

Reduction/Elimination of Emissions of Dioxins and Furans in the Russian Federation

an Arctic Council's Arctic Contaminants Action Program (ACAP)

Gunnarsson M and Johansson N, Swedish EPA, Rezepov V, Centre for International Projects, Russia

Overall objectives

- Achieve reductions in the formation and emission of dioxins and furans in the Arctic and in areas affecting the Arctic.
- Support Russian authorities and enterprises to reduce the emission of POPs from other parts of Russia to the Arctic.
- Facilitate the development of dioxin and furan inventories in Russia.
- Gain new information on sources of dioxins and furans and the magnitude of their releases.
- Identify recommendations on adequate measures and techniques.



The project has focussed on the Arkhangelsk and Murmansk Oblasts and the Komi Republic.

Phase I – Finalised

- Translation of UNEP Chemicals' Standardized Toolkit into Russian.
- Production and distribution of a dioxins/furans Fact Sheet.
- Analytical hands-on training programme for sampling and analysis of flue gas.
- Inventories of emissions to air based on UNEP Toolkit estimations at the investigated facilities.

Phase II – Ongoing

A feasibility study of measures:

- Analysis of dioxins in gas, liquid and solid wastes.
- Implementation of training programmes for operation personal at individual industries.
- Development of recommendations of measures.

Selected facilities from Phase I for further work

- Kotlas Pulp & Paper facility, Koryazhma
- Vorkutinskiy cement plant
- Syktyvkar Timber Mill

Murmansk Incineration Plant (MSW) was added to the project in January 2007.

Phase III – Start late 2007

Implementation of demonstration projects. Funding of environmentally sound investments at individual enterprises will be discussed with national and international financial institutions.

Results and Discussion

The awareness of environmental and health problems caused by dioxins and furans is growing in Russia. The national analytical capacity has increased considerably, but there is still more needed. The project has also shown the importance of an early involvement of authorities, enterprise representatives as well as other local stakeholders.

Donor countries: Sweden (SWE EPA), USA (US EPA) and Norway (SFT).

Participants in Russia: The Centre for International Projects, CIP, (attached to the Ministry of Natural Resources) coordinating role for Russian activities, the Ministry of Industry and Energy, the Ministry of Health and the Federal Environmental, Industrial and Nuclear Supervision Service (Rostekhnadzor). In addition also the Research Engineering Centre "Syntez", Cleaner Production and Sustainable Development Centre in cooperation with TEKNA (the Norwegian Society of Chartered Technical and Scientific Professionals) and Russian Research Centre of Emergencies of the Ministry of Social Development of the Russian Federation are partners in the project.

