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**FASI-IEA WORKSHOP PROGRAMME**  
**“ENERGY TECHNOLOGY ROADMAPS AS AN INSTRUMENT FOR DEVELOPING**  
**LONG-TERM FORESIGHTS AND S&T POLICY IN THE FIELD OF ENERGY**  
**TECHNOLOGIES”**

**Organized by Federal Agency for Science and Innovation of the Russian Federation (FASI)**

**International Energy Agency (IEA)**

22-23 June 2009  
 Moscow, Bryusov pereulok, 11

**22 June 2009 (1<sup>st</sup> day)**

9.30-10.00	Registration
10.00 – 11.00	<b>Session 1: Energy Technology Perspectives: Global trends and Russia’s priorities</b>  Moderator: Boris Reutov, Deputy Director, Department of Research and New Technologies, Federal Agency for Science and Innovation (Russia)
10.00-10.15	Welcome speech on behalf of the Federal Agency for Science and Innovation – Alexander Klimenko, Deputy Director, Federal Agency for Science and Innovation (Russia)
10.15.-10.35	The IEA’s Energy Technology Perspectives to 2050 – Neil Hirst, Director, Directorate of Global Energy Dialogue, International Energy Agency
10.35 – 10.55	Long-term foresight for S&T development and technology roadmaps for Power sector – Alexander Sokolov, Deputy Director, Institute of Statistical Studies and Economics of Knowledge, State University – High School of Economics (Moscow)
10.55 – 11.10	Experience of technology roadmapping for power sector – Anna Sokolova, Researcher, Institute of Statistical Studies and Economics of Knowledge, State University – High School of Economics (Moscow)
11.10 – 11.20	Questions and Answers. Discussion.
11.20 – 11.45	Coffee break
	<b>Сессия 2: Technology Roadmapping Methodology: Russian and International Experience</b>  Moderator: Sergey Philipov, Corresponding member of the Russian Academy of Sciences, Deputy Director, Institute of Energy Research (Moscow)
11.45 – 12.05	R&D Priority Setting & Evaluation and IEA’s Approach to Roadmaps, Steven Lee, Energy Analyst, Directorate of Sustainable Energy Policy and Technology, IEA and Rob Kool, SenterNovem (Netherlands) and Chair of the IEA R&D Expert Working Group

12.05 – 12.25	Discussion. Questions and Answers
12.25 – 12.45	<p>Methods of comparing emerging energy technologies while choosing the most promising technologies to be roadmapped</p> <p>– Dr. Alexander Keiko, Head of Division, Melentyev Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences (Irkutsk)  Dr. A Kler , Head of Division, Melentyev Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences (Irkutsk)  Sergey Philipov, corresponding member of the Russian Academy of Sciences, Deputy Director, Institute of Energy Research (Moscow)</p>
12.45 – 13.00	Technology roadmapping methodology – Oleg Karasev, Senior Researcher, Institute of Statistical Studies and Economics of Knowledge, State University – High School of Economics (Moscow)
13.00 – 13.20	Questions and Answers. Discussion.
13.20 – 14. 10	Lunch
14.10 – 17.00	<p><b>Сессия 3: Energy Technology Roadmaps for Key Technologies and Sectors: Russian and International Experience</b></p> <p>Moderator: Dr. Oleg Popel, Head of Laboratory, Joint Institute of High Temperatures (Moscow)</p>
14.10 – 14.30	Clean coal towards CCS Roadmaps, Dr. John Topper, Director IEA Clean Coal Center, International Energy Agency
14.30 – 14.50	Clean coal technologies for the Russian power sector – Gurgen Olkhovsky, Corresponding member of the Russian Academy of Sciences, General Director of the All-Russia Thermal Engineering Research Institute, Anatoly Tumanovsky, First Deputy, All-Russia Thermal Engineering Research Institute (Moscow)
14.50 – 15.10	Expansion of the fuel & power generation basis through development of promising combustion technologies: catalytic combustion technologies roadmaps - academician Valentin Parmon and Alexey Noskov, Borekov Institute of Catalysis, Siberian Branch of the Russian Academy of Sciences (Novosibirsk)
15.10 – 15.30	Institutional mechanisms supporting development of advanced energy technologies– Anna Belova, Deputy Director for Strategy and Corporate Development , SUEK
15.30 – 15.45	Questions and Answers. Discussion
15.45 – 16.00	Break
16.00 – 16.20	RES roadmapping: Emerging technologies and niches for use of renewable energy resources in Russia – Dr. Oleg Popel, Head of Laboratory, Joint Institute of High Temperatures (Moscow)

