

Project name:	International Conference on Bioenergy in Russia
Project type (level):	Workshop (International / Russia)
Date and venue:	5-6 June 2012, Ministry of Agriculture of the Russian Federation, Orlikov pereulok, 1/11 Moscow, Russia
Agenda	Annex 1
Workshop summary	Annex 2
Project objectives:	This conference aimed to support best practice sharing on bioenergy options for Russia, with focus on the use of waste and residues to provide guidance on future development of the Russian Bioenergy Technology Platform.
Project Outputs:	- Secure agreement by Russia to support the development of a How2Guide for Bioenergy (including agreement to host a How2Guide drafting workshop in Q1 2013); - Accelerate Russia's accession to the IEA Bioenergy Implementing Agreement; - Support the Russian Bioenergy platform in its efforts to develop a national roadmap for bioenergy by: - Providing ad hoc guidance on roadmap structure during the roadmapping process; - Peer-reviewing the roadmap once completed; - Increase information sharing through IEA Technology Platform and Russian bioenergy platform websites.
No. of participants:	100-150 This workshop was attended by representatives from government, private sector, and finance institutions among others.
Project partners:	<u>Project leader:</u> International Energy Agency <u>Project partners:</u> - Kurchatov Institute, Russia - Russian Bioenergy Technology Platform <u>Host:</u> Ministry of Agriculture of the Russian Federation
Project details:	The Conference aimed to: - Present and discuss Russia's vision for bioenergy both at the national and local levels; - Explore the role of Russia in the global and regional bioenergy market; - Share international technology and policy best practice on bioenergy; - Share findings of the recently launched IEA Technology Roadmap on Bioenergy for Heat and Power; - Explore the potential for follow-up activities with the IEA Technology Platform and other invited stakeholders with respect to the Russian national Technology Platform. It should be noted that, in collaboration with Inter RAO United Energy Systems of Russia, and through the Technology Platform, the IEA organised a 0.5-1 day training workshop on the 4th June 2012 covering roadmap development methodology, and also to be hosted in Moscow. The scope of this event included focus on bioenergy and efficient thermal power, with the aim of supporting wider Russian technology

	roadmap ambition.
Follow up activities:	- Roadmap development - Indirect support for the development of a bioenergy roadmap for Russia; - How2Guides – collaboration for the development of technology (or system) specific and geographically neutral (i.e. applicable in any country or region) methodology tools for roadmap development for bioenergy.



MINISTRY OF AGRICULTURE
OF THE RUSSIAN FEDERATION



International
Energy Agency



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Annex 1: Agenda

Day 1 Tuesday, 5 June

9:00-09:45 Registration and coffee

9:45-10:45 **Session 1: Welcome and opening session**

Chair: Reutov B.F., Coordinator of Russian Bioenergy Technology Platform

Welcome by Fedorov N.V., Minister of Agriculture of the Russian Federation

Keynote speeches:

- **Petrikov A.V.**, Deputy Minister of Agriculture, Russia
- **Shadrin A.E.**, Director of the Department of the Ministry of Economic Development of the Russian Federation
- **Grachev I.D.**, Chairman of the Committee on Energy of the State Duma of Russian Federation
- **Benterbusch Ulrich**, International Energy Agency
- **Drake Frank-Detlef**, RWE
- **Okunev A.**, Director for cooperation with government authorities, «SKOKOVO» Fund
- **Nazarov V.L.**, General Director, «Rosagroleasing»
- **Patrushev D.N.**, Chairman of the Board, «Russian Agricultural Bank»

10:45-12:30 **Session 2: Perspectives on Bioenergy in Russia and worldwide**

Chair: Sutyaginskiy M.A., Co-chair of Russian Bioenergy Technology Platform, President of NP «Centre of innovations», Project Operator of «IARC: industrial and agricultural regional clusters»

Presentations:

- **Nungezer V.V.**, Director of the Department of Science and Technology Policy and Education of Russian Ministry of Agriculture: «Regional «Bio-Clusters» and the role of bioenergy for sustainable development in Russian regions»;
- **Brown Adam**, Senior analyst, International Energy Agency: «The role of bioenergy for electricity generation: global and regional outlook»;
- **Vasilov R.G.**, President, Russian Society of Biotechnologist, Chairman of Advisory council, Bioenergy Technology Platform: «Bioenergy in the state program of biotechnology development in the Russian Federation until 2020 (The «BIO-2020»);
- **Chernin S.Ya.**, President, Group of Companies «GasEnergoStroy» Inc.: «Prospects for the Russian bioenergy»;
- **Drake Frank-Detlef**, RWE: «Energy from biomass: RWE strategy»;
- **Shurr Ulrich**, Centre for Bioeconomy, Julich, Germany: «Bioenergy in the integrated bioeconomic concepts».

