

12th International Conference on  
"Biomass for Energy"  
September 20-21, 2016, Kyiv, Ukraine

## Program

### *Organizers of the Conference:*



Bioenergy Association of Ukraine



State Agency for Energy Efficiency and  
Energy Saving of Ukraine



Renewable Energy Agency



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



Scientific Engineering Centre "Biomass"

### *Sponsors of the Conference:*



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### *Sponsor of the Seminar "Bioenergy Cooperation Ukraine-Netherlands":*



Netherlands Enterprise Agency  
Ministry of Economic Affairs,  
the Netherlands;

The Embassy of the Kingdom of the  
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### *Conference supported by*

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

## Supported by

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

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# Program outline

**Tuesday, 20 September 2016**

8:30 – 9:30	<i>Registration of the conference participants</i>
9:30 – 10:00	<b>BH:</b> Opening ceremony
10:00 – 11:00	<b>BH:</b> Plenary session <b>P1</b>
11:00 – 11:30	<i>Coffee break</i>
11:30 – 13:00	<b>BH:</b> Panel discussion
13:00 – 14:15	<i>Lunch</i>
14:15 – 16:00	<b>BH:</b> Section <b>C4</b> (Strategy and policy issues)
16:00 – 16:30	<i>Coffee break</i>
16:30 – 18:15	<b>BH:</b> Section <b>C3</b> (Electricity generation and heat production from solid biomass)
18:15 – 20:00	<i>Reception for the conference participants</i>

**Wednesday, 21 September 2016**

9:00 – 10:30	<b>BH:</b> Plenary session <b>P2</b>	<b>9:00-9:30 SH:</b> Registration and morning coffee <b>9:30-10:40 SH:</b> Seminar on Bioenergy Cooperation Ukraine – Netherlands
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 13:00	<b>BH:</b> Section <b>C1</b> (Biomass resources and pre-treatment)	<b>11:00-12:30 SH:</b> Seminar on Bioenergy Cooperation Ukraine – Netherlands
13:00 – 14:15	<i>Lunch</i>	
14:15 – 16:00	<b>BH:</b> Section <b>C2</b> (Biogas)	<b>14:00-17:00 SH:</b> Matchmaking between the Ukrainian and Dutch companies and Mini Class: Entrepreneurship and project development, guidelines for good project development in Ukraine will happen in parallel <b>17:00 SH:</b> Closure
16:00 – 16:30	<i>Coffee break</i>	
16:30 – 17:45	<b>BH:</b> Section <b>C3</b> (Electricity generation and heat production from solid biomass)	
17:45 – 18:00	<b>BH:</b> Closing ceremony	

Legend in the Program outline:

- BH** – Big Hall (1<sup>st</sup> floor)  
**SH** – Section Hall (2<sup>st</sup> floor)

