Foreword

The network of the "Four Motors for Europe" (Baden-Württemberg, Lombardy, Catalonia and Rhône-Alpes) has been working together in various policy areas since more than 25 years. One of the most important items in the work of the Economy Group is to foster innovation and competitiveness of small and medium enterprises and to support their internationalization. For this reason the Four Motors have established special contacts with certain regions in the world. Baden-Württemberg is one of the main initiators and a strong impetus for the Danube strategy. To build a bridge from our long-standing partnership of the Four Motors with the Danube Region, Baden-Württemberg organized a joint mission with conferences and B2B meetings from 1 to 3 July 2013 in Novi Sad, in the Autonomous Province of Vojvodina in the Republic of Serbia.

The goal of the Danube strategy is to encourage sustainable growth and prosperity but also to improve the environmental conditions and to bring the Danube countries closer to a high level of protection for the environment in the medium-term. One of the key objectives of the Priority Area 8 "Support of Competitiveness" of the EUSDR focuses on the field of environment technologies and in particular renewable energy such as biomass. The Danube Region has a huge biomass potential that must be used to provide economic opportunities and create new chances for sustainable rural development in the Danube Region. For that purpose a Danube Region Biomass Action Plan was drawn up and intends to create synergies and coordination between existing policies and initiatives of countries in the Region in order to extend the sustainable use of biomass. Following the last conference in Novi Sad, the biomass-conference in Timisoara will be a good occasion for networking and cooperation between science, industry and politics from the central Danube Region and the Four Motors.



Dr. Nils Schmid Minister of Finance and Economics and Deputy Minister President of the State of Baden-Württemberg





Background

The Ministry of Finance and Economy Baden-Württemberg has commissioned the Eastern Europe Centre of the University of Hohenheim to organize the conference. The R&D and higher education institutions in the Danube region are important stakeholders for innovative measures for efficient biomass use. Often clustered around regional centres they have a great potential for spill over of innovations and synergy effects to professionalize the agri-food and renewable energy systems. Due to this background the Eastern Europe Centre of the University of Hohenheim has designed the project "Smart and Innovative Rural Areas" (SIRA DANUBE) with the intention to increase the competitiveness of peripheral regions through the creation of regional centres of competence. Within the European Strategy for the Danube Region this action is also based on an existing university network in the fields of agricultural, food and environmental sciences with all agricultural faculties in the Western Balkan region. It evolved from various EU and DAAD funded programmes and other initiatives.

The organizers would like to thank the Polytechnic University of Timisoara and the Banat's University of Agricultural Sciences and Veterinary Medicine for hosting this conference.

Dr.h.c. Jochem Gieraths Eastern Europe Centre University of Hohenheim osteurop@uni-hohenheim.de www.oez.uni-hohenheim.de

Venue: Polytechnic University Timisoara/ Romania, 300006 Timisoara, Piata Victoriei No. 2, Large Senate Room



























16:30-18:30

Introduction

Wednesday | 19 March 2014

Chairman: Dr. h.c. Jochem Gieraths, Eastern Europe Centre, University of Hohenheim, Baden-Württemberg

Polytechnic University Timisoara - an important performer in promoting of RDI renewable energy solutions for Central Europe Area *Dr. Viorel-Aurel Şerban, Rector, Polytechnic University, Timisoara, Romania*

Agriculture and Green Energy - present and prospects Prof. Dr. Paul Pirsan, Rector, Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania

Brief introduction of the economic group of the Four Motors Ramón Pinós, President oft he Economic group of the Four Motors for Europe, Catalonia

The activities of Sustainable Energy Priority Area (PA2) of the Danube strategy - the Biomass Action Plan Szilárd Árvav. Ministry of Foreign Affairs of Hungary

Politics regarding energetical efficiency in Romania Bogdan Pandelica, Under-Secretary, Ministry of Economy, Bucharest, Romania

Possibilities for financing programmes for energy efficiency improvement Viorel-Madalin Beltecchi, General Director, Ministry of Economy, Bucharest. Romania

