



Working Group on Capacity Building

Study Tour for Capacity Building

4th Bioenergy Week

Hungary, Budapest, 21-24 June 2016

*Conference Room, Ministry of Agriculture of Hungary
1055 Budapest, Kossuth Lajos ter 11*

Agenda

Hosted by:



MINISTRY
OF AGRICULTURE

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Food and Agriculture Organization
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MINISTRY FOR THE ENVIRONMENT
LAND AND SEA - ITALY



GBEP Working Group on Capacity Building (WGCB)

Study tour for capacity building and training (Activity Group 3)

Agenda for the 4th "Bioenergy Week"

Hungary, Budapest, 21-24 June 2016

Tuesday 21 June 2016	Wednesday 22 June 2016	Thursday 23 June 2016	Friday 24 June 2016
	<p align="center">SOLID BIOMASS AND AGRICULTURAL RESIDUES</p> <p align="center">Exchange of experiences and opportunities in the region in light of the advances in technology, market conditions and biomass solid fuel availability.</p> <p>Speakers will be invited to make cross cutting references to sustainability and to value chains approaches, challenges and opportunities.</p>	<p align="center">BIOGAS OPPORTUNITITES</p> <p align="center">Exchange of experiences and opportunities of biogas and biomethane developments in the region.</p> <p>Speakers will be invited to make cross cutting references to sustainability and to value chains approaches, challenges and opportunities.</p>	<p align="center">ROUNDTABLE discussions among policy makers, business sector and international banks/funds</p> <p align="center">***</p> <ol style="list-style-type: none"> Private sector experiences for development opportunities in the region Funding opportunities and project financing
	Lunch	Lunch	Lunch
<p align="center">OPENING Welcome Speeches</p> <p align="center">***</p> <p align="center">Bioenergy development and regulatory frameworks in Eastern Europe and Central Asia</p> <p align="center">Bioenergy Value Chains</p> <p align="center">State of the art, challenges and lessons learned</p>	<p align="center">LIQUID BIOFUELS OPPORTUNITITES IN THE REGION</p> <p align="center">Exchange of experiences and opportunities on liquid biofuels.</p> <p>Speakers will be invited to make cross cutting references to sustainability and to value chains approaches, challenges and opportunities.</p> <p align="center">Side event FINTECC project</p>	FIELD VISIT	<p align="center">ROUNDTABLE discussions among policy makers, business sector and international banks/funds (con't)</p> <p align="center">***</p> <p align="center">CONCLUSIONS Main messages and concluding remarks</p>
Dinner	Cocktail		

Tuesday, 21 June 2016

14.00 – 14.30 **Registration of participants and welcome coffee**

14.30 – 15.10 **Opening and Welcome**

Maria Michela Morese, GBEP Executive Secretary

Welcome remarks

- *Zsolt Feldman, Deputy State Secretary, Ministry of Agriculture, Government of Hungary*
- *Vladimir Rakhmanin, FAO Regional Representative for Europe and Central Asia*
- *Giovanni Brunelli, Director, Ministry for the Environment Land and Sea, Italy, GBEP Chair*
- *Amb. Valter Pecly Moreira, Embassy of the Federative Republic of Brazil in Hungary, GBEP Co-Chair*

15.10 – 16.20 **Bioenergy development and regulatory frameworks in Eastern Europe and Central Asia**

Keynote speaker and moderator: Jeffrey Skeer, IRENA

- From the IEA global vision for bioenergy to regional and local strategies to accelerate deployment, *Simone Landolina, IEA*
- UNECE Renewable Energy Status Report: focus on Bioenergy, *Gianluca Sambucini, UNECE*
- Bioenergy regulatory frameworks in the Region, *László Szabó, Regional Centre for Energy Policy Research (REKK)*
- The role of bioenergy in Hungary, *Szabolcs Vágvölgyi, Századvég Gazdaságkutató Zrt*

16.20 – 18.00 **Key elements to develop a bioenergy value chain**

Moderator: Sabine Ziem-Milojević, E4tech

Panelists will give a 15 minute overview of bioenergy related value chains with specific reference to actors involved, phases of the value chains and distribution of responsibilities among actors, status quo in the region, challenges and opportunities. Questions and Answers with the involvement of the audience will follow.

