



**UNEP DTIE OzonAction**

# **Phasing out HCFCs:**

*What you can do to help developing countries to go beyond only 'compliance'*

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# Outline

- Activities of UNEP Division of Technology, Industry and Economics (DTIE) OzonAction Branch
- Two projects:
  - HCFC help centre
  - “Jump start”
- Opportunity to share technology and policy information



# The Montreal Protocol



- A total of now 195 governments are party to this multilateral environmental agreement .
- Specific, time-targeted actions to reduce and eliminate the production and consumption of ozone depleting substances.
- The OzonAction Branch of UNEP DTIE assists developing countries and countries with economies in transition (CEITs) to enable them to achieve and sustain compliance with the Protocol.
- Multilateral Fund for implementation of the Montreal Protocol provides the resources



## Three primary areas of work:



- Assisting developing countries in UNEP's capacity as an Implementing Agency of the Multilateral Fund for the Implementation of the Montreal Protocol, through the Compliance Assistance Programme (CAP).
- Assisting CEITs in UNEP's capacity as an Implementing Agency of the Global Environment Facility.
- Developing specific partnerships with bilateral agencies and Governments etc. These have provided support to UNEP over and above their contribution to the Montreal Protocol's Multilateral Fund to undertake specific projects.



# Compliance Assistance Programme (CAP)



- Under the CAP, the majority of the staff is located in UNEP's Regional Offices, where they closely interact with countries on a day to day basis to support and sustain compliance.
- This regional delivery mechanism is a distinct feature of the OzonAction Programme.
  - South-South cooperation: Regional Networks of Ozone Officers
  - Capacity building activities
  - Information Clearing house
  - Technology support



## The HCFC phase out (Agreed in 2007)

Developing countries (production and consumption):

- Freeze at 2009-2010 level by 2013
- Phase-out 10% by 2015
- 35 percent by 2020
- 67.5 percent by 2025
- 100 percent by 2030
- with 2.5 percent allowed, if necessary, for servicing existing equipment until 2040.

Developed countries must completely eliminate HCFC production and consumption by 2020



# An unprecedented opportunity to adopt ozone and climate friendly technologies and policies?

The Parties to the Montreal Protocol directed the Multilateral Fund, when providing this assistance:

- Focus on, *inter alia*, substitutes and alternatives that minimise other impacts on the environment, including on the climate, taking into account global warming potential, energy use and other relevant factors.
- The dual gains for the ozone layer and climate system will be realised only if countries choose the technology options which enable this and may not be the ‘business as usual’ option and which may require additional consideration by those making the decision



# UNEP DTIE OzonAction's **HCFC Help Centre**

*An information resource  
supporting the preparation of  
HCFC Phase out Management Plans*



# Overview

- Web-based information resource launched November 2007 by UNEP OzonAction in cooperation with Swedish EPA
- Objective
  - Help National Ozone Units & HCFC-using enterprises in Article 5 countries make informed & timely decisions about technologies & policies required to comply with accelerated phase out HCFCs as per MOP Decision XIX/6
  - Support preparation of HCFC Phase out Management Plans (HPMPs)



## A global & balanced source

- Part of UNEP's mandate under Montreal Protocol to provide information & capacity building services
- Information sourced from range of stakeholders
  - TEAP/TOC assessment reports, Multilateral Fund & Ozone Secretariats, Implementing Agencies, Governments, Industry & NGOs
- Covers the range of commercially-available technology options
  - Natural refrigerants, not-in-kind options, fluorinated alternatives



# An information resource for...

- **Ozone Officers**
  - throughout the HPMP preparation process, particularly before visits of Implementing Agencies or international HPMP consultants, & before taking specific actions on policies & projects
- **International consultants**
  - throughout their HPMP-related work with Article 5 countries
- **National HPMP consultants**
  - throughout their HPMP-related work, particularly before they conduct field visits to industry & data collection
- **National HCFC stakeholders**
  - before & during the HCFC phase out activities of industry, government, & NGOs



# Screenshot – home page

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 **United Nations Environment Programme**  
Division of Technology, Industry and Economics  
**OzonAction Branch**

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**About the Branch**

**Regional Networks**

**Topics**

- Aerosols
- Capacity building
- Children & Ozzy Ozone
- Customs
- Data reporting
- Disposal & destruction
- Foams
- Halon management
- HCFC Help Centre
- Methyl bromide
- Ozone hole & science
- Policy & enforcement
- Refrigerant management
- Solvents

**Partnerships**

**Information resources**

**News**

**Events**

**HCFC Help Centre**

 This section provides information about the management and phase out of HCFCs.

