



## Current work related to ozone-climate linkages

- HCFC Phase out Management Plans (HPMPs)
- Information, education, communication campaigns & products
- Capacity building products
- **EC HCFC & MAC Project**
- Swedish HCFC Help Centre
- SolarChill
- Refrigerants Naturally



# The Jumpstart HCFC phaseout and MAC project (2009-2010)

## Two objectives:

- 1. Accelerate HCFC phaseout in developing countries and maximise environmental benefits
  - Sectors: Refrigeration and Air Conditioning, insulating foams (blowing agents)
- 2. Reducing car emissions in the Mobile Air Conditioning sector



# 1. HCFC accelerated phaseout

- Developing countries are currently adopting strategies for future HCFC phaseout (HPMPs)
- Accelerated phaseout ahead of MP obligations will benefit:
  - The ozone layer
  - Climate, as HCFCs are GHGs
- Also offers an opportunity for:
  - Selecting climate-friendly HCFC replacement
  - Energy efficiency gains



# Outcomes



- Inform on latest technologies for HCFC replacement (env'tal impact, pluses and minuses)
- Ultimately encourage adoption of the most environmentally-beneficial technology



# Means / Activities

- The HCFC Help Centre
  - <http://www.unep.fr/ozonAction/topics/hcfc.asp>
  - References to Parties' decisions, obligations, case studies, national law examples, documentation
- Two Workshops (in 2010):
  - Workshop on insulating foams in Asia
  - Workshop on Refrigeration/AC in Latin Am.
- Case studies
- Survey of obstacles to low-GWP technologies



## 2. Reducing MAC emissions

- Sector with very rapid adoption of air conditioning
- Direct transition from CFCs (CFC12) to HFCs (HFC134a)
- Remaining fleet with CFCs
- All new cars : HFC134a
- On the verge of new technology revolution



## Specific objectives

- Present the various technological developments and potential environmental impacts
- Present strategic orientations of main actors
- Share with developing countries experience for ex. from the EC (legislation prompted technology evolution)
- Encourage best practices (servicing, containment, end of life,...)



# Deliverables

- Fact sheets on:
  - The global MAC legislative environment
  - How has the EU legislation been prepared and implemented
  - Servicing and Containment – examples and best practices
  - Alternatives to HFC134a: what is the industry proposing
- Two workshops in Spring 2010:  
India and China