- Value Chain for biogas, *Guido Bezzi, Italian Consortium Biogas – CIB, Italy*
- Value chain for liquid biofuels – the Cometha project, *Stefano Capaccioli, ETA-Florence/EUBIA*

- Value chain for woody biomass, *Nicoleta Ion, ENERO*
- Value chain for 2nd generation biofuels, *Federico Grati, Clariant*
- *Q&A - Challenges and positive experiences*

19.30 – 21.30 **Dinner kindly hosted by the Ministry of Agriculture of Hungary, with support by FAO and GIZ**

Cruising dinner on the Danube River: Boat Millennium 1, departing from and returning to Jászai Mari Square, Dock 1.

Reserved to participants who provided confirmation in advance.

<p>Wednesday, 22 June 2016</p>

09.00 – 10.30 **SOLID BIOMASS AND AGRICULTURAL RESIDUES – Exchange of experiences and opportunities in the region in light of the advances in technology, market conditions and biomass solid fuel availability.**

Chair: George Abulashvili, Energy Efficiency Center, Georgia

Speakers will be invited to give a 10 minute presentation on their experiences and lessons learned. Questions and Answers with the involvement of the audience will follow in order to identify challenges and opportunities in the region.

- The experience in Hungary, *Arnold G3r, Hungarian Chamber of Agriculture*
- The experience of biomass power plants in Hungary, *P3ter Rudolf, Secretary General, Biomasszaer3m3v3ek Egyes3l3se, Hungary*
- Bioenergy development in Serbia - The role of households, *Sabine Ziem-Milojevi3, Efficient firewood utilization in households, E4tech/GIZ DKTI Program*
- Promoting biomass switch in district heating in the Balkans – The UNEP experience, *Sonja Malicevic, UNEP Vienna*
- Experience and prospects of use of animal waste in the Republic of Belarus, *Leonid Poleschuk, Ministry of Agriculture and Food, Belarus*
- *Q&A - Challenges and positive experiences*

10.30 – 11.00 **Coffee break**

11.00 – 12.30

- Experience in Georgia, *Natalia Jamburia, Ministry of Energy, and Giorgi Ghambashidze, Ministry of Agriculture, Georgia*

- Macroeconomic study on net effects of import substitution of fossil fuels with solid biomass in Serbia, *Rainer Schellhaas, GIZ DKTI Program*
- Results and lesson learned from Moldova Energy and Biomass Project (phase I), *Nicolae Olari, Ministry of Economy, Moldova*
- Alternative sources of bioenergy in Tajikistan, *Khusrav Abdulloev, Ministry of Energy and Industry, Tajikistan*
- Status and prospects of raw materials for biofuel production in Ukraine, *Volodymyr Ivasiuk, Ministry of Agrarian Policy and Food, Ukraine*
- The experience in Uzbekistan, *Nasriddin Najimov, Ministry of Agriculture and Water Resources, Uzbekistan*
- *Q&A - Challenges and positive experiences*

12.30 – 14.00 **Lunch break**

14.00 – 15.30

- An example of R&D experience, *Franco Cotana, University of Perugia, Italy*
- Competition of wood resource procurement among biomass power plants: Japan's experience, *Daisuke Kunii and Takashi Hayashi, Japan*
- Piloting agricultural waste to meet energy demand in Georgian Covent Signatories, *George Abulashvili, Energy Efficiency Center, Georgia*
- The experience of Turboden in the region, *Francesca Ettorre, Turboden*
- The experience in Bosnia and Herzegovina, *Nihad Harbas, Promotion of Renewable Energy in Bosnia and Herzegovina, GIZ*
- *Q&A - Challenges and positive experiences*

15.30 – 16.00 **Coffee break**

16.00 – 17.30 **LIQUID BIOFUELS OPPORTUNITIES IN THE REGION - Exchange of experiences and opportunities on liquid biofuels**

Chair: Simone Landolina, IEA

Speakers will be invited to give a 15 minute presentation on their experiences and lessons learned. Questions and Answers with the involvement of the audience will follow in order to identify challenges and opportunities in the region.

