

Bioenergy Network of Excellence

Participation of the Partner Institutes in Bioenergy Projects, 2004 – 2005

Sponsored by the EC's DG Research, Bioenergy Network of Excellence (NoE) is a partnership of eight leading bioenergy institutes that are integrating their expertise and activities to foster excellence in European bioenergy RD&D. For more information about Bioenergy NoE please visit the website: www.bioenergynoe.org.

Each partner institute actively contributes to bioenergy research in Europe through their involvement with a number of bioenergy research projects. This Project List demonstrates the ongoing work of each Bioenergy NoE partner in the biomass and bioenergy field since Bioenergy NoE began in 2004. The projects are organised by Bioenergy NoE Work Package topics to show how partner knowledge gained outside Bioenergy NoE naturally feeds into our ongoing work.

Project name & website	Purpose	NoE Partner(s)	Funding body	Time-frame
CAP AND AGROBIOMASS				
AGRICE-Pailles	Economic and environmental assessment of straw-based CHP	INRA	AGRICE (FR)	2002-2004
AGROETA	Development of PreProcessing and Hydrolysis of Domestic Agro-biomass in Production of Bioethanol	VTT	TeKes, (FI)	2005 - 2007
ANABIOM	Life-cycle assessment of bioenergy chains	INRA	ANR (FR)	2006-2008
Bio-energy chains	Assess the feasibility of establishing year round operation of energy crops for production of bio-fuels http://www.aston-berg.co.uk/?sid=2&pgid=8	AU,INRA, Partner	EC DG Research, FP5 (EU)	2001-2005
CartoPailles	Regional assessment of the impacts of straw removal on environmental fluxes and soil quality http://www.alternatech.org/article.php3?id_article=102&lang=en	INRA, Partner	Picardie Region (FR)	2003-2006
ECOBIOM	Socio-economic and environmental assessment of lignocellulosic biomass supply chains	INRA	ANR (FR)	2006-2008
Global Process to Improve Cynara Cardunculus Exploitation for Energy Applications	http://www.biomatnet.org/secure/FP6/S1845.htm	VTT, Partner	EC, FP6, STREP	2005 - 2008



LIB: Local and Innovative Biodiesel	Further deployment of local based biodiesel plants throughout Europe, using edible vegetable oils coming from small producers (families & small restaurants). http://www.fedarene.org/publications/Projects/Contrat/Biodiesel/home.htm	EC BREC, Partner	IEE, Alterner, (EU)	2004 - 2006
REGIX	Production of data bases for the production potential of various lignocellulosic feedstocks in France http://www.inra.fr/presse/evaluation_de_filieres_biomasse_cellulosique	INRA	ANR (FR)	2006-2008
RENET Biogas	R&D network on fermentation of biomass from plants for biogas production. http://www.renet.at/biogas/e_index_frames.html	JR, Partner	Republic of Austria	2004 - 2006
TIME: Technological Improvement for Ethanol Production from Lignocellulose	http://www.biomatnet.org/secure/FP5/S1756.htm	VTT, Co-ordinator	EESD, EC	2002 - 2006
EMISSION TRADING AND CLIMATE CHANGE				
BIOMITRE: BIOmass based Climate Change MITigation through Renewable Energy Systems	http://www.joanneum.at/biomitre/	JR, VTT, Partners	IEA	2002-2005
CarboEurope-IP	Network on issues related to the assessment of the European Terrestrial Carbon Balance. http://www.bgc-jena.mpg.de/public/carboeur/	JR, Partner	EC DG Research, FP5, (EU)	2001 - 2004
CarboInvent	Multi-source inventory methods for quantifying carbon stocks and stock changes in European forests http://iefs001.joanneum.at/carboinvent/index.html	JR, Co-ordinator	EC DG Research FP5, (EU)	2002 - 2005
ET Bioenergy	New Bioenergy Business During Emission Trading	EC BREC, VTT, Partners	INTERREG IIIB, (EU)	2005 - 2007
IEA Bioenergy Task 38 Greenhouse Gas Balance of Biomass and Bioenergy Systems	Network on bioenergy, land use, and greenhouse-gas (GHG) mitigation; covering all components that constitute a biomass or bioenergy system, i.e. from biomass production to bioenergy conversion and end use. http://www.joanneum.at/iea-bioenergy-task38/	JR, Co-ordinator; VTT, partner	Participating countries	2004 - 2006
White and Green: Comparison of Market Mechanisms to Promote Energy	Identify the best characteristics of a market-based mechanism to increase the efficiency of final energy utilisation and analyse the effect of the various choices. In particular, the practicability of using "White Certificates"	IIIEE	EU SAVE	2003-2005