Q&A with conference participants - 30 min

12:30- 13:45 **Lunch**

13:45-15:30 **Session 3: Global and regional market and policy perspectives for Bioenergy**

Chair: Kiss R.Yu., General Director, «Alternative energy systems» (ENARGO™)

Presentations:

- **Popov V.O.**, Director of the A.N.Bach Institute of Biochemistry of RAS, Coordinator of

Technological Platform «Biotech-2030»;

- **Spitzer Josef**, IEA Bioenergy Implementing Agreement: «Prospects for the international Bioenergy market and scientific-technical cooperation».
- **Rakitova O.S.**, Co-chair of Russian Bioenergy Technology Platform

Panel participants:

- **Sutyaginskiy M.A.**, President, NP «Centre of innovations»;
- **Rakitova O.S.**, General Director, NP «National Bioenergy Union», Co-Chair of Russian Bioenergy Technology Platform;
- NP «Market Council»;
- **Walter Arnaldo**, Professor, University of Campinas-UNICAMP, Brazil;
- **Nordlander Mikael**, Vattenfall, Sweden ;
- **Reutov B.F.**, NRC «Kurchatov Institute»;
- **Chernin S.Ya.**, President, Group of Companies «GasEnergoStroy» Inc.

Q&A with conference participants - 30 min

15:30-16:00

Coffee break

16:00-17:30

Session 4: The use of biomass and wastes for bioenergy: international experience and applications in Russia

Chair: Anselm Eisentraut, Energy Analyst, International Energy Agency

Presentations:

- **N.T. Sorokin**, Ministry of Agriculture, Russia, “State of the art of bioenergy technologies for the use of waste in Russia”;
- **Brown Adam**, Senior analyst, International Energy Agency

Panel participants:

- **Orlova L.V.**, NP «National movement of conservation agriculture», Russia;
- **Geletukha Georgiy**, Scientific Engineering Centre «Biomass» Ltd., Ukraine, «The use of waste in Ukraine»;
- **Baryshnikova E.Yu.**, First Deputy General Director, NP «Centre of innovations»;
- **Cremer T.**, RWE
- **Kiss R.Yu.**, General Director, «Alternative energy systems» (ENARGO™)

Evening

Cocktail

Day 2

Wednesday, 6 June

9:30-11:30

Session 5: Barriers and opportunities for Bio-Energy project development in Russia (investment, policy, regional issues)

Chair: **Dudarev S. Yu.**, NRC «Kurchatov Institute»

Presentations:

- **Chernyshev Anton**, PhD, Program expert, IFC Russian Renewable Energy Programme: “Financing Bioenergy projects: investment opportunities and cost of bioenergy”
- **Golubev A.V.**, Vice-Rector for Science and Innovation, Russian State Agrarian University – MTAA named after K.A.Timiryazev: «The potential of higher education institutions in implementing the program on Bioenergy»

Panel participants:

- **Anselm Eisentraut**, Energy Analyst, International Energy Agency;
- **Sheibe D.I.**, General Director, VEB Engineering;
- **SKOLKOVO**’s Cluster of Energy Efficient Technologies;
- **Baskov V.N.**, Russian Energy Agency;
- **Gusev V.V.**, Deputy Governor of the Vladimir region, Director of the Department of Agriculture and Food;
- **Ryazantsev Ya.V.**, Director of Investment Department, **RVC**
- **Nalyvaychenko R.V.**, Head of Investment and Finance Department, «Rosagroleasing»

11:30-11:45

Coffee break

11:45-12:45

Session 6: Administration, follow-up activities and closing remarks

Chair: **Vassilov R.**, NRC «Kurchatov Institute»

1. Voting for the Heads of the Bioenergy Technology Platform;
2. Presentation by:
 - **Mikael Harms**, Chairman of the Board - Russian-German Chamber of Commerce
 - **Frank-Detlef Drake**, RWE
3. Presentation by IEA
 - **Ulrich Benterbusch**, Global Energy Dialogue, International Energy Agency
4. Signature of agreement for further collaboration between Russian Bioenergy Technology Platform, the IEA- Technology Platform, NP «Centre of innovations» (Co-chair of Russian Bioenergy Technology Platform)
5. **Adoption of a resolution of the conference**

12:45-13:00

Closing remarks by Raif Vassilov.