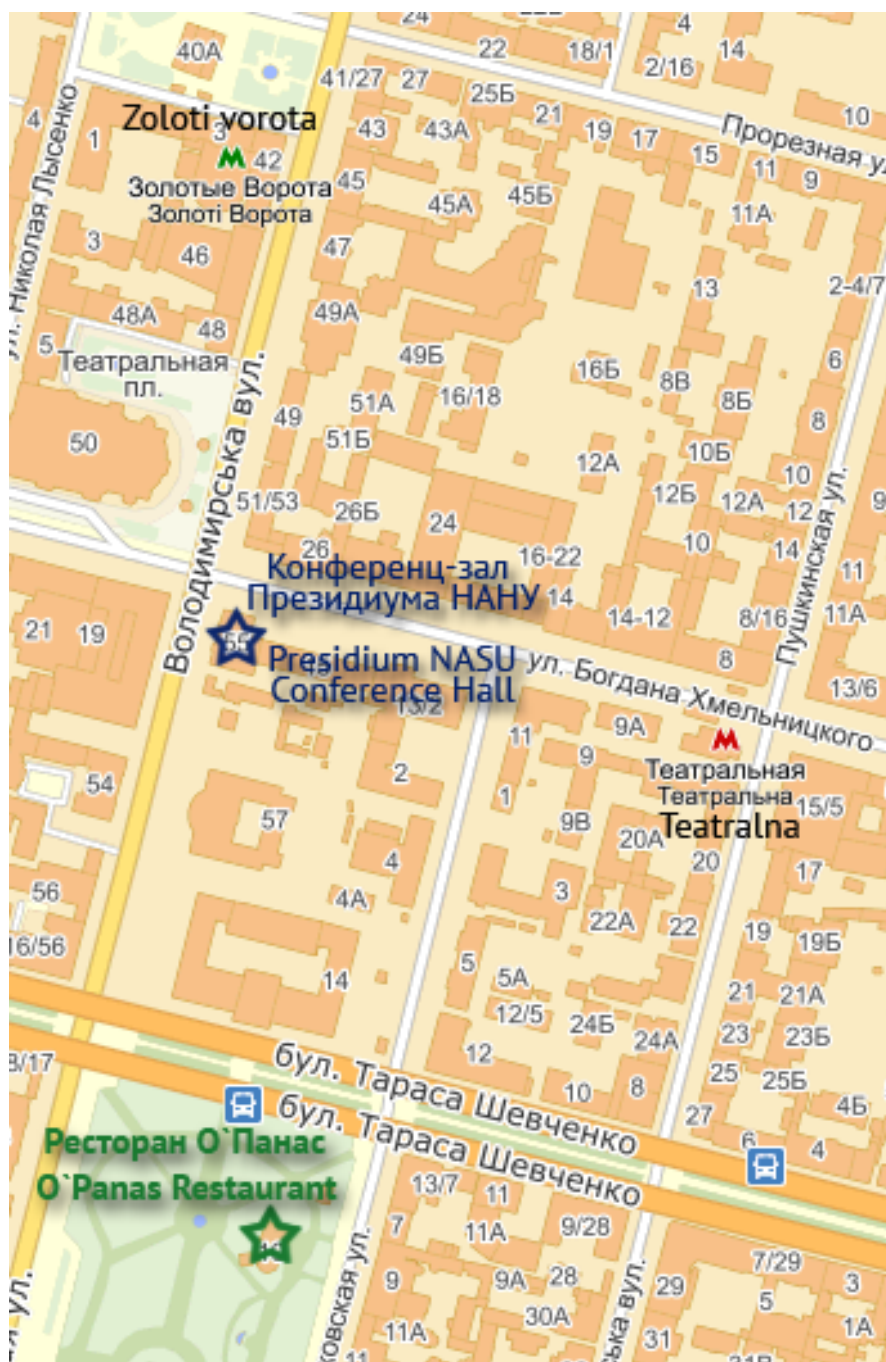
- Section 1            Biomass resources and pre-treatment  
Section 2            Biogas production and use  
Section 3            Electricity generation and heat production from solid biomass  
Section 4            Strategy and policy issues

## 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).

Lunches for the Conference participants 20-21 September 2016 will be organized at Restaurant O'Panас: 10, Tereshchenkivska Str., Kyiv (★ marked on the map)



# Tuesday, 20 September 2016

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

## BIG HALL

### **Opening Ceremony**

**9:30 – 10:00**

Welcome Addresses **Georgii Geletukha**  
Chairman  
Bioenergy Association of Ukraine (UABio)  
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  
**Sergii Savchuk**  
Head of State Agency for Energy Efficiency and Energy Conservation of Ukraine  
**Kees Kwant**  
Co- Chairman  
Netherlands Enterprise Agency, The Netherlands  
**Representatives of legislative and executive power**

## BIG HALL

### **Plenary Session P1**

**10:00 – 11:00**

- P 1.1 Title to be specified.**  
Sergii Savchuk (Head of State Agency for Energy Efficiency and Energy Conservation of Ukraine)
- P 1.2 State and prospects of bioenergy development in Ukraine.**  
Georgii Geletukha (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics NASU, Kyiv, Ukraine)
- P 1.3 Title to be specified.**  
Oleksandr Dombrovskiy (People’s deputy of Ukraine)

*Coffee-break 11:00 – 11:30*

## BIG HALL

### **Panel discussion “The development of bioenergy in Ukraine: achievements and obstacles. Prospects for a competitive heat market”**

**11:30 – 13:00**

Participants of discussion: Georgii Geletukha (Bioenergy Association of Ukraine)  
Oleksandr Dombrovskiy (People’s deputy of Ukraine, 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)  
Diana Korsakaite (USAID Municipal Energy Reform Project in Ukraine)  
Virginijus Ramanaukas (LITBIOMA, Lithuania)  
Sergiy Maslichenko (EBRD, Ukraine)  
Ivan Nadein (Group of companies Ukrteplo, UABio)  
Volodymyr Maistryshin (Bioenergy Association of Ukraine)

