

## International Conference

# “Energy Crops – Creating Markets for Heat and Electricity”

## Invitation

This event covers the production and use of energy crops for heat, electricity and biogas in Europe. The two days conference organized by ENCROP Project partners will focus on policy issues/support schemes with a stronger emphasis on different possibilities to use these crops for bioenergy, on agronomic aspects as well as on practical issues such as contracting and logistics. A study tour to the Koziencice power plant (co-firing of coal and energy crops) and an energy crop trial site will take place on the second day. A simultaneous translation Polish/English will be provided. Visit [www.encrop.net](http://www.encrop.net) for more details.

This conference aims at producers, project developers, scientists, bioenergy users, farmers and companies interested in energy crops

**Date:** 21 - 22 September 2009

**Venue :** Institute of Soil Science and Plant Cultivation, National Research Institute (PIB), ul. Czartoryskich 8, 24-100 Pulawy, Poland

**Registration till September 10, 2009**

via [www.encrop.net](http://www.encrop.net)

# Energy Crops – Creating Markets for Heat and Electricity

## Programme

### Day 1: Conference

9.30 – 10.00 Registration and coffee

#### 10.00-12.30 Session 1. Cultivation of energy crops

- **Welcome**, Mr. Piotr Gradziuk, president of the Polish Biomass Association (POLBIOM)
- **Overview of energy crops and their uses in Europe**, Mr. Jean-Marc Jossart, European Biomass Association (AEBIOM)
- **Key factors for successful small and medium scale bioenergy-projects - A survey within the ENCROP Project**, Mr. Wolfgang Gabauer, BOKU University Vienna, Austria
- **Characteristics of agricultural raw material as source for heat and electricity production in Poland**, Mr. Bogdan Kosciuk, University of Life Sciences in Lublin, Poland
- **Environmental aspects of energy crops cultivation in Poland**, Mr. Antoni Faber, Institute of Soil Science and Plant Cultivation in Puławy, Poland
- **Potential for rape seed in Poland**, Mr. Jan Kuś, Institute of Soil Science and Plant Cultivation in Puławy, Poland
- **Dedicated crops for energy production in Spain: a case study**, Ms. Maria Dolores Curt, Association for the Dissemination of Biomass (ADABE), Spain

12.30-14.00 Lunch

#### 14.00-16.00 Session 2. Logistics and contracting

- **Upgrading energy crops to fuel pellets**, Mr. Shaojun Xiong, Swedish University of Agricultural Sciences, Sweden
- **The logistic chains of Reed Canary Grass - challenges and solutions in large scale utilisation**, Mr. Olli Reinikainen, Vapo Oy, Finland
- **Logistics of renewable fuels supply chain, law issues and farmers point of view**, Mr. Piotr Gradziuk, Agricultural University Lublin, Poland
- **Contracting energy crops**, Representative of the Kozienice power plant, Poland
- **Supply of short rotation forestry for large scale Biomass-to-Liquid production**, Mr. Michael Weitz, Choren, Germany
- **Small scale district heating using short rotation poplar coppice in Italy**, Mr. Lorenzo Corbella, ETA-Florence Renewable Energies, Italy

16.00-16:30 Coffee break

#### 16.30-18.30 Session 3. Use of energy crops for heat and electricity

- **Co-firing in heat industry**, Ms. Anna Grzybek, Institute for Building Mechanisation and Electrification in Agriculture in Warsaw, Poland
- **Turboden ORC units: A well proven solution for small scale biomass CHP plants**, Ms. Clotilde Rossi, Turboden, Italy
- **Straw boilers in Denmark**, Mr. Lars Nikolaisen, Danish Technological Institute, Denmark
- **Biogas in agriculture in Poland**, Ms. Alina Kowalczyk-Juško, University of Life Sciences Lublin, Poland
- **Biogas from energy crops in Germany**, Mr. Michael Köttner, International Biogas and Bioenergy Centre of Competence, Germany
- **Producing electricity and district heating with Salix**, Ms. Camilla Åhlund, ENA Energi AB, Sweden

