre: energy crops information centre	26
35	Willow for Wales	26
36	QUALITY WOOD: Increased deployment of firewood by improving fuel quality and low emission combustion	27



Links to other European and international initiatives and projects

1 ACCESS: Accelerated Penetration of Small-Scale Biomass and Solar Technologies

Coordinator:	Angel Nikolaev Black Sea Regional Energy Centre , Bulgaria
Supporting institutions:	SEVEn, Stredisko pro efektivni vyuzivani energie, o.p.s. (SEVEn) , Czech Republic Centre for Renewable Energy Sources (CRES) , Greece Innoterm Energetikai és Környezetvédelmi Fejlesztő Kft. , Hungary Institute for Studies and Power Engineering (ISPE) , Romania BIOMASA, zdruzenie právnických osôb , Slovakia
Short abstract:	The ACCESS project addresses small-scale technologies that utilise biomass and solar energy for heating and hot-water supply in dwellings with individual and local heating systems in Bulgaria, Czech Republic, Hungary, Romania, and Slovakia. The project aimed to contribute to the large scale market penetration of these technologies by 1) developing a virtual market network; 2) exploring systematically the biomass energy potential and perspectives for its increase; 3) developing a method for the identification of optimal combined schemes; 4) promoting standards for both the concerned technologies and biomass products; 5) developing training courses; 6) elaborating optimal financing schemes; 7) dissemination activities.
Web reference:	
Contacts:	Angel Nikolaev Black Sea Regional Energy Centre , Bulgaria E-mail: office@bsrec.bg Tel: 00359 2 9806854

2 AGRIFOREENERGY 2: Promoting and securing the production of biomass from forestry and agriculture without harming the food production

Coordinator:	Mr Christian Metschina Chamber of Agriculture and Forestry in Styria , Austria
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Supporting institutions:	European Biomass Association , Belgium Council Of The Bulgarian Agricultural Organisations , Bulgaria Technical Research Centre of Finland , Finland Lower Saxony Network for Renewable Resources 3N , Germany Italian Agriforestry Energy Association (AIEL) , Italy Slovenian Forestry institute , Slovenia Energy Agency for Southeast Sweden Ltd , Sweden
Short abstract:	<p>Based on the successful project Agri for Energy, where the main aim was to stimulate farmers to enter the European Bioenergy market, the targets of the follow-up project Agri for Energy 2 are going one step further. One of the main problems is the lack of communication between the energy supply side and the customers. In order to make investments happen and bioenergy plants set-up, the approach is to organise workshops, study tours and one-to-one meetings in European target regions. Workshops allow potential bioenergy providers (e.g. farmers and cooperatives, forest owners, forest entrepreneurs) and potential end-users to meet and gain awareness of their respective offers and requirements. Study tours allow these actors to gain confidence in bioenergy businesses by visiting real bioenergy plants. One-to-one meetings allow going one step further, by gathering around the same table committed actors from the supply and the demand side, where they will explore in further detail a business case, with the technical support of project partners.</p>
Web reference:	www.agriforeenergy.com
Contacts:	Mr Christian Metschina Chamber of Agriculture and Forestry in Styria , Austria E-mail: christian.metschina@lk-stmk.at Tel: 0043 316 8050 1410

3 AQUATERRE: Integrated European Network for biomass and waste reutilisation for Bioproducts

Coordinator:	UNIV. AKUREYRI – Islanda	
Supporting institutions:	UNIV. BODENKULTUR WIEN	Austria
	EUROPEAN BIOMASS INDUSTRY ASSOCIATION	Belgio
	UNIV. AGRICULTURAL	Bulgaria
	UNIV. TECHNICAL DENMARK	Danimarca
	EUROPEAN FOREST INSTITUT	Finlandia
	CHAMBRE D'AGRICULTURE DU CENTRE	Francia
	BIOZOON GMBH	Germania
	CENTIV GMBH	Germania
	UNIV. AKUREYRI	Islanda

	ENEA LEI LITHUANIAN ENERGY INSTITUTE PROCEDE BIOMASS BV NORTH WALES MOULDINGS LTD UNIV. TECHNICA DIN CLUJ-NAPOCA UNIV. SANTIAGO DE COMPOSTELA HOEGSKOLAN KRISTIANSTAD UKRAINIAN SCIENTIFIC AND RESEARCH INSTITUTE OF ECOLOGICAL PROBLEMS	Italia Lituania Paesi Bassi Regno Unito Romania Spagna Svezia Ucraina
Short abstract:	<p>AquaTerrE will promote the cooperation between research centres, business and other stakeholders in Europe devoted to the research, development and application of biomass and biofuel production and valorisation. It will aim integration and unification of efforts and the exchange of knowledge and expertise between partners, to promote the creation of a network for improving biomass and waste reutilisation. Mainly, AquaTerrE aims to make an inventory of existing biomass feedstocks in Europe and quantify the potential and identify of the best ones. In addition, to study the best possibilities for implementing different biomass sources in different environments to improve their utilisation. Pursuing this target, literature and data survey and current research review will be carried out. Furthermore, the scope of AquaTerrE consists also in mapping European biomass feedstocks using different tools as Geographical Information Systems (GIS). Additionally, AquaTerrE expert members will identify economic and environmental impacts schemes to define the optimum Life Cycle Assessment (LCA). LCA is a standardized and structured method for calculating the environmental load of a product, process or activity throughout all its phases.</p>	
Web reference:	http://www.aquaterre.info/	
Contacts:		

4 BAP DRIVER: Leveraging the development of national biomass strategies & action plans, based on a balanced assessment

Coordinator:	Michael Herr Deutsche Energie-Agentur GmbH , Germany
Supporting institutions:	European Biomass Association (AEBIOM) , Belgium Vlaamse instelling voor technologisch onderzoek N.V. , Belgium Agence de l'Environnement et de la Maîtrise de l'Energie (ADEME) , France eclareon GmbH , Germany Centre for Renewable Energy Sources (CRES) , Greece NL Agency , Netherlands Krajowa Agencja Poszanowania Energii S.A. (KAPE) , Poland Institutul de Studii si Proiectari Energetice , Romania

