



PATRONAGE
MARSHAL ZACHODNIOPOMORSKIE VOIVODSHIP

MEDIA PATRONAGE



Koszalin University of Technology

INSTITUTE OF ECONOMICS AND MANAGEMENT, DEPARTMENT OF ECONOMIC AND REGIONAL POLICY

invites

International Scientific Conference

**Use of biomass in power engineering industry:
 economic and ecological aspects**



17-18 October 2011, IEiZ ul. Kwiatkowskiego, Aula

PURPOSE OF THE CONFERENCE:

Poland is on the threshold of epoch-making challenges in the area of power engineering industry. The system which has been in use so far of power engineering industry, both in the scope of the production of electric and thermal energy based on the combustion of hard bituminous and brown coal, requires fundamental changes. The need to changes the power engineering system is the consequence of numerous important facts including large depreciation of power plants, electricity transmission networks, heat end power stations and municipal thermal power stations. This results in the need to initiate new investments and to modernize existing investments. The global pressure on a reduction of carbon dioxide emissions on a large scale constitutes an important aspect. This necessitates technological changes.

The counteraction of the greenhouse effect, especially on the part of the EU Member States and through the Kyoto Protocol, aims in the direction of the use of renewable energy sources in place of fossil energy raw materials. Poland is among those countries where the prospects of the use of renewable energy sources are relatively large in each of the forms of renewable energy sources; this is especially true as regards the use of biomass. At the present moment, the situation of Poland is favourable to such changes and, to a great extent, it depends from us how we use this opportunity.

An assessment of the estimations of the biomass potential on regional and local levels will constitute a special factual contribution.

This scientific conference and the field workshops will permit a presentation of new research results in this area, of economic achievements and implementations; an opportunity will be provided to share views among the representatives of the scientific and research world, economy in the area of renewable energy sources, politicians, the representatives of local authorities as well as social and non-government organizations.

Scientific studies as well as studies connected with economy in this area will be published in the English language by the Koszalin University of Technology. The conference and scientific workshops will also be realized within the framework of the EU Project entitled "Baltic Sea Region 2007-2013 Bioenergy Promotion".

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CONFERENCE PROGRAM

17/10/2011 (IEiZ, Kwiatkowski Street, Aula)

- 9⁰⁰ - 10⁰⁰ - Registration
10⁰⁰ - 10³⁰ - Presentations of invited guests:
- Welcome - Chairman of the Organizing Committee Professor. M. Jasiulewicz
 - Rector of the Technical University of Koszalin
 - Marshal of the West Pomeranian.
 - President of Koszalin
 - Mayor of Koszalin County
 - Director of INSTITUTE OF ECONOMICS AND MANAGEMENT
- 10²⁰ - 10⁴⁰ - Prof. Georg von Wuehlisch (Institute for Forest Genetics, Grosshandorfs, Germany): The economy and sustainable development of agriculture, producing crops, wood biomass with rapid rotation
10⁴⁰ - 11⁰⁰ - Klaus Schwarz (BTU Cottbus, Germany): Renewable energy as an opportunity for the development of modern communities
11⁰⁰ - 11²⁰ - Ph.D., Eng. Jan Wiesław Dubas (Wen, Jelenia Góra): Identification of an example biogas project: selected technical and economic aspects
11²⁰ - 11⁴⁰ - Discussion
11⁴⁰ - 12⁰⁰ - Coffee break
12⁰⁰ - 12²⁰ - MA, Eng. Janusz Łada (CEO Alpha Clean Technology Lodz): Algae future energy source
12²⁰ - 12⁴⁰ - Prof. Dr. Theodor Fock (Research Institute in Neubrandenburg, Germany): Biomass and Biogas in Mecklenburg-Vorpommern, Germany – supply potentials and private household demand
12⁴⁰ - 13⁰⁰ - Ola ŁUKASZEK, mgr Karol Bartkiewicz, Wojciech ŁUKASZEK (Ekoenergia, Gdańsk): Agriculture Energy - new aspects of energy use in the biogas and the rules of their long-term contracts
13⁰⁰ - 13²⁰ - Discussion
13²⁰ - 14⁰⁰ - Lunch break
14⁰⁰ - 14²⁰ - MA, Eng. Roman Borecki (Chairman of the Board Institute of Engineering Research and Implementation in Olsztyn), Ph.D. Michael Pyrc, Ph.D. Arkadiusz Jamrozik: Prospects for the development of small agriculture biogas plants in Poland by 2020
14²⁰ - 14⁴⁰ - mgr Jacek Dobrowolski (UMCS, Lublin): The acquisition of solid biofuels, an example of lw Bogdanka co.'s investment project – problems of implementation and benefits
14⁴⁰ - 15⁰⁰ - Prof. Adam Cenian IMP PAN (Institute of Fluid Flow Machinery PAS, Gdańsk) Use of waste heat from a biogas plant co generation's local district heating system
15⁰⁰ - 15²⁰ - Discussion
15²⁰ - 15⁴⁰ - Coffee break
15⁴⁰ - 16⁰⁰ - Prof. Friedrich Jager (Neubrandenburg, Germany), Prof. Marek Bury (ZUT, Szczecin) - Sorghum as a source of renewable energy and new possibilities for the use of grain
16⁰⁰ - 16²⁰ - Ph.D. dr Agata Irena Łucka, Ph.D. M. Kolodziej Urszula - (ODR Barzkowice): Agricultural Use of biogas digestate mass of agricultural
16²⁰ - 16⁴⁰ - Prof. Leszek Styszko PK, MA Fijałkowska Diana, M.Sc. Monika Sztyme-Horwat (Technical University of Koszalin): Influence of fertilization with EKO-KOMP compost on the willow crop, combustion heat and the emissions of nitrogen oxides NOx at biomass combustion
16⁴⁰ - 17⁰⁰ - Ph.D. Gabriela Czapiewska (Pomeranian Academy, Słupsk): Renewable energy and its influence on the development of rural areas of Middle Pomerania
17⁰⁰ - 17²⁰ - Prof. Michael Jasiulewicz (Koszalin University of Technology): Analysis of the possibilities of the use of solid biomass in local heat-ing plants
17²⁰ - 17⁴⁰ - Discussion and summary
18³⁰ - Gala Dinner

Study tour program (workshops) on 18/10/2011

- 8³⁰ - Departure (Street Kwiatkowski 6E - parking)
9⁰⁰ - 9³⁰ - tour of biogas in Naclaw
9³⁰ - 9⁴⁵ - drive to Kościernica
9⁴⁵ - 10⁰⁰ - willow plantation in Kościernica
10⁰⁰ - 10³⁰ - a journey to Polanowa
10³⁰ - 11⁰⁰ - visiting a facility that produces briquettes, pellets from biomass
11⁰⁰ - 13⁰⁰ - a journey to Chojnice
13⁰⁰ - 13³⁰ - lunch
13³⁰ - 14⁰⁰ - transfer to the Department of Solid biomass heating heated
14⁰⁰ - 14³⁰ - visiting the Department of the heating
14³⁰ - 16³⁰ - return to Koszalin

ORGANIZING COMMITTEE

prof. nadzw. dr hab. Michał Jasiulewicz – przewodniczący
prof. dr hab. inż. Grzegorz Spychalski
prof. nadzw. dr hab. Andrzej Suszyński
prof. dr hab. Adam Cenian
dr Urszula Gołębiowska
dr Waldemar Gostomczyk
dr Patrycjusz Zarębski
mgr Jagoda Krajewska-Bzymek

Application

participate in the conference, please send an email:
jagoda.krajewska@tu.koszalin.pl

or

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