

10th International Conference on
"Biomass for Energy"
September 23-24, 2014, Kyiv, Ukraine

Program

Organizers of the Conference:



Bioenergy Association of Ukraine



Institute of Engineering Thermophysics,
the National Academy of Sciences of Ukraine



Scientific Engineering Centre "Biomass"

Financial support by USAID Project "Municipal Energy Reform in Ukraine":



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Netherlands in Ukraine

Conference supported by

*Interfractional deputy association "For the energy independence of Ukraine",
Verkhovna Rada of Ukraine*

Supported by

- Ministry of Energy and Coal Industry of Ukraine
- Ministry for Regional Development, Construction and Housing and Communal Services of Ukraine
- Ministry of Agrarian Policy and Food of Ukraine
- State Agency for Energy Efficiency and Energy Conservation of Ukraine
- State Forestry Agency of Ukraine
- Committee of Verkhovna Rada of Ukraine for Fuel and Energy, Nuclear Policy and Nuclear Safety

Information sponsors of the Conference:



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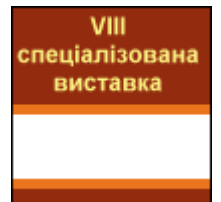
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Journal "Science and
innovation"



Exhibition "Heating
and alternative energy"

Program outline

Tuesday, 23 September 2014

8:30 – 9:30	<i>Registration of the conference participants</i>
9:30 – 10:10	BH: Opening ceremony
10:10 – 11:00	BH: Plenary session P1
11:00 – 11:30	<i>Coffee break</i>
11:30 – 13:00	BH: Panel discussion
13:00 – 14:30	<i>Lunch</i>
14:30 – 16:00	BH: Section C4 (Strategy and policy issues)
16:00 – 16:30	<i>Coffee break</i>
16:30 – 18:00	BH: Section C3 (Electricity generation and heat production from solid biomass)
18:00 – 20:00	<i>Reception for the conference participants</i>

Wednesday, 24 September 2014

9:00 – 10:30	BH: Plenary session P2	9:00-10:30 LH: Seminar on Bioenergy Cooperation Ukraine – Netherlands
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 13:00	BH: Section C1 (Biomass resources and pre-treatment)	10:45-12:00 LH: Seminar on Bioenergy Cooperation Ukraine – Netherlands
		12:00-13:00 LH: Matchmaking between the Ukrainian and Dutch companies
13:00 – 14:30	<i>Lunch</i>	
14:30 – 16:00	BH: Section C2 (Biogas)	F: Visual presentations
16:00 – 16:30	<i>Coffee break</i>	
16:30 – 17:30	BH: Section C3 (Electricity generation and heat production from solid biomass)	F: Visual presentations
17:30 – 18:00	BH: Closing ceremony	

Conference venue:

The International Conference on Biomass for Energy and seminar will be held at premises belonging to the Presidium of the National Academy of Sciences of Ukraine:

55, Volodymyrska str., Kyiv (★ marked on the map).

Legend in the Program outline:

- BH** – Big Hall (1st floor)
- LH** – Little Hall (1st floor)
- F** – Foyer (ground floor)

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- Section 1 – Biomass resources and pre-treatment
- Section 2 – Biogas production and use
- Section 3 – Electricity generation and heat production from solid biomass
- Section 4 – Strategy and policy issues

Lunches for the Conference participants 23-24 September 2014 will be organized at Restaurant O'Panas: 10, Tereshchenkivska Str., Kyiv (★ marked on the map)



Tuesday, 23 September 2014

Registration of the conference participants 8:30 – 9:30

BIG HALL

Opening Ceremony

9:30 – 10:10

Chairpersons of Opening Ceremony and Plenary Session	Georgii Geletukha Chairman Bioenergy Association of Ukraine Institute of Engineering Thermophysics of NASU Oleksandr Dombrovskiy Co- Chairman Head of the Interfractional deputy association "For energy independence of Ukraine", people's deputy of Ukraine Kees Kwant Co- Chairman Netherlands Enterprise Agency, The Netherlands
Welcome Addresses	Georgii Geletukha Chairman Oleksandr Dombrovskiy Co-Chairman Sergii Savchuk Head of State Agency for Energy Efficiency and Energy Conservation of Ukraine Kees Kwant Co-Chairman Leonid Kozachenko President of the Ukrainian Agrarian Confederation Representative of USAID Representatives of legislative and executive power