Annex 2: Workshop Summary

The International Energy Agency, under the auspices of the International Low-Carbon Energy Technology Platform (“Technology Platform”) in collaboration with the Kurchatov Institute and hosted by the Russian Ministry of Agriculture, held on 5-6 June 2012 the first International Conference on Bioenergy in Russia, in support of the Russian process for the development of a national bioenergy roadmap. The conference provided a forum in which over 100 international and Russian bioenergy experts could exchange best practices and experience in the field to support Russia in its vision to become a key player in the bioenergy sector.

This initiative followed on the priorities set by Vladimir Putin in April 2011 to create a series of national technology platforms focussed on modernisation and innovation of the Russian economy. The event also showcased the recently published IEA Technology Roadmap on Bioenergy for Heat and Power¹.

Russia has created a programme for bioenergy up to 2020 with the goal to become a global leader of bioenergy, including through the launch of an important R&D programme. 10% of Russian territory is used for agriculture and could therefore support the country’s efforts to develop a vital bioenergy sector. The programme sets ambitious goals for the so called “bioeconomy” to represent 1% of the Russian GDP by 2020 and 2% by 2030. The programme aims to address concerns over energy security in remote regions with the goal to diversify its energy supply aiming at a share of 4.5% renewables of primary energy supply by 2020.

The conference was organised to support Russia’s efforts to involve international partners in the ongoing strategy for bioenergy. The Russian Bioenergy Technology Platform has been created recently and has now all its members and governance structure appointed. Indeed, the role of the platform is to coordinate both nationally and regionally the work undertaken in favour of the development and deployment of bioenergy in Russia. By partnering with the IEA Technology Platform, Russia intends to learn from international experience and create new opportunities for collaboration.

Over two days, the conference successively explored the following items:

1. **Perspective for bioenergy in Russia and worldwide.** Today, most of the bioenergy consumed in Russia is in form of traditional biomass for district heating system and industry. Russia has large and diverse biomass resources and therefore plans to become a key player for biomass in the electricity sector at the international level. Actually bioenergy has lots of potential in all energy sectors: industry; transport; and building. To deploy bioenergy in a sustainable manner, the IEA strongly recommends developing long-term regulatory frameworks. Most bioenergy technologies are already in a mature state; therefore there is a great opportunity for Russia to benefit from international experience and best policy practices.
2. **Global and regional market and policy perspectives for bioenergy.** Russia plans to translate its programme for bioenergy into concrete ideas and work plans at the federal and regional level in order to properly allocate funding and develop roadmaps. Beyond sustainable development at the national level, Russia also plans to become a key player in the bioenergy market, partially by expanding export of wood pellets to European countries.
3. **The use of waste and residues for bioenergy: international experience and application in Russia.**
4. **Barriers and opportunities for bioenergy project development in Russia (investment, policy and regional issues).**

¹ Accessible for free at <http://www.iea.org/publications/freepublications/publication/name,27281,en.html>

Overall, the IEA strongly supports the Russian efforts to develop roadmaps at the national level and Russian priorities set by Vladimir Putin in April 2011 to create a series of national technology platforms focussed on modernisation and innovation of the Russian economy.

Next steps

The conference ended with the signature of an agreement for further collaboration between the IEA and the Russian Biotechnology Society, on behalf of the Russian Bioenergy Technology Platform, for the development of a How2Guide for Bioenergy, an initiative the IEA has launched in early 2012 with the goal to create a series of a technology specific methodology guides for the development of roadmaps at the national level. The first workshop for the development of the How2Guide will be held in Moscow, likely in Q1 2013.

Additional discussions are ongoing with representatives of the Russian Bioenergy Technology Platform to accelerate Russia's accession to the IEA Bioenergy Implementing Agreement.