Efficiency	(Energy Efficiency) along the same lines as "Green Certificates" (Renewable Energy) will be explored. http://www.iiiee.lu.se/whiteandgreen			
VIEWLS http://www.viewls.org/	Clear Data for Clean Fuels: International Trade for Transportation Fuels from Biomass in CEECs.	EC BREC, JR, ECN, Partners	FP5, (EU)	2003 - 2005
HEAT AND ELECTRICITY FROM RENEWABLE ENERGY SOURCES				
Additive-Based Prevention of Chlorine Corrosion in Boiler Superheaters	http://websrv2.tekes.fi/opencms/opencms/OhjelmaPortaali/Kaynnissa/ClimBus/en/system/projekti.html?id=8627019&nav=Project	VTT	Tekes (FI)	2005 - 2006
Austrian Bioenergy Centre	Developing small-scale biomass boilers and CHP systems. http://www.abc-energy.at/	JR, Partner	Republic of Austria	2002 - 2009
BIGPOWER: Advanced Biomass Gasification for High Efficiency Power	http://europa.eu.int/comm/research/energy/nn/nn_rt/nn_rt_bm/article_2820_en.htm	VTT, Co-ordinator	EC, FP6, STREP	2005-2008
Cost Action E31: Management of Recovered Wood	Management of recovered wood towards a higher common technical, economic and environmental standard. http://www.ctib-tchn.be/coste31/frames/f_e31.htm	JR, Partner	EC DG Research COST, (EU)	2002 - 2006
Development of Biomass Fuel Handling and Feeding	Project aims to improve and ensure the biomass fuel handling and feeding utilising the system, equipment and technology development. http://websrv2.tekes.fi/opencms/opencms/OhjelmaPortaali/Kaynnissa/ClimBus/en/system/projekti.html?id=8624955&nav=Project	VTT	Tekes (FI)	2005 - 2007
Development of Emission Measurement Methods, Air Quality Measurement and Atmospheric Dispersion Models in Small-Scale Wood Combustion Emissions	http://websrv2.tekes.fi/opencms/opencms/OhjelmaPortaali/Kaynnissa/Pienpuu/en/PUUT47.html	VTT	Tekes (FI)	2004 - 2006
EFORWOOD: Tools for Sustainability Impact Assessment of Forestry Wood	http://www.eforwood.com/	VTT, Partner	EC, FP6, IP	2005 - 2009



Chain				
ISSC: Innovative In-Situ CO2 Capture for Solid Fuel Gasification	http://www.co2captureandstorage.info/project_specific.php4?project_id=132	VTT, Partner	EC, FP6, STREP	2004 - 2006
Long-term Performance of Permeable Reactive Barriers	http://www.mutku.com/tekstit/Mutku_paivat2005/Paula_Eskola.pdf	VTT	Tekes, YM (FI)	2005 - 2006
MicroCHEAP	Industry and research partners assess on renewable micro-CHP technology http://www.microcheap.org/	AU, ECN, Partner	EC, FP6 – SUSTDEV (EU)	2004 - 2007
Safety Aspects of Handling New Bioenergy Sources	http://www.tsr.fi/tutkimus/tutkitaan/hanke.html?id=105071	VTT	The Finnish Work Environment Fund (FI)	2005 - 2006
Study of the Bases for New Handling Method of Chopped Firewood	http://www.tekes.fi/ohjelmat/teknologiaohjelmat/	VTT	Tekes (FI)	2004 - 2006
LIQUID BIOFUELS				
ASIATIC	Feasibility of bio-ethanol production in China http://www-egc.grignon.inra.fr/ecobilan/asiatic/index.html	INRA	EU (FP6)	2002-2004
BIONORM: Elaboration and verification of methodology for testing of solid bio-fuels properties.	http://www.energetik-leipzig.de/BioNorm/projekt.htm	EC BREC, ECN, VTT	FP5, (EU)	2002 - 2004
Biotox	Analyse and assess toxicity and biodegradability of a representative bio-oil http://www.aston-berg.co.uk/?sid=3&pgid=16	AU, Partner	EC, DG TREN, FP5	2003-2005
ENFA: EUROPEAN NON-FOOD AGRICULTURE	Project will establish a dynamic agricultural and forest sector model for the integrated economic and environmental assessment of non-food alternatives in European agriculture and forestry. http://www.uni-hamburg.de/Wiss/FB/15/Sustainability/ENFA/	JR, EC BREC, INRA, Partner	EC DG Research, FP6, (EU)	2005 – 2008
EUBIONET II	Work Package 1: Evaluation of Current Situation and Future Trends in Biomass Fuel Trade In Europe http://www.eubionet.net/	VTT	IIE (EU)	2005 - 2008
QUOVADIS	Validation of Analytical Standards of Solid Recovered Fuels http://quovadis.cesi.it/QUOVADIS%20-%20WPs.htm	VTT, Partner	IEE (EU)	2005 - 2007



