



Roadmap methodology training in Russia

4 June 2012

World Trade Center, Angara Conference Hall
Moscow, Russia

On 4th June 2012, the IEA organised a training and capacity building workshop on roadmap methodology under the auspices of the Low-Carbon Energy Technology Platform (Technology Platform) in collaboration with Inter RAO United Energy Systems of Russia.

Attended by approximately 30 Russian energy technology experts and two representatives of the Russian Renewable Energy Programme of the International Finance Corporation (IFC), the workshop objective was for the IEA to provide training to Russian experts of the national Technology Platforms (including bioenergy, environmentally clean power generation of high efficiency, smart grids and distributed power generation) on how to develop energy technology roadmaps. Based on Russia's stated technology priorities, the training specifically focused on how to develop roadmaps for high efficiency thermal power and bioenergy.

Experts from the IEA included Cecilia Tam, programme manager for the IEA roadmaps, Anselm Eisentraut, co-author of the newly launched IEA roadmap for Bioenergy in Heat and Power and Ellina Levina, carbon capture and storage expert at IEA, and contributor to the IEA clean coal roadmap, currently under development.

The training was organised as follows:

1. **Introduction to IEA methodology for roadmaps**, Cecilia Tam presented the methodology used by IEA to develop international roadmaps (see presentation) as well as IEA experience in collaborating with countries on the development of national roadmaps. The IEA recently published in collaboration with China a national wind roadmap, and is currently working with the Indian cement sector to develop an Indian cement sector roadmap.
2. **Presentation and discussion of the work that is being done by the Russian platforms for bioenergy and high efficiency thermal power**. Mr Reutov, Bioenergy Technology Platform coordinator presented the platform's objectives for bioenergy and project to develop a roadmap. Mr Rogalev, Director of the Efficient Thermal Power Technology Platform, presented an early excerpt of the roadmap that is currently being undertaken by the platform members. IEA experts provided some guidance to the two platform leaders as to how to improve their methodology and gave initial feedback on the draft.
3. **Practical exercises on scoping a roadmap and developing a timeline for major milestones**. The group split into two smaller groups, each focusing on one technology and providing a simulation of the work which would need to be done for the development of a roadmap. The group focusing on bioenergy, worked on scoping a roadmap, e.g. how to define the

roadmap objectives and targets; how to determine the right timeframe and what stakeholders to involve for both a roadmap that would focus on biofuels and bioenergy for heat and power. The group focusing on efficient thermal power, focused on a later stage of the roadmap analysis that consist of determining the major milestones for the roadmap to cover in the timeframe chosen (accepting Russian technology platforms have already commenced work in this regard). In this instance, the group discussed the key milestones Russia needed to implement until 2050 as regards to R&D and the development of regulatory frameworks. At the end of the exercise, the groups reunited and presented the results in plenary.

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

The IEA considers it is imperative for Russian platforms to continue involving further the Government in their work, in order to create strong links between the supervisory committees and the experts groups in charge of developing the roadmaps so effective decisions can be taken. The IEA also suggested enhancing links and coordination between all the platforms, so the roadmaps can be developed and implemented as efficiently as possible.

Next steps

On 6 June, in the framework of an International Conference on Bioenergy in Russia, co-organised by the IEA Technology Platform and the Kurchatov Institute (coordinator of the Bioenergy platform), the IEA has signed with its Russian partners an agreement for further collaboration on 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.

Additional discussions are ongoing with Inter RAO UES for further collaboration with the Russian platform for efficient thermal power.