



## Working Group on Capacity Building

### Study Tour for Capacity Building

#### 4<sup>th</sup> Bioenergy Week

*Hungary, Budapest, 21-24 June 2016*

*Conference Room, Ministry of Agriculture of Hungary*

*1055 Budapest, Kossuth Lajos ter 11*

### Tentative Agenda

Hosted by:



Supported by and in cooperation with:



Food and Agriculture Organization  
of the United Nations



European Bank  
for Reconstruction and Development



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für Internationale  
Zusammenarbeit GmbH 10221 Berlin



## GBEP Working Group on Capacity Building (WGCB)

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

*Agenda for the 4<sup>th</sup> "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><b>SOLID BIOMASS AND AGRICULTURAL RESIDUES</b></p> <p>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><b>BIOGAS OPPORTUNITIES</b></p> <p>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><b>ROUNDTABLE</b> discussions among policy makers, business sector and international banks/funds</p> <p>***</p> <ol style="list-style-type: none"> <li>1. Private sector experiences for development opportunities in the region</li> <li>2. Funding opportunities and project financing</li> </ol>
	Lunch	Lunch	Lunch
<p><b>OPENING</b> Welcome Speeches</p> <p>***</p> <p><b>Bioenergy development and regulatory frameworks in Eastern Europe and Central Asia</b></p> <p><b>Bioenergy Value Chains</b></p> <p>State of the art, challenges and lessons learned</p>	<p><b>LIQUID BIOFUELS OPPORTUNITIES IN THE REGION</b></p> <p>Exchange of experiences and opportunities on biodiesel and advanced bioethanol.</p> <p>Speakers will be invited to make cross cutting references to sustainability and to value chains approaches, challenges and opportunities.</p> <p><b>Side event</b> FINTECC project</p>	<p><b>FIELD VISIT</b></p>	<p><b>ROUNDTABLE</b> discussions among policy makers, business sector and international banks/funds (con't)</p> <p>***</p> <p><b>CONCLUSIONS</b> 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*
- *Representative from the Government of Italy, GBEP Chair*
- *Representative from the Government of Brazil, 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)*
- Bioenergy development in Eastern Europe and Central Asia, *Representative of Regional Environmental Centre (REC)*
- Bioenergy development in the European Union, *Representative of EU Commission*
- The role of bioenergy in Hungary, *Szabolcs Vágvolgyi, Századvég Gazdaságkutató Zrt*

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

*Moderator: Ausilio Bauen, E4Tech*

*Panelists will give a 10 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, *Representative from EUBIA*
- Value chain for woody biomass, *Representative from ENERO*
- Value chain for 2<sup>nd</sup> generation biofuels, *Representative from 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**

<p><b>Wednesday, 22 June 2016</b></p>
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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: National Agency for Rural Development (ACSA), Republic of Moldova*

*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, Biomasszaer3m3vek Egyes3l3se, Hungary*
- Bioenergy development in Serbia - The role of households, *Sabine Zielm-Milojevi3, Efficient firewood utilization in households, E4tech/GIZ DKTI Program*
- Promoting biomass switch in district heating in the Balkans – The UNEP experience, *Pier Carlo Sandei, UNEP Vienna*
- Experience in Armenia, *Hayk Badalyan, Ministry of Energy, Armenia*
- Experience in Belarus, *Representative from Belarus*
- *Q&A - Challenges and positive experiences*

10.30 – 11.00      **Coffee break**

11.00 – 12.30

- An example of R&D experience, *Franco Cotana, University of Perugia, Italy*
- 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*
- Experience in Moldova, *Representative from Moldova*
- Experience in Tajikistan, *Representative from Tajikistan*
- Status and prospects of raw materials for biofuel production in Ukraine, *Volodymyr Ivasiuk, Ministry of Agrarian Policy and Food, Ukraine*
- Experience in Uzbekistan, *Representative from Uzbekistan*
- *Q&A - Challenges and positive experiences*

12.30 – 14.00

**Lunch break**

14.00 – 15.30

- Experience in Country/Project (tbd)
- Experience in Country/Project (tbd)
- Experience in Country/Project (tbd)
- Experience in Country/Project (tbd)
- Experience in Country/Project (tbd)
- *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 biodiesel and  
advanced bioethanol**

*Chair: Simone Landolina, IEA*

*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.*

- Second Generation biodiesel from waste and secondary raw material, *Anita Simon, Production and Sale Deputy General Manager, Biofilter Zrt. Co., Hungary*
- Future plans in Belarus, *Representative from Belarus*
- The experience of the FORBIO project “Fostering Sustainable Feedstock Production for Advanced Biofuels on underutilised land in Europe”, *Marco Colangeli, FAO and Peter Gyuris, Geonardo*
- Experience in country/project tbd
- Experience in country/project tbd
- *Q&A - Challenges and positive experiences*

18.00 – 19.00

#### **Side Event**

**Accelerating transition to sustainable climate technologies.**

**EBRD – FAO – IEA collaborative work**

*Moderator: Gianpiero Nacci, 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, IEA*
- *Q&A*

19.00 – 20.30

**Cocktail kindly offered by EBRD**

<p><b>Thursday, 23 June 2016</b></p>
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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 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.*

- Experience in Azerbaijan, *Representative tbd*
- Biogas experience in Hungary, *Kornél L. Kovács, President, Hungarian Biogas Association*
- Experience in Kyrgyzstan, *Representative tbd*
- 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*
- 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)*
- Experience in Mongolia, *Sambalkhundev, Ministry of Energy, Mongolia*
- Experience in Turkmenistan, *Representative from Turkmenistan*
- *Q&A - Challenges and positive experiences*

12.30 – 14.00      **Lunch break**

14.00 – 17.00      **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.

Address: Kecskemét, Talfája, 50, 6000

Proposed programme: duration 2,5 - 3 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 2,5 - 3 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**

*Key note 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.*

- Sandro Cobror, BioChemtex Group
- Novozymes
- Dupont
- Maccaferri
- Paolo Corvo, Clariant
- Engineering Academy of the Kyrgyz Republic
- Bence Nagy, MOL Hungary Zrt
- 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.**

*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

- *Csaba Nemes, Ministry of National Development, Government of Hungary*
- *Representative from Azerbaijan, State Agency on Alternative and Renewable Energy Sources*

#### Development Banks experiences

- *Gianpiero Nacci, EBRD (European Bank for Reconstruction and Development)*
- *EIB (European Investment Bank)*
- *Nebojsa Arsenijevic and Viera Feckova, IFC (International Finance Corporation)*

#### Local Funds experiences

- *NEFCO (Nordinc Environment Finncace Corporation)*
- *Armenia Renewable Energy and Energy Efficiency Fund*
- *Moldovan Sustainable Energy Financing Facility*
- *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, Első Magyar Biogáz Kft, Hungary*

13.00 - 15.00	<b>Lunch break</b>
15.00 – 16.00	<b>ROUND TABLE 2 – Raising awareness on project financing opportunities for the development and deployment of bioenergy projects in Eastern Europe and Central Asia.</b>
16.00 – 16.30	<b>Coffee break</b>
16.30 – 17.30	<b>CONCLUSIONS</b> <i>Main messages from the Bioenergy Week and the role of GBEP to exploit opportunities and address challenges</i>  <i>Closing remarks</i> <ul style="list-style-type: none"><li>• <i>Zsolt Feldman, Deputy State Secretary, Ministry of Agriculture, Government of Hungary</i></li><li>• <i>Maria Michela Morese, GBEP Executive Secretary</i></li></ul>