**Contents**

- Introduction
- List of HCFCs controlled under the Montreal Protocol
- Applications where HCFCs are used
- Refrigerant blends containing HCFCs
- HCFC-related decisions of the Parties to the Montreal Protocol
- HCFC-related decisions of the Multilateral Fund Executive Committee
- Frequently Asked Questions
- Science
- Technology
- Policy
- Partnerships
- NGO perspectives and information resources
- General information & awareness
- Country data
- Surveys
- HCFC management strategies
- Customs and enforcement
- Workshops and events
- Publications about HCFCs in the OzonAction MultiMedia Collection
- HCFC news
- Disclaimer

**Countdown to Compliance**

**2013** 1387 days or 46 months to go  
**HCFC freeze**

**2015** 2117 days or 70 months to go  
**HCFC reduction to 90% of baseline**

**Contacts**

- ▶ UNEP Compliance Assistance Programme
- ▶ UNDP Montreal Protocol Unit
- ▶ UNIDO Montreal Protocol Unit
- ▶ World Bank Montreal Protocol Operations



# Contents include

- HCFCs controlled under the Montreal Protocol
- Applications where HCFCs are used
- HCFC-related decisions of the Parties and the Multilateral Fund Executive Committee
- **Climate benefits**
- Policy, Technology, Science
- Partnerships, NGO perspectives & information resources
- General information & awareness
- Country data, Surveys, HCFC management strategies
- Customs & enforcement
- Refrigerant blends containing HCFCs & Trade Names of products containing HCFCs
- Workshops & events
- Publications about HCFCs in the OzonAction Multimedia Collection
- HCFC news service
- Frequently Asked Questions



## We encourage you to:

- Use the site
- Inform others about the site
- Suggest new information to include (e.g. Technical and practical information, case studies, etc.)
- Please send your ideas to us

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[www.unep.fr/ozonaction/topics/hcfc.asp](http://www.unep.fr/ozonaction/topics/hcfc.asp)



# “Jump Start” Project



In addition to those project funded by the Montreal Protocol’s Multilateral Fund...

- Funded by the EC (DG Environment)
- The overall objective of the project is to contribute towards decreased direct and indirect releases or emissions of ozone depleting substances (HCFCs) and greenhouse gases (HCFCs and HFCs) both through promotion of zero ozone depletion potential (ODP) and low global warming potential (GWP) alternatives as well as promotion of best practices and better engineered and energy efficient technology.



## “Jump Start - Two components:

- Offers additional assistance to countries in providing policy and technology advice and information to expedite their compliance with the HCFC phase-out obligations and at the same time to adopt environmentally friendly alternatives, with a focus on climate benefits
- To reduce car emissions in China and India’s Mobile Air Conditioning (MAC) sector.



# HCFC component

- Catalyse early action for the adoption of non ozone depleting, low- or zero-GWP and energy efficient technologies and alternatives to HCFCs
- Create higher awareness within developing countries of alternatives and technologies available, notably natural refrigerants, and of ways and means to facilitate their take-up.
- Improve awareness of: funding available to support transition from HCFCs; management of HCFC banks; and actions to combat illegal trade in these chemicals.



# MAC component



- Facilitate awareness raising and provision of information on the availability of sustainable and environmentally friendly, non-ODS solutions for mobile air-conditioning systems (MACs)
- Focus on technologies that minimise GHG emissions and local pollution
- Focus on responsible servicing policies and enabling policies and measures
- Present environmental objectives of EC MAC policies



## The project will include:

- **Workshops** - a number of workshops for both the HCFC and MAC components
- **Surveys** - targeted national surveys
- **Case studies** - a compilation of case studies
- **Information materials** - of technical and non-technical information including factsheets and methodology-guidance documents.
- **A web forum** - to promote information exchange on alternatives to HCFCs.



# An Opportunity?

This project will present a number of opportunities for industry, government, NGOs and other stakeholders to outreach information on HCFC alternative technologies and replacement chemicals as well as on policy issues to more than 145 developing countries...

- HPMPs are being prepared **now!**



## We invite you to provide:

- Policy and technical case studies where non-ODP and low to zero GWP alternatives have been adopted
- Developed and developing country experiences
- Assistance in the identification of experts and proposed resource persons for consideration to participate at the projects workshops.
- Information/examples of barriers to adoption of technologies



Please send your ideas and suggestions to us:

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