

Canada's report under Article 9, paragraph 3 of the Montreal Protocol

May 2009

Canada has the pleasure of submitting the requested information on compliance with Article 9, paragraph 3 of the Montreal Protocol, dealing with research, development, raising of public awareness and information exchange.

Ozone-friendly alternatives or alternatives technologies

- A Methyl Bromide Alternatives Project Working Group for the Canadian Food Inspection Agency (CFIA-ACIA) Grains and Oilseeds Section has been established. It involves three organizations under the Canadian federal agriculture portfolio, Canadian Food Inspection Agency, Agriculture and Agri-Food Canada and the Canadian Grain Commission. The goal of the working group is to develop, identify and evaluate alternatives to methyl bromide for use in the control of pests in stored crop commodities and spaces.
- The Canadian Pasta Manufacturing Association has conducted research project on alternatives to methyl bromide, including sulfuryl fluoride and heat treatment, in structural applications. This work was done in collaboration with the Department of Agriculture and Agri-Food Canada. A final report on the trials, including the efficacy data, was submitted to the Ozone Secretariat and the Methyl Bromide Technical Options Committee for their information in April 2009.
- Canada submitted to the Ozone Secretariat and Methyl Bromide Technical Options Committee the Canadian National Millers Association research study on alternatives to methyl bromide in flour mills. The Canadian National Millers Association continues to trial heat, sulfuryl fluoride, and heat, CO₂ and phosphine in combination as alternatives to methyl bromide.
- The government of Canada has initiated research and development in refrigeration applications to develop, demonstrate, and disseminate new practices and technologies that are designed to enable supermarkets, arenas and curling rinks to reduce their energy consumption and associated greenhouse gas (GHG) emissions, as well as their use of synthetic refrigerants. The technologies will be implemented at the 2010 Vancouver Winter Olympics.

Promotion of Public Awareness of the environmental effects of emission of ODS and other awareness raising activities

- Canada hosted the 20th Anniversary Meeting of the Parties to the *Montreal Protocol on Substances that Deplete the Ozone Layer* in Montreal in September 2007. In conjunction with this historical meeting, the government of Canada hosted events for the public on September 16, 2008 - International Ozone Day. These events included a speaker series and information session on the Montreal Protocol, Ozone Layer and

related environmental issues as well as featured science and technology exhibits highlighting work since the signing of the Montreal Protocol.

- Environment Canada is currently in the process of reconstructing and updating its Stratospheric Ozone Web Site in order to provide more accurate and up-to-date information on the Montreal Protocol as well as its own domestic program aimed at phasing out ozone-depleting substances. The Stratospheric Ozone Web Site will be available to the public in both French and English.
- Compliance promotion material is continuously prepared and updated by the federal government as well as the provinces and territories in order to promote compliance with the regulations aimed at controlling ozone-depleting substances. These documents are made publicly available through Environment Canada's Stratospheric Ozone Web Site.
- Environment Canada published summer UV index forecast on its web Site. These data give an indication of the expected change in the average summer UV Index across Canada. For the summer of 2009, the forecast will read:
 - Environment Canada scientists predict that ultraviolet (UV) radiation levels across Canada will be about 3% higher this summer than pre-1980 levels, due to the continued thinning of the ozone layer.

The 2009 data is available at:

http://www.msc.ec.gc.ca/topics/uv/summer_forecast_2009_e.html

- Environment Canada also maintains the Children's UV Index sun protection web Site as part of its partnership with Health Canada. It was last updated in September 2007. The web Site is located at: http://www.msc.ec.gc.ca/education/uvindex/index_e.html.
- Through its bilateral projects with Article 5 countries to facilitate their compliance with the Montreal Protocol, Environment Canada also supports public awareness activities in these countries. Notably, under Cuba's National Phase-out Plan project, Environment Canada has assisted Cuba in conducting annual workshops with the media to raise awareness about the issue of ozone depletion and promote the country's ODS program, updating its national ozone web page, and issuing certificates of national recognition to organizations that have contributed to the protection of the ozone layer. Under Bolivia's Terminal Phase-out Plan project, Environment Canada has supported Bolivia in preparing a communication strategy to raise awareness on issues related to the elimination of CFCs, preparing and diffusing several mass communication tools such as television and radio products, and updating the National Ozone Unit's web page.

Promoting Research and Development of alternatives to ODS

- The OPTER program in the province of Quebec:
<http://www.aee.gouv.qc.ca/en/business-clientele/commerce/financial-assistance-programs-for-businesses/support-for-the-manufacturing-sector/> (its goal is to assist the supermarket industry in Quebec with reducing their GHG emissions, however it involves incentives to optimize/changeover refrigeration systems in supermarkets to more ecological alternatives, including non-synthetic refrigerants).