*Lunch 13:00-14:15*

## BIG HALL

### **Section 4 (Strategy and policy issues) 14:15 – 16:30**

Chairpersons

Kees Kwant,  
Diana Korsakaite

- 0 1. **Generation of heat from biomass in Lithuania.**  
Virginijus Ramanauskas (LITBIOMA, Vilnius, Lithuania)
- 0 2. **The role of biomass in a low carbon economy.**  
Kees Kwant (Netherlands Enterprise Agency, The Netherlands)
- 0 3. **Initiative of WBA to develop fossil fuel exit strategy and expand biomass energy worldwide as a tool to combat climate change.**  
Remigjus Lapinskas (President of the World Bioenergy Association (WBA))
- 0 4. **Strategic opportunities and challenges to competitive heat market development in Ukraine.**  
Diana Korsakaite (USAID Municipal Energy Reform Program in Ukraine)
- 0 5. **Biomass Exchange contribution to the market development: Lithuanian experience.**  
Andrius Smaliukas (BALTPPOOL UAB, Vilnius, Lithuania)
- 0 6. **Development and commercialization of bioenergy technologies in Ukraine.**  
Volodymyr Lyashchenko (UNDP Project, Ukraine)
- 0 7. **Preparation and financing of renewable energy projects in Ukraine: the experience of the EBRD.**  
Sergiy Maslichenko (EBRD, Ukraine)
- 0 8. **Programs funding for energy efficiency projects from Raiffeisen Bank Aval.**  
Nikolay Volkov (Raiffeisen Bank Aval, Kyiv, Ukraine)
- 0 9. **Financing of energy saving and energy efficiency projects.**  
Rodion Morozov (UkrGasbank, Kyiv, Ukraine)

*Coffee-break 16:30 – 17:00*

## BIG HALL

### **Section 5 (Electricity generation and heat production from solid biomass) 17:00 - 18:15**

Chairpersons

Volodymyr Maistryshin,  
Konstantin Bogatov

- 0 10. **Problematic issues regarding the production of electricity and heat from biomass.**  
Volodymyr Kukovalsky, Volodymyr Pylypiv, Ivanov (Smilaenergo Ltd., Smila, Ukraine)
- 0 11. **The transition to market prices for gas: the possibilities open to producers of heat from renewable energy sources.**  
Ivan Nadein (Group of companies Ukrteplo, Kyiv, Ukraine)
- 12. **Practical experience of energy crops project implementation.**  
Konstantin Bogatov («Salix Energy» Ltd, Bioenergy Association of Ukraine)
- 0 13. **Experience in the production and implementation of biomass boilers Volyn-Kalvis.**  
Anatolii Ponikarchuk (Volyn-Kalvis Ltd., Kovel, Ukraine)
- 0 14. **Features of working with heat networks under transition to the heat market.**  
Volodymyr Maistryshin (Bioenergy Association of Ukraine, Kyiv, Ukraine)

***Reception for the conference participants***

***18:15 – 20:00***



## Wednesday, 21 September 2016

### BIG HALL

#### **Plenary Session P2**

**9:00 – 10:30**

Chairpersons

Yuriy Matveev,  
Jeffrey Skeer

- 9:00-9:20    **P 2.1    Biomass boiler market study and prospects for development of Ukraine.**  
Yevgen Oliynyk (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 9:20-9:40    **P 2.2    Market research of production and consumption of biomass pellets in Ukraine.**  
Volodymyr Kramar (SEC Biomass, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 9:40-10:05    **P 2.3    Development of biogas and biomethane market in Ukraine.**  
Yuriy Matveev (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 10:05-10:30    **P 2.4    The key role of biomass in expanding renewable energy use in Ukraine.**  
Jeffrey Skeer (IRENA, Bonn, Germany)