- Second Generation biodiesel from waste and secondary raw material, *Anita Simon, COO, Biofilter Zrt. Co., Hungary*
- Industrial experience in Second Generation Ethanol production with PROESA™ Technology Experience, *Giuliano Ghiglione, Beta Renewables*
- Opportunities for the development of sustainable biomass value chains on underutilized lands in the Region: the FORBIO Project, *Marco Colangeli, FAO and Nicoleta Ion, ENERO*
- The experience of Pannonia Ethanol in Hungary, *Eric Sievers, Pannonia Ethanol Zrt.*
- The experience of Hungrana in Hungary, *Zoltán Reng, Hungrana Kft.*
- *Q&A - Challenges and positive experiences*

18.00 – 19.00

Side Event

Accelerating transition to sustainable climate technologies.

EBRD – FAO – IEA collaborative work

Moderator: Astrid Motta and Sumeet Manchanda, EBRD

- Monitoring the adoption of key sustainable climate technologies in the agri-food sector, *Nuno Santos and Alessandro Flammini, FAO*
- *Q&A*
- Assessing the market penetration of renewable energy and energy efficiency technologies – highlights from a case study in Belarus, *Simone Landolina and Sonja Lekovic, IEA*
- *Q&A*

19.00 – 20.30

Cocktail kindly offered by EBRD

<p>Thursday, 23 June 2016</p>

09.00 – 10.30

BIOGAS OPPORTUNITIES – Exchange of experiences and opportunities of biogas and biomethane developments in the region.

Chair: Georgiy Geletuka, Bioenergy Association of Ukraine (UABio)

Speakers will be invited to give a 15 minute presentation on their experiences and lessons learned. Questions and Answers with the

involvement of the audience will follow in order to identify challenges and opportunities in the region.

- Experience in Azerbaijan, *Tarlan Askarov, Ministry of Agriculture and Namig Salamov, Ministry of Energy, Azerbaijan*
- Biogas plants for small and medium size farms: experience of Kyrgyzstan, *Tatiana Vedeneva, Centre for Renewable Energy and Energy Efficiency Development (CREEED), Kyrgys Republic (recorded video/audio presentation)*
- Experience in Kyrgyzstan, *Zhanybai Tumanov, Kyrgyz Agrobio Center, Ministry of Agriculture and Melioration, Kyrgyzstan*
- Biogas experience in Hungary, *Kornél L. Kovács, President, Hungarian Biogas Association*
- Mushroom-biogas complex agrisystem, *Adrienn Nagy, Executive Director, Pilze-Nagy Zrt*
- *Q&A - Challenges and positive experiences*

10.30– 11.00 **Coffee break**

11.00 –12.30

- Biogas for domestic and industrial uses: the experience of CIBiogás-ER and ITAIPU in Brazil, relevant for the Eastern Europe and Central Asian region, *Marcelo Alves de Sousa, CIBiogás-ER, Brazil (recorded video/audio presentation)*
- How to develop a biogas system: requirements, logistics, regulations and economics of biogas plants in Europe, *Guido Bezzi, Italian Consortium Biogas – CIB, Italy*
- Biogas experience in Ukraine, *Georgiy Geletuka, Bioenergy Association of Ukraine (UABio)*
- Biomass resources and potentials in Mongolia, *Sambalkhundev Khas-Ochir, Ministry of Energy, Mongolia*
- *Q&A - Challenges and positive experiences*

12.30 – 14.00 **Lunch break**

14.00 **FIELD VISIT**

Participants will be divided into two groups for separate field visit tours during the same afternoon.