08:30-10:30

Timisoara, Romania

Biogenic solid fuels

Thursday | 20 March 2014

Chairman: Dr. Andreas Lemmer, University of Hohenheim, Baden-Württemberg

BioEnergy as a key for agricultural sustainability Prof. Dr. Fabrizio Adani, University of Milano, Lombardy

Alternative energies for the territories - focus on gasification technologies

Etienne Lebas, COGEBIO, Irigny, Rhône-Alpes

Research Institute for Renewable Energy - an important solution to stimulate the high quality in implementation of RDI projects

Prof. Dr. Petru Negrea, Polytechnic University,



Advanced Research in obtaining valuable energy products from photosynthesis

Prof. Dr. Joan Salvadó, Catalonia Institute for Energy Research (IREC), Tarragona, Catalonia

Solutions for optimization of equipment and harnessing of Short Rotation Coppice –Projects BIOHEAT and ROD PICKER

Prof. Dr. Ioana Ionel. Polytechnic University. Timisoara. Romania

Studies and prospects for Paulownia crop production in Banat Prof. Dr. Dumitru Mnerie, Polytechnic University, Timisoara, Romania

The biomass market in Serbia Vojislav Milijić, President of the national biomass association Serbio. Serbia

Cascade processing of biomass to enhance energy yield Teodor Vintila, Banat's University of Agricultural Sciences and Veterinary Medicine. Timisoara. Romania

10:30-11:00

Coffee Break

Application of Life Cycle Cost Analysis for SRC culture Prof. Dr. Dumitru Tucu, Polytechnic University, Timisoara, Romania

Influence of air mass flow and feeding rate on combustion properties of Jatropha curcas L. pellet

Dr. Shkelqim Karaj, University of Hohenheim, Institute for Agricultural Engineering, Baden-Württemberg

Pellet production

Radu Domnita, HIMMEL Maschinen, Melchingen, Baden-Württemberg

Energy solutions for windbreaks of roads Ec. Wilhelm Hollerbach, S.C. Rebina, Timisoara, Romania

Grinding, Briquetting and Combustion of agricultural residues Markus Müller, Mütek Systemtechnik – GmbH, Filderstadt, Baden-Württemberg

13:00-14:30

Lunch Break

14:30-17:00

Biogenic liquid fuels and biogas production

Chairman: Dr. Shkelqim Karaj, University of Hohenheim, Baden-Württemberg Prof. Dr. Milan Martinov, University of Novi Sad, Faculty of Technical Sciences, Serbia

Availability of maize and wheat residues for potential bioethanol production in Croatia

Corn stover as a fuel and feedstock for biofuels in Vojvodina

Ass. Professor Dr. Željko Jukić, University of Zagreb, Faculty of Agriculture, Croatia

Different pathways to use biogas – a technical and economical evaluation Dr. Andreas Lemmer, University of Hohenheim, State Institute of Agricultural Engineering and Bioenergy, Baden-Württemberg

15:30-16:00

Coffee Break

Biogas related research activities at the University of Szeged Dr. Norbert Ács, University of Szeged, Department of Biotechnology, Hungary

From waste to energy-practical experience in Croatia Marko List, Agrokor-Energija d.o.o., Zagreb, Croatia

Biogas production from organic waste in tomato production in terms of glasshouse

Prof. Dr. Davor Kralik, University of Osijek, Faculty of Agriculture, Croatia

CHP – Units running on biogas or plant oil: a reliable and efficient energy supply system

Wolfgang Jörger, Director International Sales, SCHNELL Motoren AG, Amtzell, Baden-Württemberg

Practical examples of an energy efficient heat and electric power supply by biogas stations

Dominik Helffrich, Methavis GmbH, Sandhausen, Baden-Württemberg

Friday | 21 March 2014

09:00-11:00

Conclusion: Economic and scientific perspectives for future cooperation

Chairman: Michael Gerner, Dr. Hans Peter Herdlitschka (PAC 8), Ministry for Finance and Economy, Baden-Württemberg

An example for a possible design of projects: "Development of a sustainable bioenergy market in Serbia"

Alexis Brakhan, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. Belgrade, Serbia