BIG HALL

Plenary Session P1

10:10 – 11:00

P 1.1	Bioenergy in Ukraine: the barriers to development and ways to overcome them. Georgii Geletukha, (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics NASU, Kyiv, Ukraine)
P 1.2	Experience of bioenergy projects implementation in "MHP". Oleksandr Dombrovskiy (Head of the Interfractional deputy association "For energy independence of Ukraine", Ukraine)
P 1.3	Measures implemented by the Government in the field of energy efficiency and conservation, the following initiatives for the future. Sergii Savchuk (Head of State Agency for Energy Efficiency and Energy Conservation of Ukraine)

Coffee-break 11:00 – 11:30

BIG HALL

Panel discussion “Barriers to the development of bioenergy in Ukraine and ways of overcoming them” **11:30 – 13:00**

Moderator:	Georgii Geletukha (Bioenergy Association of Ukraine)
Participants of discussion:	Georgii Geletukha (Bioenergy Association of Ukraine) Oleksandr Dombrovskyi (Head of the Interfractional deputy association "For energy independence of Ukraine") Sergii Savchuk (Head of State Agency for Energy Efficiency and Energy Conservation of Ukraine) Leonid Kozachenko (President of the Ukrainian Agrarian Confederation) Sergiy Maslichenko (EBRD, Ukraine) Andriy Mitskan (Representative of USAID Project in Ukraine) Ivan Nadein (NGO Committee of Ukraine's energy independence) Konstantin Bogatov («Salix Energy» Ltd)

Lunch 13:00-14:30

BIG HALL

Section 4 (Strategy and policy issues) **14:30 - 16:30**

Chairpersons	Kees Kwant Ivan Nadein
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- 0 1. **Sustainable Implementation of biomass projects, results from 40 pilot projects.**
Kees Kwant (Netherlands Enterprise Agency, The Netherlands)
- 0 2. **Biomass energy development in Lithuania in 2000-2020 years.**
Virginijus Ramanauskas (LITBIOMA, Vilnius, Lithuania)
- 0 3. **Experience of using low quality biomass (including peat) in the heat energy and industrial enterprises in Scandinavian countries, Baltic states and other regions.**
Ivars Liepiņš (A/s "KOMFORTS", Latvia)
- 0 4. **How to fully replace gas on biomass in Central heating system of town - example from Slovakia.**
Karel Hirman, Stefan Smrekovsky, Stanislav Neslusan (Datatherm Slovakia)
- 0 5. **Boilers for low grade biofuels, solutions to improve the efficiency.**
Kestutis Buinevicius (ENERSTENA, Kaunas, Lithuania)
- 0 6. **Energy feedstock for bioenergy use.**
Mykola Roik (Institute of Bioenergy Crops and Sugar Beet, Kyiv, Ukraine)-
- 0 7. **Implementation of projects for replacing natural gas in the state financed and communal sectors.**
Ivan Nadein (NGO Committee of Ukraine's energy independence, Kyiv, Ukraine)
- 0 8. **From cultivation to the sale of heat.**
Konstantin Bogatov («Salix Energy» Ltd, Bioenergy Association of Ukraine)

Coffee-break 16:30 – 17:00

BIG HALL

Section 5 (Electricity generation and heat production from solid biomass) **17:00 - 18:00**

Chairpersons

Maksym Sysoiev

Yevgen Lunyov

- 0 **9. Legal aspects of implementation of “green” tariff for bioenergy projects in Ukraine.**
Maksym Sysoiev (Marchenko Danevych law firm, Kyiv, Ukraine)
- 0 **10. Siemens Turbines for biomass plants.**
Yevgen Lunyov (Siemens Ukraine, Kyiv, Ukraine)
- 0 **11. Using the potential of Ukraine in complex projects of heat generation.**
Valyl Jakubovskii, Andrii Pavliv ("NPO Ecotech", Kyiv, Ukraine)
- 0 **12. Experience in the production of heat using boilers Kalvis**
Anatolii Ponikarchuk (Volyn-Kalvis Ltd., Kovel, Ukraine)

