

## STATUS REPORT

### **Reduction/Elimination of Emissions of Dioxins and Furans in the Russian Federation with focus on the Arctic and northern regions impacting the Arctic September, 2009.**

#### ***ACAP Project title:***

Reduction/Elimination of Emissions of Dioxins and Furans in the Russian Federation with focus on the Arctic and northern regions impacting the Arctic

#### ***Lead Country: Sweden***

Steering Group Chairman: Niklas Johansson Swedish EPA

Project leader/secretary: Malin Gunnarsson, Swedish EPA

The Steering Group consists of representatives from Norway (donor), Russia, Sweden (donor), and USA (donor). Denmark and UNEP Chemicals took part in the initial meetings. Three Russian Ministries: Ministry of Natural Resources, Ministry of Science, Industry and Technology and Ministry of Health participate in the project.

#### ***Project initiation and support:***

The first Steering Group meeting was held on 11 – 12 March 2002 in Moscow.

In Russia, the project has during phase I and II been coordinated by Centre for International Projects. The Centre for Cleaner Production and Sustainable Development has had a certain role in coordinating projects on Cleaner Production in collaboration with TEKNA (Norway).

#### ***Project description***

The Project consists of three phases, whereof the first was completed in August 2005. Phase two is finalised and a draft final report was delivered in March 2008. The Steering Group had a number of comments and proposals to the draft report and in order to finalise the report, an editing meeting was organised in Stockholm in July 2008. The report was adopted by the SG in September 2008 and then sent to the ACAP secretariat for publication on ACAP website. The report was however not posted until August 2009.

#### **Phase I**

In the first phase the UNEP Toolkit was translated into Russian, a dioxin/furan fact sheet was produced and data collected. A workshop arranged by Swedish specialists on sampling and analysis of flue gases was performed in Stockholm. Scientists from four Russian laboratories attended the workshop. In Russia, emission inventories were carried based on UNEP Toolkit estimations at the 61 sites investigated (21 in Arkhangelsk, 19 in Komi and 21 in Murmansk) but also on 11 chemical analyses of flue-gas samples at 4 sites. Based on this dioxin emission inventory a priority list of sources was produced.

#### **Phase II**

During the second phase, the results of the PCDD/F release inventory is consolidated in view of the results from the sampling and analysis project. The project is also exploring different possible options for implementation of BAT and BEP requirements, *e.g.*, legislation prescribing technical measures for reduction of dioxin emissions, setting limit values, voluntary commitments by industry, *etc.*

One important part of the phase II report was to give concrete recommendations for actions based on findings on how technical processes but also matters concerning information, education and

organisation at individual enterprises could be improved in order to decrease the release of environmental pollutants as POPs. The revised phase two report has been approved by the SG.

*The initially selected facilities were:*

- Kotlas Pulp & Paper facility, Koryazhma (Arkhangelsk oblast)
- Vorkutinskiy cement plant (Komi republic)
- Syktyvkar Timber Mill (Komi republic) (Cleaner Production program only)

The focus is on the three priority regions, Murmansk, Arkhangelsk and Komi. As to the selection of objects, the inventory is focussing important sources, with respect to their magnitude, but also sources that could be representative for other sites and processes present in the area or elsewhere.

At the SG meeting in January 2007 it was decided to add the Murmansk Incineration Plant (used for Municipal Solid Waste, MSW) to the plan. The activities start with a general pre-feasibility study of the technical and institutional prerequisites for financial support. The Swedish EPA have allocated funds for this and will include it in the project. Terms of reference has been agreed upon and a contract has been signed and funding has been transferred.

A proposal has also been discussed to set up a pilot project, a creation of an integrated waste management system in the city of Severodvinsk, Archangelsk, including a Cleaner Production programme. As a start up an expert meeting would be held in Severodvinsk, to review draft concepts for the city to transit to an environmentally cleaner level. Proposed participants from ACAP, BEAC/WGE, US EPA, NEFCO, Archangelsk regional administration, Severodvinsk Administration, Rostekhnadzor, Federal agency on construction and housing and communal service.

Sweden did in early 2008 appoint one expert for this task and we are still awaiting further information from Russia on this as a possible phase II extension. The possible participation by the dioxin project in these activities will not be decided until more information on the project will be presented by the proposer(s).

### ***Phase III***

The final phase 2 report has been distributed to NEFCO for comments and possible Phase 3 initiatives. Based on this, NEFCO has contacted a consultant in order to further investigate further activities at Vorkutinskiy cement plant (Komi republic). According to unconfirmed information a Cleaner Production training programme has been performed at Vorkutinskiy cement plant. This exercise did however not specifically focus on the reduction formation and emission of dioxins.

The SG therefore continues to identify suitable projects for phase III. The SG welcomes suggestions from the WG and other bodies on this issue.

### **Budget related issues**

#### ***Funding***

No further funding has occurred since the previous status report was presented.