	Agencija za prestrukturiranje energetike d.o.o. , Slovenia
Short abstract:	The promotion of bioenergy is a top priority on the political agenda of the EU and most member states. However, the progress in terms of actual market deployment is still dissatisfactory. Many of the existing market barriers have their origin in insufficient policy frameworks on the national level. Recent policy initiatives aim at overcoming these barriers, including the European Biomass Action Plan (BAP). The process of developing country-specific BAPs is the starting point for this project. Its aim is to foster an integrated view of policy makers on biomass promotion and to leverage the formulation and implementation of consistent national biomass strategies and action plans in EU member states, thus, help fulfilling the European BAP.
Web reference:	www.bapdriver.org
Contacts:	Michael Herr Deutsche Energie-Agentur GmbH , Germany E-mail: herr@dena.de Tel: +49 30 72 6165 696

5 BASIS: Biomass Availability and Sustainability Information System

Coordinator:	European Biomass Association , Belgium
Supporting institutions:	Österreichischer Biomasse-Verband , Austria DI , Denmark Syndicat des Energies Renouvelables , France Bundesverband BioEnergie e.V. (BBE) , Germany Eclareon Ltd. (Eclareon) , Germany Associazione Italiana Energie Agroforestali (AIEL) , Italy Asociación Española de Valorización Energética de la Biomasa , Spain Svenska Bioenergiföreningens Service Aktiebolag , Sweden Imperial College London - Department for Civil and Environmental Engineering , United Kingdom
Short abstract:	BASIS is proposed by the European Biomass Association, Imperial College London, a consultancy (eclareon) and 7 national biomass associations in Austria, Denmark, France, Italy, Germany, Spain and Sweden. BASIS aims at interacting with bioenergy project developers and investors (WP7), providing them with a comprehensive view on the sustainable supply and competition for wood for wood chips boilers, using intuitive maps of NUTS2 regions of all EU27 member states (WP6). Information on wood supply potential combined with existing use of wood chips (WP 3) and sustainability aspects influencing such supply (WP 4) is processed on the basis of a sound methodology (WP 2). Because the project is focused on biomass supply, it is a perfect complement to the project Cross Border Bioenergy that will be updated (WP

	5) and provides results on the attractiveness of markets for heat and electricity. The core idea of the project is to provide in-depth information on the regional supply and demand of wood chips through a comprehensive and easy to use GIS tool. As a result BASIS will strongly increase market transparency in the wood chip markets: 1) Project developers will use BASIS in combination with the results of Cross Border Bioenergy to find attractive locations for new projects; 2) Investors will use BASIS for the risk assessment of projects in pre-development stage to assess whether a region has enough feedstock potential for a sustainable supply of wood chips over the investment period; 3) Feedstock suppliers will use it to find new customers and develop their biomass supply; 4) National and regional policy makers as well as the EU Commission are provided with a comprehensive overview of biomass use in plants above 1 MW capacity, bioenergy conversion efficiency as well as a detailed insight on sustainability aspects from a market perspective.
Web reference:	www.aebiom.org
Contacts:	

6 BEN: Biomass energy register for sustainable site development for European Regions

Coordinator:	Ms Simone Krause Fraunhofer Institute for Environmental, Safety and Energy Technology ,
Supporting institutions:	European Centre for Renewable Energy Guessing Ltd (EEE) , Austria WiN Emscher-Lippe / Business Promotion Office for Structural Advancement (WiN) , Germany Biomass Research Centre (CRB) , Italy Institute for Ecology of Industrial Areas (IETU) , Poland The Gostynin Lake District Tourist Communes Association (StowGmin) , Poland Rural Development Initiatives Ltd , United Kingdom
Short abstract:	The utilisation of biomass as a renewable energy source which is locally available and storable, offers the opportunity to regional authorities to actively participate in the energy planning of their region. Within the three-year project BEN a user-friendly regional energy planning tool which describes the real conditions, facilitates planning steps and supports decision-making was developed. The so called biomass energy register visualises regional energy sinks and energetic potentials of biomass. Locally available data was collected, standardised and transferred into an internet-based Geographical Information System (GIS). Based on this register, the local boards jointly with further actors collaborating in a network developed regional masterplans for the sustainable utilisation of biomass including guidance notes for management, technology and financing of biomass energy investments. The project BEN was performed in 4 model regions representing different biomass sector development stages (North West/U.K., Emscherippe/Germany, Pojezierze Gostyninsko-Wloclawskie/Poland and Umbria/Italy)



Web reference:	www.ben-project.eu
Contacts:	<p>Ms Simone Krause Fraunhofer Institute for Environmental, Safety and Energy Technology, Germany E-mail: simone.krause@umsicht.fraunhofer.de Tel: 0049 (0) 208 8598 1136</p> <p>Mr. JanuszKrupanek ietu@ietu.katowice.pl phone: +48 (0)32 254 60 31</p>

7 Benwood: Coordination actions in support of sustainable and eco-efficient short rotation forestry in CDM countries

Coordinator:	energieautark consulting gmbh
Supporting institutions:	energieautark consulting gmbh (Austria), Alasia New Clones (Italy), Kochanska-Dubas Jolanta (Poland), University of Zagreb, Faculty of Forestry (Croatia), University of Göttingen, Faculty of Agricultural Sciences, Department of Crop Sciences, Section Agricultural Engineering (Germany), Kompetenzzentrum HessenRohstoffe e.V. (Germany), Punjab Agricultural University, Dept. of Forestry and Natural Resources (India), The Plantar Group (Brazil), Bioenergy 2020+ GmbH (Austria), Swedish University of Agricultural Sciences, Department of Crop Production Ecology (Sweden), School of Environment and Natural Resources, Bangor University (United Kingdom), International Centre for Research on Agroforestry (ICRAF) (India), Beijing Forestry University, Institute of Wood-based Material Science (China), University of Natural Resources and Applied Life Sciences, Department of Applied Plant Sciences und Plant Biotechnology, Institute of Agronomy and Plant Breeding (Austria)
Short abstract:	<p>The Benwood is a research project within the 7th Framework Programme (FP7) of the European Union promoting the exchange of experience among researchers and project developers in the area of Short Rotation Forestry (SRF).</p> <p>The project touches also the closely related field of Agroforestry.</p> <p>Focus is on developing countries and on SRF projects in the framework of the Kyoto protocol (CDM and JI).</p>
Web reference:	http://www.benwood.eu
Contacts:	<p>DI Thomas Lewis Hauptstraße 27/3 A-1140 Wien (FN 279691 k) Tel. (mobile).: +43-650-849.873.6 Tel.: +43-1-577.15.68-11</p>