Reception for the conference participants

18:00 – 20:00

Wednesday, 24 September 2014

BIG HALL

Plenary Session P2

9:00 – 10:30

Chairpersons

Yevgen Oliynyk
Yuriy Matveev

- 9:00-9:20 **P 2.1 Technical and economic indicators for projects aimed at implementation of boiler-houses and CHPs fired with solid biofuel in industrial and municipal energy system.**
Yevgen Oliynyk (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 9:20-9:40 **P 2.2 Use of waste of agroindustrial complex of Ukraine for the production of biogas and biomethane.**
Yuriy Matveev (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 9:40-10:00 **P 2.3 Production of heat and electricity from local fuels.**
Nikolay Doroshenko (Valmet Power Oy, Finland)
- 10:00-10:15 **O 2.4 Ukraine UNDP GEF bioenergy project.**
John OBrien (UNDP)
- 10:15-10:30 **O 2.5 EBRD: Ukraine Sustainable Energy Lending Facility.**
Valentin Didyk (USELF, Kyiv, Ukraine)

Coffee-break 10:30 – 11:00

LITTLE HALL

Seminar on Bioenergy Cooperation Ukraine – Netherlands 9:00 – 13:00

BIG HALL

Section 1 (Biomass resources and pre-treatment) 11:00 – 13:00

Chairpersons

Andrej Stanev

Ruslan Tormosov

- O 13. Norms and standards for biofuels: trends and characteristics of standardization processes in Germany and the EU.**
Andrej Stanev (Agency for Renewable Resources, Guelzow, Germany)
- O 14. Are Ukrainian manufacturers of solid biofuels capable to meet the growing demand on the domestic market?**
Vitalii Davii (Association of alternative fuels market players of Ukraine, Kyiv, Ukraine)
- O 15. Economic problems and prospects of projects implementation for the replacement of natural gas by local biomass in municipal energy system.**
Ruslan Tormosov (All-Ukrainian Charitable Organization “Municipal Development Institute”, Kyiv, Ukraine)
- O 16. Features of the technical projects development for biomass boilers in district heating systems.**
Anatolii Koliienko, Volodymyr Koliienko (All-Ukrainian Charitable Organization “Municipal Development Institute”, Kyiv, Ukraine)
- O 17. Justification of functional logistic schemes to ensure biofuels needs for municipal energy sector.**
Semen Dragnev, Oleksiy Verba (All-Ukrainian Charitable Organization “Municipal Development Institute”, Kyiv, Ukraine)

- 0 18. **Presentation of highly efficient pellet burners and modular boiler for pellets with efficiency more than 90%.**
Mikhail Kuzub, Vyacheslav Rogoza (LLC "Engineering Center" In- Di ", Kharkiv, Ukraine)
- 0 19. **District Heating Systems using TTS boilers in the Czech Republic and Slovakia.**
Oleksandr Moroz (Office Intech and TTS in Ukraine)
- 0 20. **The replacement of natural gas by direct combustion and gasification of biomass.**
Arkadii Segal, Konstantin Pyanykh (Kiev bioenergy company, Gas Institute of the NAS of Ukraine)

Lunch 13:00 – 14:30

Visual presentations

14:30 – 17:30

BIG HALL

Section 2 (Biogas)

14:30 – 16:00

Chairpersons

Yuriy Matveev
Lesya Matiyuk

- 0 21. **Energy and soil conditioner from manure and zeolite.**
Willem Jan Oosterkamp, (Oosterkamp Oosterbeek, The Netherlands)
- 0 22. **Experience in operating of biogas plant for cattle manure.**
Sergii Dmitriev ("Ukrainian Milk Company", Ukraine)
- 0 23. **Preparation of multilateral projects in the field of bioenergy: background, financing, practical algorithm of actions for entrepreneurs.**
Lesya Matiyuk (Agency for Renewable Resources, Guelzow, Germany)
- 0 24. **A study of efficiency of manure with plants anaerobic co-digestion.**
Petr Kucheruk (Institute of Engineering Thermophysics of NASU, SEC Biomass, Kyiv, Ukraine)
- 0 25. **Increasing of debit of gas extraction well at the MSW dump and landfill.**
Boris Basok., Denis Kutsyi, Yuriy Matveev (Institute of Engineering Thermophysics of NASU, SEC Biomass, Kyiv, Ukraine)
- 0 26. **The air conditioning system of sewage and sludge disposal at the local wastewater treatment plants of biomass TPP with capacity 18 MW in the village Ivankiv Kyiv region.**
Olena Kotsar (Ltd. YUNILOS Ukraine)