19.30 Conference dinner

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## Day 2: Technical Visits

9.00 Departure of the bus from the hotels

### Co-firing



Kozenice Power Plant



One of the 200 MW units



Control Room

The Kozenice power plant consists of 10 units with a total of 2673 MW power and 266 MW heat. The co-firing with biomass in 200 MW co-combustion units was introduced in 2007. Biomass can contribute a maximum of 10% of the fuel. A specialized installation is in place in order to integrate the biomass into the coal feeding system. The coal biomass mixture is then forwarded to the coal bunkers. After pulverizing, the mixture is blown into the boiler combustion chamber with the burner system.

The power station consumes about 5 million tons of coal yearly. About nine rail transports (of 40 wagons) are burnt daily at maximal load of power units. A maximum of 100,000 tons of biomass is used every year. This replaces more than 50,000 tons of coal and decreases the CO<sub>2</sub> emission by more than 100,000 tons.

### Energy crops trials



Miscanthus



Bandit Beast M3680



Willows

The energy crops experimental fields are located 7 km from Pulawy and run by the Institute of Soil Science and Plant Cultivation. There are 4 Polish and 5 Swedish varieties of willow and 7 clones of miscanthus plus 3 more species of energy grasses.

A demonstration of a modern chip production technology (Bandit Industries) will be arranged during the visit. The cutter mill can process various raw materials (including baled grasses) into usable biomass fuel.

16.00 return to the hotels and bus transfer to Warsaw Airport



## Practical Information

**Translation** A simultaneous translation Polish/English will be provided

### Location and Travel Information

Pulawy is located 100 km south of Warsaw and can be conveniently reached by train (1h50). After the technical visit on the second day of the conference (22.09.), the bus will take participants directly to the Warsaw airport. Estimated arrival at Warsaw airport is 18:00.

### Train connection Warsaw – Pulawy

This is a timetable of direct connections – please visit <http://rozklad-pkp.pl> for additional connections and more information.

	departure	arrival	duration	platform	number
Warsaw Central - Pulawy Miasto (daily)	07:15	09:05	1:50	I/5	P 13109
	09:15	11:08	1:53	I/5	P 52105
Pulawy Miasto - Warsaw Central (daily)	12:52	14:45	1:53	III/4	P 28100
	14:50	17:00	2:10	III/4	P 21108
	16:50	18:45	1:55	III/4	P 25104
	18:53	20:45	1:52	IV/8	P 31108
	20:16	22:40	2:24	IV/8	P 21200

The **map of Pulawy** indicates the location of the conference, train station and hotel options

#### Venue

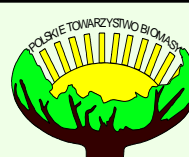
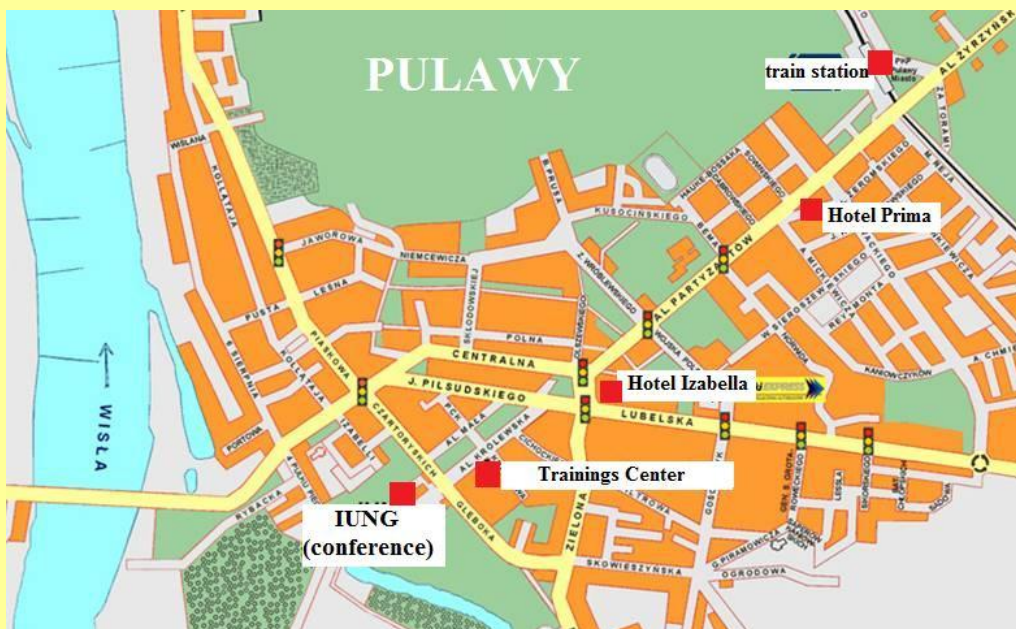
- Institute of Soil Science and Plant Cultivation (IUNG)