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8 BIOBUSINESS: Business opportunities in biomass sector for SMEs

Coordinator:	Juan Carlos Martinez Barrio Asociacion para la Gestion del CEEI-Burgos , Spain
Supporting institutions:	HERMIA Business Development Ltd. , Finland BIC Frankfurt (Oder) GmbH , Germany Business and Innovation Centre Nordthüringen GmbH , Germany INNOSTART Nemzeti Üzleti és Innovációs Központ , Hungary Razvojna Agencija Sinergija d.o.o. , Slovenia Asociación Agencia Provincial para el Control de la Energía de Burgos , Spain
Short abstract:	<p>Analysis of the business opportunities within biomass sector, specially aiming at entrepreneurs and SMEs. Biobusiness will focus on the creation and growth of biomass related enterprises as the basis for economic regeneration of the regions concerned, including its most depressed rural areas. Partners of the project, regional industrial development agencies, energy management agencies and Public Administrations will work also alongside existing renewable energy related SMEs to develop scenarios for creating a critical mass of new enterprise. In parallel an inventory of biomass resources, a study of trends in biomass related enterprises, a technology transfer and market opportunities investigation, and a state-of-the-art investigation on legal frameworks, will asses the situation for a recommendation paper to be done. The project outcome should be a replicable methodology for the development of biomass as one of the most important renewable energies, as well as a blueprint for biomass-related industrial development in other European areas.</p>
Web reference:	www.euro-biomass.com
Contacts:	Juan Carlos Martinez Barrio Asociacion para la Gestion del CEEI-Burgos , Spain E-mail: jcmartinez@ceeiburgos.es Tel: 0034 947244332

9 BioEnergy Farm : Farm profitable for farmers

Coordinator:	Cornelissen Consulting Services B.V.
Supporting institutions:	EACI



Short abstract:	The BioEnergy Farm project is concerned with increasing the use and production of bioenergy and biofuels in agriculture (mainly SRC)
Web reference:	www.bioenergyfarm.eu
Contacts:	Anna Wiszniewska awiszniewska@nape.pl phone: +48 22 50-54-569

10 BIOHEAT: Promotion for Short Rotation Coppice for District Heating Systems in Eastern Europe

Coordinator	ttz Bremerhaven, BIOAZUL	
Supporting institutions:	1 CZ-BIOM (Czech Republic) 2 BIOAZUL (Spain) 3 ttz Bremerhaven (Germany) 4 POLITEHNICA University (Romania) 5 SK-BIOM (Czech Republik) 6 EKSPERT-SITR (Poland) 7 LITBIOMA (Lithuania) 8 LDHA (Lithuania)	
Short abstract:	BIO-HEAT will boost the use of biomass as a sustainable energy source for already existing district heating systems in Eastern Europe and connects the project partner via website to achieve an information exchange. Furthermore, the project will improve the regional economy by creating regional value-added-chains and additionally the production of harmful emissions will be reduced. The overall objective of the BIO-HEAT project is providing a reliable solution for substituting the fossil fuels used as energy sources for DH systems by sustainable and harmless alternatives through promotion and dissemination, aiming to set up new regional SRC to DH chains.	
Web reference:	http://bio-heat.eu/en/	
Contacts:	Malte Trumpa ttz Bremerhaven +49 (0) 471 4832 203 mtrumpa@ttz-bremerhaven.de Magdalena Lewicka m.lewicka@ekspert-sitr.pl phone: +48 94 342-25-81	Pilar Zapata Aranda BIOAZUL S.L. Severo Ochoa 7 (Edificio de Módulos Tecnológicos) 29590 Campanillas, Málaga, Spain Phone: +34 951 047 290 Fax: +34 951 047 353 E-mail: pzapata@bioazul.com



11 BIOMASS FUTURES: Biomass role in achieving the Climate Change & Renewables EU policy Targets. Demand and Supply dynamics under the perspective of Stakeholders

Coordinator:	Dr Calliope Panoutsou Imperial College of Science, Technology and Medicine , United Kingdom
Supporting institutions:	International Institute for Applied Systems Analysis (IIASA) , Austria Forseo GmbH , Germany Institute for applied Ecology (Oeko) , Germany Centre for Renewable Energy Sources (CRES) , Greece Institute Of Communication And Computer Systems , Greece Alterra b.v. , Netherlands Energy research Centre of the Netherlands (ECN) , Netherlands Institute For European Environmental Policy , United Kingdom
Short abstract:	The project aims to quantify the sustainable role biomass can play to meet the RESD targets for 2020. To do so, the consortium will work through a series of interrelated work packages in order to provide a better understanding of bioenergy demand and supply dynamics, and to what extent and how a sustainable production and use of domestic and imported biomass sources can contribute to EU27 energy needs. The project will be executed in close collaboration with key stakeholders to identify sustainable options for bioenergy development and deployment to the year 2030, and to increase awareness about the opportunities and the risks, and how these can be addressed.
Web reference:	www.biomassfutures.eu
Contacts:	Dr Calliope Panoutsou Imperial College of Science, Technology and Medicine , United Kingdom E-mail: c.panoutsou@imperial.ac.uk Tel: +44-20-75946781

12 BIOMASSTRADECENTRES: Supporting the organization of spot markets supply for wood chips and firewood

Coordinator:	Valter Francescato Associazione Italiana Energie Agroforestali , Italy
Supporting institutions:	Landeskammer für Land- und Forstwirtschaft Steiermark , Austria Landeskammer für Land- und Forstwirtschaft Steiermark , Austria Waldverband Steiermark GmbH (WVB-Stmk GmbH) , Austria Waldverband Steiermark GmbH (WVB-Stmk GmbH) , Austria Agenzia Regionale per lo Sviluppo e l'Innovazione nel settore Agricolo-forestale , Italy Agenzia Regionale per lo Sviluppo e l'Innovazione nel settore Agricolo-forestale , Italy Garfagnana Ambiente e Sviluppo , Italy