Coffee-break 16:00 – 16:30

BIG HALL

Section 3 (Electricity generation and heat production from solid biomass)

16:30 – 17:30

Chairperson

Isaak Sigal
Tetiana Zheliezna

- 0 27. **Fast Pyrolysis of Biomass in the Ablative Screw Reactor of the Mobile Installation of 50 kg/h productivity.**
Georgii Geletukha*, Michel Gray**, Clare Carman***, Vitalii Zubenko*, Sergey Chaplygin* (* - Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine; ** - Pacific Northwest National Laboratory, Richland, USA; *** - CSA Energy, Inc., Hickman, Kentucky, USA).
- 0 28. **Features of combustion and experience of biogas combustion in industrial boilers.**
Isaak Sigal, Oleksii Marasin, Anatolii Smikhula (Gas Institute of the NAS of Ukraine, Kyiv, Ukraine)

- 0 29. **Prospects for the use of agricultural crop residues for energy production in Ukraine.**
Tetiana Zheliezna, Georgii Geletukha (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 0 30. **Energy and environmental analysis of bioenergy technologies in Ukraine.**
Olga Drozdova, Tetiana Zheliezna (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 0 31. **Prospects for the growing and use of energy crops in Ukraine.**
Oleksandra Tryboi (Institute of Engineering Thermophysics of NASU, SEC Biomass, Kyiv, Ukraine)

Closing Session

17:30 – 18:00

Concluding Speech

Georgii Geletukha, Chairman
Kees Kwant, Co-Chairman

Visual presentations

Wednesday, 24 September 2014, 14:30–17:30

- v 1. **Theoretical aspects of receipt of biological fuel granules are in matrix granular.**
Oleksandr Yeremenko, Sergii Vigovsky (National University of Life and Environmental sciences of Ukraine, Kyiv, Ukraine)
- v 2. **Anaerobic fermentation of plant row material and process optimization using cellulase enzymes.**
Kostantyn Korolyuk (SE "ENZYME" Ladyzhyn biologics plant, Ladyzhyn, Ukraine)

Wednesday, 24 September 2014

Seminar on Bioenergy Cooperation Ukraine – Netherlands

24 September, 9:00 – 13:00

Location: Kyiv, Ukraine

Goal: Clean, Efficient Bioenergy implementation in Ukraine, development of joint projects

Ukraine is facing major energy challenges and biomass as a resource could substantially contribute to the supply of heat, power and fuels. Dutch companies have experience in development of bioenergy in all forms; Anaerobic Digestion, Combustion, Co-firing, Energy from Waste, Biofuel production and biobased economy both from the research and industrial point of view. This Seminar will focus on exploring cooperation possibilities to develop jointly projects in the area of bioenergy. Ukraine companies and governmental institutes are invited to express their interest in advance and active matchmaking will be arranged.

Program

Time	Speaker	Title of presentation
9:00	Evert Jan Krajenbrink, Embassy of the Kingdom of the Netherlands in Ukraine	Welcome and Opening
9:10	Kees Kwant, RVO	Bioenergy and Biobased Economy developments in the Netherlands
9:30	Herman Klein Teeselink, HoSt	Project development of CHP in Ukraine
9:45	Georgii Geletukha, Bioenergy Association of Ukraine	Financial Support for Bioenergy in Ukraine
10:00	Nadezhda Ryzanova, International Finance Corporation	Opportunities for financing bioenergy projects
10:15	Elena Tochilina, UKEEP	Financing and independent consulting support for renewable energy projects
10:30	<i>Coffee break</i>	
	<i>Examples of Cooperation Ukraine - Netherlands</i>	
10:45	Reserve (to be specified)	To be specified
11:00	Wolter Elbersen, Wageningen University	Sustainable biomass chains for the Biobased Economy and Reed valorization in Poltava
11:15	Oleksiy Stoyanovsky, "The Bioenergy International" magazine	Request for support on local project development
11:30	Willy Bijen, KARA Energy Systems B.V.	Biomass for District Heating
11:45	Wim Maaskant, BGP Engineers	Project development for local heating in Odessa
12:00	MATCHMAKING	In a 15 minutes viz a viz, each participant will have the opportunity to speak with a potential partner for project development.
13:00	Closure	