*Coffee-break 10:30 – 11:00*

### SECTION HALL

***Seminar on Bioenergy Cooperation Ukraine – Netherlands*    9:00 – 17:00**

### BIG HALL

#### ***Section 1 (Biomass resources and pre-treatment)***

**11:00 – 13:00**

Chairpersons

Tetiana Zheliezna,  
Volker Sasse

- 0    **15.    German experiences in current bio energy developments and regulations.**  
Volker Sasse, Andrey Stanev (German-Ukrainian agropolitical dialog; FNR, Germany)
- 0    **16.    Technology of the effectiveness in getting thermal energy.**  
Yurii Farenjuk (TEFF LLC, Odessa, Ukraine)
- 0    **17.    Practical legal aspects of bioenergy projects implementation.**  
Maksym Sysoiev (LLC "Dentons Europe", Kyiv, Ukraine)
- 0    **18.    Experience of Avers Ukraine company in organization of harvesting and logistics of straw as fuel and raw material for the production of pellets.**  
Dmitrii Muravsky, Oleksii Kotvytskyi (LLC «Avers Ukraine», Kyiv, Ukraine)
- 0    **19.    Experience of Avers Ukraine company in the production and operation of boilers for burning pellets from straw.**  
Dmitrii Muravsky, Oleksii Kotvytskyi (LLC «Avers Ukraine», Kyiv, Ukraine)
- 0    **20.    Experience of wood chips boilers implementation in Vinnitsa.**  
Sergii Palamarchuk (Vinnitsateploenergo, Vinnitsa, Ukraine)
- 0    **21.    Analysis of criteria for the sustainable development of bioenergy.**  
Tetiana Zheliezna (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)

- 0 22. **Potential of biomass from *Miscanthus x giganteus* producing at the military contaminated land.**  
Valentina Pidlisnyuk, Tetyana Stefanovska, Ludmila Kava, Josef Trögl, Larry Erickson (Department of Technical Sciences, Faculty of Environment, Jan Evangelista Purkyně University in Ústí nad Labem, Czech Republic; Department of Plant Protection, Natural University of Life and the Environmental Sciences, Kyiv, Ukraine; Department of Chemical Engineering, Kansas State University, USA)
- 0 23. **Practical aspects of the operation of boilers production LLC "SK Enerhoprostir".**  
Oleksandr Zemlyanka (LLC "SK Enerhoprostir", Dnipro, Ukraine)

*Lunch 13:00 – 14:15*

### BIG HALL

#### **Section 2 (Biogas) 14:15 – 16:00**

Chairpersons Yuriy Matveev  
Oleksii Krivolapov

- 0 24. **Experience of biogas technologies implementation at enterprises of PJSC "Myronivskiy Khiboproduct".**  
Oleksandr Dombrovskiy, Ivan Traksler (People's deputy of Ukraine, PJSC "Myronivskiy Khiboproduct", Ukraine)
- 0 25. **The experience of Astarta on the production and use of biogas in Ukraine.**  
Oleksii Krivolapov (Agropromholding Astarta-Kyiv, Ukraine)
- 0 26. **Progress in anaerobic mono-digestion of swine manure**  
W.J. Oosterkamp (Oosterkamp Oosterbeek, Netherlands)
- 0 27. **Legislative changes required for biomethane production and consumption in Ukraine.**  
Olga Sydoruk, Yuriy Matveev, Georgii Geletukha (Bioenergy Association of Ukraine, Institute of Engineering Thermophysics of NASU, Kyiv, Ukraine)
- 0 28. **Energy from biogas combustion: role in creation and dissemination of sustainable life style models, including low-carbon models.**  
Maryna Bereznytska (Private consultant, Kyiv, Ukraine)
- 0 29. **Cogeneration gas reciprocating installation on alternative fuels.**  
Igor Chabanov (ALC «Pervomaiskieselmash», city Pervomaisk, Ukraine)
- 0 30. **Industrial Parks. New opportunities for business development in Ukraine.**  
Iryna Petrenko (VIP Consulting, Kyiv? Ukraine)
- 0 31. **Guascor cogeneration gas gensets in biogas technologies.**  
Oleksiy Balaba (Siemens Ukraine, Kyiv, Ukraine)

*Coffee-break 16:00 – 16:30*

### BIG HALL

#### **Section 3 (Electricity generation and heat production from solid biomass) 16:30 – 17:45**

Chairperson Olha Haidai  
Semen Drahniev

- 0 32. **Analysis of the operation of a CHP unit based on the Stirling engine integrated with biomass gasification and heat storage.**  
Anna Skorek-Osikowska, Łukasz Bartela, Janusz Kotowicz, Klaudia Dubiel, Leszek Remiorz (Institute of Power Engineering and Turbomachinery, Silesian University of Technology, Poland)
- 0 33. **Use of the Stirling engine in a cogeneration system based on a biomass gasification process.**  
Łukasz Bartela, Leszek Remiorz, Anna Skorek - Osikowska, Janusz Kotowicz, Klaudia Dubiel (Institute of Power Engineering and Turbomachinery, Silesian University of Technology, Poland)