	Garfagnana Ambiente e Sviluppo , Italy Polskie Towarzystwo Biomasy , Poland Polskie Towarzystwo Biomasy , Poland Gozdarski inatitut Slovenije - Slovenian Forestry institute , Slovenia Gozdarski inatitut Slovenije - Slovenian Forestry institute , Slovenia
Short abstract:	<p>One of the biggest challenges on national and international level will be the providing of an environmentally friendly energy supply which also supports economically local areas. The national action plans show that a further development in the use of biomass will be essential to achieve the targets fixed for each Member State by European Union. The increasing of biomass plants number, in particular small-medium scale heating systems, implies one assumption that the fuel will be provided all-the-year in an adequate amount and quality. Compared to the market of fossil fuels, the market of wood fuels is often an informal market in which offer and demand don't match easily each other. With the aim to create a more transparent market for wood fuels, and to mobilise the huge potential of biomasse not yet available for the market, the project Biomass Trade & Logistic Centres has been launched.</p>
Web reference:	www.biomassstradecentres.eu
Contacts:	Valter Francescato Associazione Italiana Energie Agroforestali , Italy E-mail: francescato.aiel@cia.it Tel: 0039.049.88.30.722

13 BIOPROS: Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations

Coordinator:	European Biomass Industry Association - EUBIA
Supporting institutions:	FP6
Short abstract:	<p>BIOPROS – “Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations” - is an EU funded Collective Research project that started in September 2005 and will last 3 years. During this time the consortium of 25 partners from 12 different countries carried out specific research, training and dissemination activities in the field of safe and efficient wastewater reuse and sewage sludge application for the production of renewable energy crops in so called Short Rotation Plantations (SRP).</p>
Web reference:	http://www.biopros.info/
Contacts:	Mr. Stephane Senechal Rue d' Arlon 63-65 B-1040 Brussels Belgium



	Fon: +32-2-400 10 20 Fax: +32-2-400 10 21 Email: stephane.senechal@eubia.org
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14 CHP GOES GREEN: Model cities promote green CHP - Pacemakers for renewable energies

Coordinator:	Gunnar Betz Berliner Energieagentur GmbH , Germany
Supporting institutions:	Grazer Energieagentur Ges.m.b.H. (GEA) , Austria COGEN Europe VZW , Belgium SEVEn, Stredisko pro efektivni vyuzivani energie, o.p.s. (SEVEn) , Czech Republic ARENE, AGENCE RÉGIONALE DE L'ENVIRONNEMENT ET DE L'ÉNERGIE D' ILE DE FRANCE , France Rhonealpennergie-Environnement (RAEE) , France Berliner Energieagentur GmbH (BEA) , Germany Klimaschutzagentur Region Hannover GmbH , Germany Stadt Frankfurt am Main - Dezernat Bildung, Umwelt und Frauen - Energiereferat , Germany Ekodoma , Latvia
Short abstract:	<p>The goal of the project is to increase the use of RES in cogeneration, which applies to district heating and cooling as well as to decentralised cogeneration units in buildings. In eight model cities and regions (Berlin, Frankfurt/Main, Hanover, Ile-de-France, Prague, Riga, Styria, and Rhône-Alpes), promotional activities are carried out, based on a comparative analysis of the regulatory framework, market conditions and the policies of key stakeholders. The regional promotion campaigns promote good practice examples, bundle relevant information on a website and motivate for further implementation of RES-fuelled CHP by addressing suppliers and decision makers through conferences, workshops and site visits, for example. Multipliers on a technical level (like architects, planners and installers) are addressed through specific training seminars focusing on technical, ecological and economic aspects. Implementation is further supported by feasibility checks initiating additional good practices. In a further step, the know-how acquired by the project partners will be transferred to other European cities and regions by means of international workshops and one-to-one coachings.</p>
Web reference:	www.chp-goes-green.info
Contacts:	Gunnar Betz Berliner Energieagentur GmbH , Germany E-mail: betz@berliner-e-agentur.de Tel: +49 30 293330-13



15 CROSSBORDERBIOENERGY: Cross-border markets for the European bioenergy industry

Coordinator:	Mr Jean-Marc Jossart European Biomass Association , Belgium
Supporting institutions:	Austrian Biomass Association. (ABA) , Austria Danish Bioenergy Association (DBA) , Denmark FINBIO - The Bioenergy Association of Finland , Finland Eclareon Ltd. (Eclareon) , Germany German BioEnergy Association (BBE) , Germany Hungarian Bioenergy Competence Center (HBCC) , Hungary Italian Agriforestry Energy Association (AIEL) , Italy Latvian Bioenergy Association (LATBIONRG) , Latvia Slovak Bioenergy Association (SKBIOM) , Slovakia Swedish Bioenergy Association Service AB , Sweden Imperial College of Science, Technology and Medicine , United Kingdom
Short abstract:	The general objective of this project is to help SMEs to evaluate bioenergy markets in Europe in view of cross-border investments, thereby making SMEs less dependent on fluctuating domestic market conditions and strengthening the whole bioenergy industry. Five different bioenergy market sectors are considered: biogas, small scale heating, district heating, CHP and biofuels for transportation. For each of the 5 market sectors, criteria to define market attractiveness are defined by representative companies. A method is worked out to process these criteria and find appropriate indicators. Data in EU 27 countries is collected through statistics, enquiries, support schemes, national action plans, etc. Five sector handbooks will be produced. An interactive and flexible Geographic Information System (GIS) will allow visualising the market attractiveness for investments, coupled with an online database that will provide further useful information (key stakeholders details, legal documents, etc.) for those SMEs that want to go further. A proactive search for business to business (B2B) activity will ensure that SMEs are involved and are using this tool to evaluate markets abroad.
Web reference:	www.crossborderbioenergy.eu
Contacts:	Mr Jean-Marc Jossart European Biomass Association , Belgium E-mail: jossart@aebiom.org Tel: +32 478 77 36 09

16 DEBCO: DEMonstration of large scale Biomass Co-firing and supply chain integration

Coordinator:	ENEL INGEGNERIA E INNOVAZIONE (Ms. Silvia Gasperetti)
Supporting	FP7

institutions:	
Short abstract:	The DEBCO project responds to the need for further operational experience in high share biomass co-firing using different type of fuels. The project aim to demonstrate and assess, on a long term basis, the advanced and innovative co-firing techniques that are capable of achieving higher shares of biomass up to 50% more on a thermal basis. These objectives will be achieved through a programme of research activities, large-scale demonstrations and long-term monitoring of the key co-firing concepts. The selection of four representative demonstration sites will allow a long-term monitoring and assessment of the most relevant applications such as: different fuel supply chain scenarios, fuel qualities (agriculture residues, energy crops, wood pellets etc.), and advanced co-firing techniques of different pf-power plants burning lignite and bituminous coals.
Web reference:	www.debco.eu
Contacts:	Ms. Silvia Gasperetti silvia.gasperetti@enel.com . Phone:

17 ENCROP: Promoting the production and utilisation of energy crops at European level

Coordinator:	Kirsi Knuuttila Jyväskylä Innovation Oy , Finland
Supporting institutions:	Universität für Bodenkultur Wien , Austria European Biomass Association (AEBIOM) , Belgium Maa- ja elintarviketalouden tutkimuskeskus (MTT) , Finland Fördergesellschaft für nachhaltige Biogas- und Bioenergienutzung e.V. , Germany ETA, Energia, Trasporti, Agricoltura srl , Italy ESCAN, S.A. (ESCAN) , Spain BTK SLU Biomass Technology and Chemistry Sveriges Lantbruksuniversitet , Sweden
Short abstract:	Project objective is to promote the production and utilisation of lignocellulosic energy crops at European level by increasing the knowledge along the whole production chain. ENCROP aims to resolve potential bottleneck and increase the efficiency of energy production chain. It also improves the public perception of energy crop production. The project target in - Increasing the general knowledge, awareness and acceptance about energy crops - Promoting know-how on experience from utilisation of energy crops in energy companies - Promoting the confidence and collaboration between the actors of energy production chain - Developing crop-to-energy business and contract models - Training farmers on energy crop cultivation, harvesting, logistic - Facilitating business cooperation between producers and users of energy crops
Web reference:	www.encrop.net

Contacts:	<p>Kirsi Knuuttila Jyväskylä Innovation Oy, Finland E-mail: kirsi.knuuttila@jklinnovation.fi Tel: + 358 40 5771815</p>
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18 Euwood - Real potential for changes in growth and use of EU forests

Coordinator:	
Supporting institutions:	University of Hamburg – Centre of Wood Science, UNECE/ FAO – Forestry and Timber Section, EFI – European Forest Institute, Probos – The Dutch Institute for Forestry and Forest Products, METLA – Finnish Forest Research Institute.
Short abstract:	The EUwood project, financed by the IEE programme, brings together data and analyses from a wide range of sources in the comprehensive and structured framework of the Wood Resource Balance. Furthermore, the EUwood project offers a detailed and transparent estimate of future potential wood supply in Europe. The detailed information can be used by policy makers in the energy and forest sector, as well as other sectors, including agriculture, biodiversity and industry.
Web reference:	http://www.ab.gov.tr/files/ardb/evt/1_avrupa_birligi/1_9_politikalar/1_9_6_enerji_politikasi/euwood_methodology_report.pdf
Contacts:	

19 Expert Consultation "Short Rotation Forestry, Short Rotation Coppice and perennial grasses in the European Union: Agro-environmental aspects, present use and perspectives"

Coordinator:	Joint Research Centre
Supporting institutions:	European Commission Joint Research Centre Institute for Energy
Short abstract:	<ul style="list-style-type: none"> • Thematic introduction to Short Rotation Forestry, Short Rotation Coppice and Energy Grasses (T. Verwijst, Swedish University of Agricultural Sciences) • Short Rotation Forestry, Short Rotation Coppice and Energy Grasses in the European Union – Discussion Summary (G. Alker, Thames Valley Energy, United Kingdom) • Introduction to the thematic session on processing and logistics (J. Carrasco, CIEMAT, Madrid, Spain) • Report on the thematic session on processing and logistics (C. Panoutsou, Imperial College, London, United Kingdom) • Introduction to the background paper (J.E. Petersen, European Environment Agency, Copenhagen, Denmark) • Environmental impact of energy crop production (A. Karp, Rothamsted)

	<p>Research, Harpenden, United Kingdom)</p> <ul style="list-style-type: none"> • Some issues regarding Short Rotation Coppice cultivation in Poland (P. Rutkowski, Agricultural University of Poznań, Poland) • Environmental impacts of Short Rotation Coppice and Short Rotation Forestry systems - a summary of discussions (I. Tubby, Forestry Commission, Forest Research, United Kingdom) • Thematic session on current research gaps (W. Elbersen, Wageningen University, Netherlands) • Report on the thematic session on current research gaps (N. Marron, INRA, France)
Web reference	http://re.jrc.ec.europa.eu/biof/pdf/documents/srf-src.pdf
Contacts:	<p>Address: Joint Research Centre Institute for Energy Renewable Energy Unit TP 450 I-21020 Ispra (Va) Italy E-mail: jean-francois.dallemand@ec.europa.eu Tel.: 39 0332 789937 Fax: 39 0332 789992 http://ie.jrc.ec.europa.eu/ http://www.jrc.ec.europa.eu/</p>

20 FOREST: FOsteRing Efficient long term Supply parTnerships

Coordinator:	<p>Dr Guy Hitchcock The University of Exeter, United Kingdom</p>
Supporting institutions:	<p>O.O.Energisparverband (ESV), Austria Tipperary Energy Agency Ltd., Ireland Italian Thermo-technical Committee (CTI), Italy Baltic Energy Conservation Agency (BAPE), Poland Asociación Agencia Provincial para el Control de la Energía de Burgos, Spain Energy Agency for Southeast Sweden (ESS), Sweden Regen SW (Regen SW), United Kingdom Severn Wye Energy Agency Limited (SWEA), United Kingdom The University of Exeter (UNEXE), United Kingdom</p>



Short abstract:	FOREST's objective is to work directly with businesses in the biomass supply chain, from farmers and foresters to architects and designers, to develop and consolidate long-term supply partnerships that will increase end-user confidence and so encourage greater investment renewable biomass heat.. The project will support businesses through three main types of activities: 1. a best practice tool-kit focused on supply chain business models and contracts; 2. business-to-business networking to facilitate knowledge exchange and the development of partnerships; 3. direct capacity building to pilot new supply chain models and partnerships
Web reference:	www.forestprogramme.com
Contacts:	Dr Guy Hitchcock The University of Exeter , United Kingdom E-mail: g.s.j.hitchcock@exeter.ac.uk Tel: +44 1392 264141