Location 1) Pilze-Nagy Ltd - raw material of oyster mushrooms, cultivation of oyster mushrooms and production of biogas.

Adress: Kecskemét, Talfája, 50, 6000

Proposed programme: duration 4 - 4,5 hours

Participants will visit 3 producing units: production of raw material of oyster mushrooms, cultivation of oyster mushrooms, and production of biogas.

Participants will have the opportunity to taste some food prepared with mushrooms. If possible and if time allows the visit could be extended to the nearby organic farm.

Location 2) South-Budapest WWTP - Budapest Sewage Works Ltd. – wastewater treatment and biogas plant.

Address: 1238 Budapest, Meddóhányó u. 1.

Proposed programme: duration 3 – 3,5 hours

Participants will visit the Budapest Sewage Works Ltd., a leading company in the establishment of environmentally friendly technologies and developments, notably the production of biogas and wastewater collection and treatment activities.

Friday 24 June 2016 – ROUND TABLE DISCUSSION among policy makers, business sector and international banks/funds

09.00 – 11.00 **ROUND TABLE 1 – Technology deployment and private sector experiences for development opportunities in the region**

Keynote speaker and moderator: Paolo Frankl, IEA

Speakers will be invited to give a 5 minute presentation on their experiences and lessons learned. Questions and Answers with the involvement of the audience will follow in order to identify challenges and opportunities in the region.

- *Giuliano Ghiglione, Beta Renewables*
- *Gerard J. Ostheimer, Novozymes*
- *Paolo Corvo, Clariant*
- *Jeroen van Campen, DuPont*
- *László Keresztury, MOL Hungary Zrt*
- *Zoltán Reng, Hungrana Kft.*
- *James Cogan, Pannonia Ethanol Zrt.*
- *Francesca Ettorre, Turboden*
- *Q&A - Challenges and positive experiences*

11.00 – 11.30 **Coffee break**

11.30 – 13.00 **ROUND TABLE 2 – Raising awareness on project financing opportunities for the development and deployment of bioenergy projects in Eastern Europe and Central Asia.**

Keynote speaker and moderator: Pjotr Schade, Everest Energy Group

Speakers will be invited to give a 5 minute presentation on their experiences and lessons learned, specifically focusing on the current and expected future situation, at policy/investment/project level. Presentations will be followed by a guided discussion aimed to exchange views on the current situation in the region and to discuss means to further improve the development and deployment of bioenergy projects in the future, looking at policy tools and targets, investments and industrial projects and activities.

Country experiences

- *Giorgi Ghambashidze, Ministry of Agriculture, Georgia*
- *Nihad Harbas, Promotion of Renewable Energy in Bosnia and Herzegovina, GIZ*

Development Bank experiences

- *Sumeet Manchanda, EBRD (European Bank for Reconstruction and Development)*
- *Dzenan Malovic, IFC (International Finance Corporation)*

Local Fund experiences

- *The experience in Hungary, Anikó Biczó, Director, Hungarian Export Import Bank*
- *The experience of Indonesia on financial schemes to support bioenergy development, Dadan Kusdiana, Director, Palm Oil Estate Fund, Indonesia*

Private sector company experiences

- *Piero Cavigliasso, BioChemtex Group*
- *Attila Kovács, First Hungarian Biogas and Solar Ltd, Hungary*

13.00 - 15.00

Lunch break

15.00 – 16.00

CONCLUSIONS .

Main messages from the Bioenergy Week and the role of GBEP to exploit opportunities and address challenges

Closing remarks

- *Zsolt Feldman, Deputy State Secretary, Ministry of Agriculture, Government of Hungary*
- *Maria Michela Morese, GBEP Executive Secretary*

16.00 – 16.30

Coffee break