#### Hotels

- Training Center
- Hotel Izabella
- Hotel Prima

#### Other

- Train station



# Energy Crops – Creating Markets for Heat and Electricity

## Accommodation

PULAWY			WARSAW
Conference and Training Center	Hotel Prima	Hotel Izabella	Campanile Warsaw
24-100 Puławy Al.Królewska 17 Tel. +48 81 887-73-06 Fax +48 81 887-73-07 <a href="http://www.iung.pulawy.pl/Centrum_a.html">http://www.iung.pulawy.pl/Centrum_a.html</a>	24-100 Puławy, Poland Al. Partyzantow 44 Tel. +48 81 886 38 24 Fax +48 81 886 46 15 <a href="http://hotelprima.pl">http://hotelprima.pl</a>	24-100 Puławy, Poland Ul. Lubelska 1 Tel. +48 81 886 30 41 Fax +48 81 886 39 56 <a href="http://www.izabella.pl">www.izabella.pl</a>	00-811 Warsaw Ui.Towarowa 2 Tel. +48 22 582 72 00 Fax +48 22 582 72 01 <a href="http://www.campanile-varsovie.pl">www.campanile-varsovie.pl</a>
Only double rooms 40 €	Single rooms 25-30 € Double rooms 31-36 €	Single rooms 20-27 € Double rooms 28-36 €	Single/double 65 €

## Registration

Please register by **10 September 2009!**

Please use the online form at [www.encrop.net](http://www.encrop.net)

This event is organised in two days: one conference day and one day of technical visits. It is also possible to register for a single day only. However, the standard registration for both days includes an additional conference dinner at the end of the day one (at the conference site). Please find the three options below:

	Conference & visits (day 1&2)	Conference (day 1)	Visits (day 2)
Registration fee			
<input type="checkbox"/> Companies	300 Eur	200 Eur	100 Eur
<input type="checkbox"/> Associations/Universities	80 Eur	50 Eur	30 Eur
<input type="checkbox"/> Individuals, students	40 Eur	20 Eur	20 Eur
Included: Day 1: Entrance to conference, coffee break in morning and afternoon, lunch conference dinner (if registering for both days) Day 2: Transport by bus, lunch and drinks			

**Payment**  
via bank transfer

Details on  
[www.encrop.net](http://www.encrop.net)

Deadline for  
payment:  
**15 September 2009**

## Additional Information

**Conference:** Mr. Kajetan Kosciak, e-mail: [kkosciak@wnr.edu.pl](mailto:kkosciak@wnr.edu.pl), Tel: +48 84 67 72 760

**ENCROP:** Ms. Tytti Laitinen, e-mail: [Tytti.Laitinen@jklinnovation.fi](mailto:Tytti.Laitinen@jklinnovation.fi), Tel: +358 40 5000 489