21 GLOBAL-BIO-PACT: Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability

Coordinator:	WIRTSCHAFT UND INFRASTRUKTUR GMBH & CO PLANUNGS KG DEUTSCHLAND
Supporting institutions:	Imperial College of Science, Technology and Medicine, United Kingdom Ecole Polytechnique Federale de Lausanne, Schweiz/Suisse/Svizzera Universiteit Utrecht, Nederland Centro Agronomico Tropical de Investigacion y Ensenanza Catie, Costa Rica B.T.G. Biomass Technology Group BV, Nederland Tanzania Traditional Energy Development Organisation, Tanzania Mali-Folkecenter Nyetaa, Mali IFEU - Institut Fuer Energie- und Umweltforschung Heidelberg GMBH, Deutschland Instituto Nacional de Tecnologia Agropecuaria, Argentina Universidade Estadual de Campinas, Brazil PT Greenlight Biofuels Indonesia, Indonesia Proforest Ltd, United Kingdom

Short abstract:	The objective of the Global-Bio-Pact project is the development and harmonization of global sustainability certification systems for biomass production, conversion systems and trade in order to prevent negative socio-economic impacts. A functioning and sustainable certification scheme requires reliable data and profound research in order to evaluate impacts of biomass production. Currently, the sustainability debate is faced by the lack of data on socio-economic impacts. Furthermore, mainly impacts of bio-fuels are investigated and impacts of bio-products are neglected. Thus, a harmonized certification scheme for bio-fuels and bio-products is required. In order to harmonize sustainability certification globally, the Global-Bio-Pact proposal includes partners from Europe, Latin America, Africa, Asia and USA. Emphasis of the Global-Bio-Pact proposal will be placed on a detailed assessment of the socio-economic impacts of raw material production and a variety of biomass conversion chains.
Web reference:	www.wip-munich.de
Contacts:	Dominik RUTZ (Mr) Sylvensteinstrasse 2, Muenchen, Deutschland Tel: +49-8972012739 Fax: +49-8972012791

22 IEA Bioenergy: Task 30: Short Rotation Crops for Bioenergy Systems

Coordinator:	GoranBerndes, Chalmers University of Technology, Sweden.
Supporting institutions:	IEA Bioenergy
Short abstract:	The objective of the Task is to acquire, synthesise and transfer theoretical and practical knowledge of sustainable short rotation biomass production systems and thereby to enhance market development and large-scale implementation in collaboration with the various sectors involved.
Web reference:	http://www.shortrotationcrops.org/
Contacts:	GoranBerndes, Chalmers University of Technology, Sweden frtgb@fy.chalmers.se

23 IEA Bioenergy: Task43: Quantifying environmental effects of Short Rotation Coppice (SRC) on biodiversity, soil and water. 2011

Coordinator:	GoranBerndes, Chalmers University of Technology, Sweden
Supporting	IEA

institutions:	
Short abstract:	Reviews the potential effects of Short Rotation Coppice (SRC) cultivation on water issues, such as groundwater quality and hydrology, on phytodiversity and animal diversity, and on soil issues concerning soil quality, soil organisms, and soil carbon. Addresses the biomass production systems cultivated for energy purposes usually referred to as "SRC".
Web reference:	http://www.ieabioenergytask43.org/ http://142.150.176.36/task43/library/technicalreports.html
Contacts:	Göran Berndes Physical Resource Theory Dept of Energy and Environment, Chalmers Univ of Technology SE-412 96 Göteborg, Sweden Phone: +46 31 772 3148 Fax: +46 31 772 3150 Mobile: +46 730 794287 Email: goran.berndes@chalmers.se

24 IEA Bioenergy: Task43: Screening Life Cycle Analysis of a Willow Bioenergy Plantation in Southern Ontario. 2012.

Coordinator:	Goran Berndes, Chalmers University of Technology, Sweden
Supporting institutions:	IEA
Short abstract:	The goal of the study was to identify environmental impacts and hot spots in the life cycle of a willow plantation, as well as to identify data gaps so that research could be conducted to provide better data on willow plantation activities for future life cycle assessments.
Web reference:	www.ieabioenergytask43.org/ http://142.150.176.36/task43/library/technicalreports.html
Contacts:	Göran Berndes Physical Resource Theory Dept of Energy and Environment, Chalmers Univ of Technology SE-412 96 Göteborg, Sweden Phone: +46 31 772 3148 Fax: +46 31 772 3150 Mobile: +46 730 794287 Email: goran.berndes@chalmers.se

25 IEA Bioenergy: Task43: Short Rotation Coppice Willow Best Practice Guidelines. IEA Bioenergy: Task43: 2012:03

Coordinator:	Goran Berndes, Chalmers University of Technology, Sweden
Supporting institutions:	IEA
Short abstract:	Best Practice Guidelines for Short Rotation Coppice Willow including planting, harvest, storage/drying and utilization.



Web reference:	http://www.ieabioenergytask43.org/ http://142.150.176.36/task43/library/technicalreports.html
Contacts:	Göran Berndes Physical Resource Theory Dept of Energy and Environment, Chalmers Univ of Technology SE-412 96 Göteborg, Sweden Phone: +46 31 772 3148 Fax: +46 31 772 3150 Mobile: +46 730 794287 Email: goran.berndes@chalmers.se

26 NOE-BIOENERGY: Overcoming Barriers to Bioenergy

Coordinator:	TEKNOLOGIAN TUTKIMUSKESKUS VTT Kai SIPILA (Professor)
Supporting institutions:	FP6
Short abstract:	A Network of Excellence (NoE) will support this through technology development and implementation, policy actions and market strategies. The RTD programme of the NoE will cover all processes, components and methods necessary for establishing successful "bioenergy chains" to produce heat, electricity and biofuels for the energy end use market: Plantation and harvesting of biomass; solid fuels from agricultural and forestry residues and organic waste components; combustion, gasification and synthesis, pyrolysis, anaerobic digestion and fermentation of biomass feed stock; production of liquid biofuels and hydrogen; heat and power production plants; analyses of socio-economic, policy, market and environmental issues including greenhouse gas balances.
Web reference:	http://www.bioenergynoe.org/
Contacts:	Kai Sipila VTT P.O.Box 1000 02044 VTT, Finland Tel: +358 20 722 5440 Email: kai.sipila@vtt.fi