R&D, Demonstration and Incentive Programmes Effectiveness to Facilitate and Secure Introduction of Alternative Fuels	http://www.tekes.fi/eu/fin/6po/kestavakehitys/	VTT	Tekes (FI)	2004 - 2007
RENEW: Renewable Fuels for Advanced Power-trains	http://www.esu-services.ch/index.html	EC BREC	EC, FP6, (EU)	2004 - 2009
Styrian Initiative for Transportation Fuels of the Future	Assessing and evaluating options for future transportation fuels www.joanneum.at/ief/treibstoffederzukunft/	JR, Co-ordinator	Austrian State of Styria	2004 - 2005
Thermal Spray Process Optimization for Functional and Adaptive Surfaces	Development of new catalyst materials for gasification processes. The catalysts are metal monoliths that will be prepared by thermal spraying methods. http://www.vtt.fi/vtt_show_record.jsp?target=utk&form=se&search=8352	VTT		2005 - 2008
Transportation Biofuels Platform Austria	Set up an expert platform to develop a strategy and organization for biofuels R&D in Austria	JR, Co-ordinator	Republic of Austria	2006 - 2007
REDUCTION OF OIL DEPENDENCE				
Development of natural gas in Sweden	Project to investigate whether natural gas is a barrier for indigenous renewable energy and the achievement of climate goals.	IIIEE	Swedish Environmental Agency	2005-2006
Eurendel: Technology and Social Visions for Europe's Energy Future	EurEnDel is the first Europe-wide Energy Delphi. http://www.izt.de/eurendel/	EC BREC, ECN, VTT	FP5, (EU)	Ended 2004
Energy for Sustainable Development Education Course	To produce an online distance education course on the fundamentals of energy for sustainable development.	IIIEE	UNDP	2005-ongoing
Sustainable Energy in Poland: The Role of Bioenergy	Research system analysis of the bio-energy development opportunities in Poland http://www.miljo.lth.se/engelska/research/visaInfo_eng.asp?ID=23	EC BREC, IIIEE	Swedish Energy Agency, STEM and VATENFALL AB, (SE)	2001 - 2005
WASTE TO ENERGY				
New Waste Management Concepts for	Study new concepts for waste management to reduce GHG emissions in four areas: (ie) WtE production (ii) waste landfilling + gas recovery	VTT	Tekes (FI)	2005 - 2007



Reducing GHG Emissions and the Development of the Concepts towards Business in the Medium Term	+ burning, (iii) recovery of materials for use, (iv) utilisation of the biological fraction of wastes. http://websrv2.tekes.fi/opencms/opencms/OhjelmaPortaali/Kaynnissa/ClimBus/en/system/projekti.html?id=8624875&nav=Project			
WaCheUp	New Concepts for Upgrading Pulp and Cork Mill Waste Streams to Value-Added Chemicals http://staff.chemeng.lth.se/~ann-sofij/projects/WaCheUp.htm	VTT, Partner	EC, FP6 (EU)	2005 - 2008
MAJOR BIOENERGY NETWORKS that include Bioenergy NoE partners				
BBN: Baltic Biomass Network.	Local and Regional initiative to mobilise biomass resources and plan sustainable bioenergy investment projects http://www.balticbiomass.com/bbn_network/	EC BREC	INTERREG IIIB, (EU)	2005-2008
ENCOFOR	ENvironment and COMMunity based framework for designing affOREstation , reforestation and revegetation projects in the CDM Methodology development and case studies. www.joanneum.at/encofor	JR, Partner	EuropeAid, (EU)	2003 - 2007
IEA Bioenergy - Executive Committee	http://www.ieabioenergy.com/DirExco.aspx#UnitedKingdom	VTT, JR	IEA	2005 - 2007
NETBIOCOF: Integrated European Network for Biomass Co-Firing	Promote EU co-operation between research organisations devoted to biomass co-firing, promoting the uptake of innovative technologies to expand the use of biomass co-firing in new and existing power plants, with emphasis in the New Member States. http://www.netbiocof.net/	VTT	EC, FP6, CA	2005 - 2007
RenuResin	A European network to develop resins from biomass for the wood panel industry http://www.aston-berg.co.uk/?sid=2&pgid=8	AU, Co-ordinator, JR	EC DG Research, FP5 (EU)	2001 - 2005
STCBC Conference Series	Organisation of the international Science in Thermal and Chemical Biomass Conversion Conference series www.stcbc.com	AU, Co-ordinator	Various	Every 4 years. Next: 2008
SUPERGEN Biomass, Biofuels and Energy Crops Consortium	A UK consortium in bioenergy which is carrying out fundamental and applied research into biomass and bioenergy in eight universities and research centres, supported by four companies. www.supergen-bioenergy.net	AU, Co-ordinator	EPSRC (UK)	2003-2007
Thermalnet	A European network for biomass combustion, gasification and pyrolysis www.thermalnet.co.uk	AU (Co-ordinator), ECN, JR, VTT, FZK	EC DG TREN, IEE (EU)	2005-2008