16.20 – 16.40	Draft Roadmap for Hydrogen Energy Technologies and Fuel Cells – Dr. , Professor Stanislav Malyshenko, Head of Laboratory, Head of Laboratory, Joint Institute of High Temperatures, Russian Academy of Sciences (Moscow)
16.40 – 17.00	Questions and Answers. Discussion. Summing up the outcomes of discussion.

**23 June 2009 (2<sup>nd</sup> day)**

9.30 – 10.00	Registration
10.00- 17.00	<b>Session 4: Improved Energy Efficiency of Buildings and Constructions”</b>
	<p>Moderators:  Alexander Naumov, General Director, JSC «NPO «TERMEK» (Moscow), Vice President «AVOK»  Jens Laustsen , Buildings Analyst, Directorate of Sustainable Energy Policy and Technology, International Energy Agency</p> <p>V.M. Sidorov, President, «Russian Instrument Making Corporation “Systems of Management» (Chelyabinsk)</p>
10.00 – 10.10	«Technological Platform”: Integrated solutions for energy efficiency and resource saving – Boris Reutov, Deputy Director, Department of Research and New Technologies, Federal Agency for Science and Innovation
10.10 – 10.30	Improved Energy Efficiency of Existing and New Buildings and Construction – Jens Laustsen, Buildings Analyst, Directorate of Sustainable Energy Policy and Technology, IEA
10.30 – 10.50	Energy Efficient Engineering Systems for Public and Residential Buildings – Alexander Naumov, General Director, JSC «NPO «TERMEK» (Moscow), Vice President «AVOK»
10.50 – 11.10	Energy and Environmental Efficiency: the main criteria to be met by modern buildings – Yuriy Matrosov, Head of Laboratory for energy saving and thermal insulation of buildings, Construction Physics Research Institute (Moscow).
11.10 – 11.30	Net Zero Energy (NZE) Homes – Kenneth Mentzer, President and CEO, North American Insulation Manufacturers Association (NAIMA), USA
11.30 – 11.45	Questions and Answers. Discussion.
11.45 – 12.00	Break
12.00 – 12.20	Improving energy efficiency of heat generation and transportation systems – Vyacheslav Ryzhenkov, Vice Principal, Moscow Power Engineering Institute (Technical University)

12.20 – 12.40	Distributed power technologies: power supply to separate consumers based on use of local energy resources – Dr.Victor Zaichenko, Head of Laboratory, Joint Institute of High Temperatures, Russian Academy of Sciences Yuriy Yavorskiy, Moscow Power Engineering Institute (Technical University)
12.40 – 13.00	The current state and prospects for advanced energy-saving lightning technologies in Russia– Anatoly Shevchenko, Head of Laboratory, Alexeev State Technical University (Nizhniy Novgorod)
13.00 – 13.20	Lightning equipment of new generation – efficient energy-saving technology – Grigory Itkinson, General Director, JSC «Svetlana-Optoelectronics» (St.Peterburg).
13.20 – 13.40	Energy efficiency indicators for residential and public buildings – Evgeniy Shilkrot, Head of Laboratory for Heating, Ventilation and Air Conditioning, JSC “TSNIIPromzdaniy” (Moscow) , AVOK Vice President
13.40 – 14.30	Lunch
14.30 – 15.00	Development and introduction of energy-efficient engineering systems in buildings and constructions as part of the innovative development of regional economies – Viktor Sidorov, President and CEO «Russian Instrument Making Corporation “Systems of Management» (Chelyabinsk)
15.00 – 15.20	Prospects for introduction of advanced billing systems for keeping record of individual heating and electricity consumption – Dmitry Rygalin, Deputy Director for Science and Innovation, JSC “Zelenograd Innovation & Technologies Center” (Zelenograd)
15.20 – 15.40	Questions and Answers. Discussion.
15.40 – 16.00	Wrap-up session