27 PELLETS@LAS: market data about pellet producers, traders and consumers

Coordinator:	WIP GmbH & Co Planungs-KG (Mr. Wolfgang Hiegl)
Supporting institutions:	EACI
Short abstract:	In the pellets@las project the market data about pellet producers, traders and consumers will be collected and provided to public access gates. An appropriate methodology for data collection is being developed. The market data comprise

	pellet prices with regular up-dates, required and produced pellets qualities according to existing standards and norms, produced, traded and consumed pellets amounts in all EU 27 markets plus Switzerland and Norway (EU 27+2). Data will include all types of pellets for energy such as wood pellets, agricultural pellets, mixed biomass pellets and/or industrial pellets with lower qualities
Web reference:	www.pelletsatlas.info
Contacts:	Mr. Wolfgang Hiegl wolfgang.hiegl at wip-munich dot de phone: +49-89 72012-731

28 RATING-SRC - Reducing environmental impacts of SRC through evidence-based integrated decision support tools

Coordinator:	Swedish University of Agricultural Sciences (SLU) Dr. Ioannis Dimitriou (project coordinator)
Supporting institutions:	ERA-NET
Short abstract:	The project 'RATING-SRC' is aimed at evaluate the impact of SRC –positive and negative– on soil, water, biodiversity and landscape issues and also to propose ways to mitigate negative and increase positive impacts. Moreover, factors strengthening SRC as a sustainable energy generation system as the recycling of byproducts back to SRC will be considered in the general evaluation of SRC environmental impact.
Web reference:	http://www.ratingsrc.eu/node/1
Contacts:	ioannis.dimitriou@vpe.slu.se

29 Rod-Picker : automatic harvesting system for SRC nurseries that includes the sorting and packing of the cuttings

Coordinator:	EgedalMaskinfabrik A/S (Denmark)
Supporting institutions:	1 Salix Energi (Sweden) 2 LempeGbR (Germany) 3 TU Dresden (Germany) 4 Polithenica University of Timisoara (Romania) 5 ttz Bremerhaven (Germany)
Short abstract:	Design and building of an automatic harvesting system for SRC nurseries that includes the sorting and packing of the cuttings.
Web reference:	-
Contacts:	Bárbara de Mena



	ttz Bremerhaven +49 (0) 471 4832 bdemena@ttz-bremerhaven.de
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30 Short Rotation Forestry Trial in England

Coordinator:	Forest Research, ADAS
Supporting institutions:	Department of the Environment, Farming and Rural Affairs (Defra)
Short abstract:	The purpose of the research is to establish the viability, feasibility, sustainability and appropriateness of SRF as a renewable energy source in England using a range of fast-growing species that have shown potential to be used as a biomass energy fuel. The intensive trials were planted with a range of species including ash, alder (Italian and red), birch, hybrid aspen, sycamore, three species of eucalyptus and on some sites sweet chestnut and Nothofagus.
Web reference:	http://www.forestry.gov.uk/srf
Contacts:	

31 SRC-NETWORK: market and information platform

Coordinator:	ttz Bremerhaven	
Supporting institutions:	<ul style="list-style-type: none"> • German Federal Ministry of Economics (BMWi) • European Commission 	
Short abstract:	SRC-NETWORK is a market and information platform, supported by the German Federal Ministry of Economics and the European Commission to connect business and research partners within new projects and push investment in the field of Short-Rotation-coppice.	
Web reference:	http://www.kup-netzwerk.info/en/start.html	
Contacts:	Alexander Schank +49 (0) 471 4832 200 ASchank@ttz-bremerhaven.de	Mirko Hänel +49 (0) 163 4944 866 MHaenel@ttz-bremerhaven.de

32 TREES4FUTURE : Research infrastructures for forestry research

Coordinator:	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (Mr. Paques LUC E)
Supporting institutions:	FP7
Short abstract:	TREES4FUTURE will make a significant contribution to helping the European forestry sector respond, in a sustainable manner, to increasing demands for wood products and services (among which preservation of forest biodiversity) in a context of changing climatic conditions. To do so TREES4FUTURE will integrate for the first time major, yet rarely interacting forestry communities (and their resources) from geneticists to environmentalists and from communities working at the tree/population scale to those working at forestry landscape/wood basin levels as well as industry concerns. These scientific communities will combine their complementary infrastructures, tools and knowledge and thus fill in the current gaps 1) physical environment vs genetics, 2) basic wood properties vs end-products quality and 3) individuals to forests scales of study. This collaboration will result in a holistic approach integrating abiotic and biotic environmental aspects through biological responses (eco-physiological and pest/disease risk studies), biomass production (breeding and silviculture) and industrial technology (wood quality and technology).
Web reference:	www.trees4future.eu
Contacts:	Dr. Luc E. Pâques Phone: +33 (0) 2 38417821 Email: luc.paques@orleans.inra.fr

33 WACOSYS: Monitoring and control system for waste water irrigated energy plantations

Coordinator:	Forest Research, ADAS
Supporting institutions:	Department of the Environment, Farming and Rural Affairs (Defra)
Short abstract:	The purpose of the research is to establish the viability, feasibility, sustainability and appropriateness of SRF as a renewable energy source in England using a range of fast-growing species that have shown potential to be used as a biomass energy fuel. The intensive trials were planted with a range of species including ash, alder (Italian and red), birch, hybrid aspen, sycamore, three species of eucalyptus and on some sites sweet chestnut and Nothofagus.
Web reference:	http://www.forestry.gov.uk/srf
Contacts:	
Project name:	WACOSYS – Monitoring and control system for waste water irrigated energy plantations
Coordinator:	HYDRO-AIR GmbH Jüterborg, Germany
Supporting	1 BIOAZUL S.L. (Spain)

institutions:	2 STAB Tratamento de Águas e Biotecnologia LDA (Portugal) 3 MunitsipaalasutusKarjäär (Estonia) 4 Antonio Ramos Fernández (Spain) 5 Parkanon Pellet Oy (Finland) 6 Estonian Agricultural University (Estonia) 7 Warsaw Agricultural University (Poland) 8 Verein zur Förderung des Technologietransfers an der Hochschule Bremerhaven e.V. (Germany)
Short abstract	The WACOSYS project will test the performance efficiency of the WACOSYS system for its practical and commercial application within existing Short Rotation Plantations working with different clones from willows and poplars under different climatic conditions (Estonia and Spain).
Web reference:	www.wacosys.info
Contacts:	Steffen Föllner ttz Bremerhaven +49 (0) 471 4832 470 sfoellner@ttz-bremerhaven.de

34 Wales Energy Crops Information Centre: energy crops information centre

Coordinator:	Bangor University
Supporting institutions:	Welsh Government
Short abstract:	An EU ERDF funded energy crops information centre with links to further sources of information, businesses etc
Web reference:	http://www.energycropswales.co.uk/index.php.en?menu=0&catid=0
Contacts:	calu@bangor.ac.uk

35 Willow for Wales

Coordinator:	IGER Aberystwyth
Supporting institutions:	Welsh Government
Short abstract	An EU ERDF funded project including the monitoring the performance of 35 hectares of SRC willow on 7 farms across Wales. The project piloted a number of willow varieties and included on farm tours to disseminate the results.