- 0 34. **uP\_running project: A new initiative to promote the use of agrarian pruning and plantation removal wood for energy purposes.**  
Olha Haidai, Semen Drahniev (SEC Biomass, Kyiv, Ukraine)
- 0 35. **Analysis of additional sources of wood fuel in Ukraine.**  
Anatolii Bashtovyi, Tetiana Zheliezna, Oleksandr Diachenko (Bioenergy Association of Ukraine, Kyiv, LLC AltBioT, Irpin city, Ukraine)
- 0 36. **Opportunities for harvesting by-products of grain corn for energy production in Ukraine.**  
Semen Drahniev (SEC Biomass, Kyiv, Ukraine)

### ***Closing Session***

***17:45 – 18:00***

Concluding Speech

Georgii Geletukha, Chairman  
Kees Kwant, Co-Chairman

# Seminar on Bioenergy Cooperation Ukraine – Netherlands

Wednesday, 21 September 2016, 9:00 – 17:00

**Location:** Kyiv, Ukraine, Volodymyrska str., 55, Section Hall on the second floor

**Goal:** Bioenergy implementation in Municipalities of Ukraine

Ukraine is facing major energy challenges and biomass as a resource could substantially contribute to the supply of heat, power and fuels. Both Ukraine and The Netherlands are increasingly looking for high-quality and reliable alternatives to become less dependent on traditional sources for energy production. The Netherlands could be an ideal partner to cooperate with to unlock the full potential of reliable and high-quality biobased energy production in Ukraine. Compared to other countries, the Netherlands embraces challenges and explore on and off the beaten path to reveal possibilities and integrated solutions. Dutch solutions are characterized by efficiency, high-technology, expertise, experience, and adaptability. 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 the projects in the area of heating at the municipality level. Ukraine companies and governmental institutes and municipalities are invited to express their interest and active matchmaking will be arranged.

## PROGRAM

Time	Speaker	Topic
9:00	<i>Registration and morning coffee</i>	
9:30	Carolien Spaans, Agricultural counsellor, The Embassy of the Kingdom of the Netherlands in Ukraine	Welcome and Opening
9:35	Sergiy Savchuk, Head of State Agency on Energy Efficiency and Energy Saving of Ukraine	Welcome
9:40	Wim Maaskant, EES, Director	Partners in Business: Biobased Energy Ukraine
9:55	Willy Bijen, KARA, International Sales	Heating with your best available Biomass
10:10	Andriy Kyrchiv, Executive Director, Association of Energy Efficient Cities of Ukraine	Energy efficient cities in Ukraine and problems and solutions for Bioenergy
10:25	Georgiy Geletukha, Chairman of the Board of the UABio	Development of bioenergy in municipal sector of Ukraine
10:40	<b>Coffee break</b>	
11:00	Kees Kwant, Senior Expert Bioenergy and Biobased economy, Netherlands Enterprise Agency, Ministry of Economic Affairs, the Netherlands	Biomass Heating in industry and municipalities in the Netherlands
11:15	Wolter Elbersen, Wageningen UR/FBR, Senior Researcher Biomass and Bioenergy	Sustainable biomass chains in regions (tbc)
11:30	Gerard Muggen, BTG-BTL/Empyro, General Director	Pyrolysis for Valorisation of Biomass in Ukraine
11:45	Wim Maaskant / Andrej Yefimov, EES	ESCO solutions for financing and operation of local heating systems in Ukraine Project development for local heating in Odessa
12:00	Volodymyr Lyashchenko, Project Manager of UNDP Project "Development and Commercialization of Bioenergy Technologies in the Municipal Sector of Ukraine"	Prospects and challenges for biomass use in municipal heating and hot water supply in Ukraine
12:30	<b>Lunch</b>	
14:00-15:00	MATCHMAKING	In a 15 minutes viz a viz, each participant will have the opportunity to speak with a potential partner for project development.
15:00-17:00	MINI CLASS: Making business from sustainable energy	Jacques Bazen, Saxion University of Applied Science
17:00	<b>Closure</b>	