

CONFERENCE PROTOCOL

Application of the GAINS model
within the state air quality management system
in the Russian Federation:
opportunities and growing capacity

within the Swedish-Russian bilateral cooperation project
“Strengthening cooperation within the Convention
on Long Range Transboundary Air Pollution – CLRTAP”

30th November 2010

10.00-16.30

Ministry of Natural Resources and Environment of the Russian Federation

On 30th November 2010 in the Ministry of Natural Resources of Russia within the bilateral project of Russia and Sweden “Strengthening cooperation within the Convention on Long-range Transboundary Air Pollution – LRTAP” a conference was held directed to reviewing the existing experience of application of the model of comprehensive impact assessment of transboundary air pollution on the environment and human health GAINS (Greenhouse gas and Air Pollution Interactions and Synergies), the intermediate results of its application on the example of the groups of regions of the Russian Federation and the prospects of its application at state level in the Russian Federation within the UNECE Convention on Long-range Transboundary Air Pollution.

Participants of the conference:

International:

Lars Ekekrantz, Swedish Ministry of the Environment

Åke Mikaelsson, Swedish Environmental Protection Agency

Stefan Åström, IVL Swedish Environmental Research Institute

Karin Kindbom, IVL Swedish Environmental Research Institute

Katarina Yaramenka, IVL Swedish Environmental Research Institute

Janusz Cofala, International Institute for Applied Systems Analysis, Austria

Russian:

Ksenia Sverkunova, Ministry of Natural Resources and Environment of the Russian Federation

Natalya Karpova - Ministry of Natural Resources and Environment of the Russian Federation

Lyudmila Plyushch - The Federal Supervisory Natural Resources Management Service

Elena Pronina – The Federal Supervisory Natural Resources Management Service

Sergey Sysoev – Ministry of Energetics of Russia

Olga Shelkina – Ministry for Economic Development of Russia

Marina Klevakina – Federal State Statistics Service

Irina Novikova – Federal State Statistics Service

Andrey Nedre, SRI Atmosphere

Alexander Romanov, SRI Atmosphere

Irina Morozova, SRI Atmosphere

Yulia Ignatieva, SRI Atmosphere

Evgeny Gorshkov, SRI Atmosphere

Yuriy Nedre, SRI Atmosphere

At the meeting the information was presented considering the current state of work being carried out by the Ministry of Natural Resources and Environment of the Russian Federation on air quality management at the federal level in the Russian Federation (Ms. Ksenia Sverkunova, Deputy Director of the Department of Public Policy and Regulation in the sphere of negative impacts valuation and environmental monitoring of the Ministry of Natural Resources and Environment of the Russian Federation) and a summary of approaches to air quality management in some regions of the Russian Federation (Mr. Yuriy Nedre, Team leader, SRI Atmosphere).

The representative of the Swedish Ministry of the Environment noted the need to strengthen regional cooperation on transboundary air pollution abatement within the UNECE Convention on Long-range Transboundary Air Pollution (LRTAP) (Mr. Lars Ekekrantz, Deputy Director-General, Ministry of the Environment, Sweden).

The representatives of the Swedish Environmental Research Institute presented on approaches to the air emission inventory work in Sweden, on data selection qualitative and quantitative criteria serving as a basis for creating a comprehensive emissions inventory at the state level (Ms. Karin Kindbom, project manager) and on application of air quality strategies of Western Europe for modeling of the transboundary air pollution impact on the Russian Federation with the GAINS model (Mr. Stefan Åström, project manager).

The representative of International Institute for Applied Systems Analysis (IIASA) submitted a report on application options for pollution abatement strategies cost assessment and analysis of related effects on human health (Mr. Janusz Cofala, Senior Researcher of IIASA).

The representatives of Scientific Research Institute for Atmospheric Air Protection (SRI Atmosphere, JSC), technical coordinator and project performer provided an

overview of information on methodology and intermediate results of the GAINS model application in the Russian Federation on the example of two groups of regions: Murmansk Region and the Republic of Karelia, St.Petersburg, Leningrad, Pskov and Novgorod regions (Mrs. Irina Morozova, Head of Department) and the Draft of the Guidance document on application of the GAINS model in the state environmental management system of the Russian Federation which describes the practical issues of the model implementation and application, contains recommendations for organizing works on implementation of the model as of the support tool for formulation and implementation of air protection state policy in the Russian Federation and for negotiating within the LRTAP Convention (Ms. Yulia Ignatieva, researcher).

In conclusion the proposals were presented on further project development and prospective application of the GAINS model in the Russian Federation (Mr. Andrey Nedre, Director General, SRI Atmosphere) and was expressed support for the project on behalf of the Ministry of Natural Resources and Environment of the Russian Federation (Ms. Ksenia Sverkunova)

GENERAL RESULTS

The intermediate project results demonstrate the overall success of the joint project on the GAINS model application in Russia and the possibility of prospective use of modelling results for national environmental problem solving as well as on negotiating within the LRTAP Convention.

The representatives of interested federal executive bodies were informed of the project works realization, of the possibilities of using the GAINS model for solving a wide range of problems of the impact assessment of transboundary air pollution in the Russian Federation, of the air pollution forecasting and control, and of the requirements for input data necessary for the effective model operation.

Due to the differences between the current approach to the statistical treatment of the state socio-economic parameters in the Russian Federation and the requirements for statistical information in the GAINS model the difficulties were identified concerning the availability and completeness of existing data.

THE PARTICIPANTS OF THE CONFERENCE RESOLVED TO RECOMMEND:



1. Ministry of Natural Resources and Environment of the Russian Federation and other interested bodies to consider the developed Guidance document on application of the GAINS model in the state environmental management system of the Russian Federation.
2. Develop and agree with the Ministry for Economic Development of the Russian Federation, Ministry of Natural Resources and Environment, Ministry of Industry and Trade, Ministry of Energetics of Russia, Ministry

of Transport, Ministry of Agriculture, Ministry of Regional Development, Federal State Statistics Service, Federal Supervisory Natural Resources Management Service the order of forming the necessary input information for the GAINS model with the list of government statistical data and other data on the processes and activities as well as information about the mechanisms for its provision.

3. Develop proposals for cooperation with the International Institute for Applied Systems Analysis (IIASA) and the Meteorological Synthesizing Centre - West on further development of the module GAINS-Russia, including the separation in the model of the Russian Federation territory on a regional basis (primarily the European part of Russia) and the calculations of the interference 'region-to-region'.
4. Establish a Working Group on the GAINS model development and operation under the Ministry of Natural Resources and Environment of the Russian Federation.
5. Realize a pilot testing of the GAINS model in the European part of the Russian Federation within the LRTAP Convention activities in 2011.
6. Consider holding in 2011 an exit session for the GAINS model familiarization for the representatives of the Ministry of Natural Resources and Environment of the Russian Federation and other interested state bodies in the International Institute for Applied Systems Analysis, Laxenburg, Austria.

**Ministry of Natural Resources and Environment
of the Russian Federation**

Swedish Ministry of the Environment


Igor Zotov

Lars Ekekrantz