Web reference:	http://www.isa.utl.pt/def/interreg/docs/1P.10.pdf
Contacts:	Dr John Valentine

36 QUALITY WOOD: Increased deployment of firewood by improving fuel quality and low emission combustion

Coordinator:	Arvo Leinonen Technical Research Centre of Finland / VTT Processes , Finland
Supporting institutions:	Österreichische Energieagentur (AEA) , Austria Agence de l'Environnement et de la Maîtrise de l'Energie (ADEME) , France SINTEF Energiforskning AS , Norway Agencija za prestrukturiranje energetike d.o.o. , Slovenia FUNDACION CENER-CIEMAT (CENER) , Spain Fundación para o Fomento da Calidade Industrial e o Desenvolvemento Tecnolóxico de Galicia , Spain
Short abstract:	The main objective of the project is to enhance a significant increase of the use firewood in the EU by promoting better fuel quality management, to improve firewood production and supply chains and to promote the use of more efficient combustion appliances with less environmental impacts. Targets of the project is to improve firewood quality by promoting sophisticated fuel production and logistics systems, to enhance the possibilities for professional firewood production and trade, to provide firewood producers with knowledge on how to improve their production chains to meet the customers' quality requirements, to disseminate information on the means of firewood heating with higher efficiency and lower emissions – not only with modern appliances, but also by using the right heating methods, to provide an expert assessment about the current status and future trends of the firewood market situation (quality and volumes), as well as the technical level of firewood production and combustion equipment. The firewood use will be improved by enhancing co-operation, information and dissemination within the different market actors in the whole firewood chain.
Web reference:	www.eufirewood.info
Contacts:	Arvo Leinonen Technical Research Centre of Finland / VTT Processes , Finland E-mail: arvo.leinonen@vtt.fi Tel: 00358 20 722 2677

We extrapolated 8 main categories of projects:



Information Platform

- BASIS: Biomass Availability and Sustainability Information System [5]
- PELLETS@LAS: market data about pellet producers, traders and consumers [27]
- SRC-NETWORK: market and information platform [31]
- Wales Energy Crops Information Centre: energy crops information centre [34]

Technology development

- BIOPROS: Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations [13]
- DEBCO: DEMonstration of large scale Biomass Co-firing and supply chain integration [16]
- Rod-Picker : automatic harvesting system for SRC nurseries that includes the sorting and packing of the cuttings [29]
- WACOSYS: Monitoring and control system for waste water irrigated energy plantations [33]
- QUALITY WOOD: Increased deployment of firewood by improving fuel quality and low emission combustion [36]

SRP implementation and performances assessment

- Short Rotation Forestry Trial in England [30]
- Willow for Wales [35]

Market development

- ACCESS: Accelerated Penetration of Small-Scale Biomass and Solar Technologies [1]
- BIOBUSINESS: Business opportunities in biomass sector for SMEs [8]
- BIOMASS FUTURES: Biomass role in achieving the Climate Change & Renewables EU policy Targets. Demand and Supply dynamics under the perspective of Stakeholders [11]
- CROSSBORDERBIOENERGY: Cross-border markets for the European bioenergy industry [15]
- IEA Bioenergy Task 30, Short Rotation Crops for Bioenergy Systems [22]



SRP promotion through awareness campaigns and policy actions

- AQUATERRE: Integrated European Network for biomass and waste reutilisation for Bioproducts [3]
- BAP DRIVER: Leveraging the development of national biomass strategies & action plans, based on a balanced assessment approach for policy makers [4]
- BEN: Biomass energy register for sustainable site development for European Regions [6]
- BioEnergy Farm : Farm profitable for farmers [9]
- BIOHEAT: Promotion for Short Rotation Coppice for District Heating Systems in Eastern Europe [10]
- CHP GOES GREEN: Model cities promote green CHP - Pacemakers for renewable energies [14]
- ENCROP: Promoting the production and utilisation of energy crops at European level [17]

Supply chain development, stakeholders coordination, synergies

- AGRIFOREENERGY 2: Promoting and securing the production of biomass from forestry and agriculture without harming the food production [2]
- BIOMASSTRADECENTRES: Supporting the organization of spot markets supply for wood chips and firewood [12]
- FOREST: FOsteRing Efficient long term Supply partnerships [20]
- NOE-BIOENERGY: Overcoming Barriers to Bioenergy [26]

Enhancing sustainability

- GLOBAL-BIO-PACT: Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability [21]
- IEA Bioenergy: Task43: Quantifying environmental effects of Short Rotation Coppice (SRC) on biodiversity, soil and water. 2011 [23]
- IEA Bioenergy: Task43: Screening Life Cycle Analysis of a Willow Bioenergy Plantation in Southern Ontario. 2012. [24]
- RATING-SRC - Reducing environmental impacts of SRC through evidence-based integrated decision support tools [28]



SRF guidelines and standards, R&D coordination and future planning

- Benwood: Coordination actions in support of sustainable and eco-efficient short rotation forestry in CDM countries [7]
- Expert Consultation "Short Rotation Forestry, Short Rotation Coppice and perennial grasses in the European Union: Agro-environmental aspects, present use and perspectives" [19]
- IEA Bioenergy: Task43:Short Rotation Coppice Willow Best Practice Guidelines. IEA Bioenergy: Task43: 2012:03 [22]
- IEA Bioenergy: Task43: Short Rotation Coppice Willow Best Practice Guidelines. IEA Bioenergy: Task43: 2012:03 [25]
- TREES4FUTURE : Research infrastructures for forestry research [32]