HCFC Phase-out in Developing Countries

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#1 UNIDO & the MP

Achievements

- The Multilateral Fund (MLF) is financing the phase-out of Ozone Depleting Substances in developing (Article 5) countries;
- UNIDO is implementing agency of the MLF since 1992;
- To date UNIDO has implemented a portfolio of altogether:
  - USD 650 million in
  - Over 100 countries with more than
  - 1,400 investment and non-investment projects;

- Substantive amount of the World's ODSs consumption was eliminated

- The GEF is the financial mechanism for CEITs;

#2

HCFC Phase-out schedule

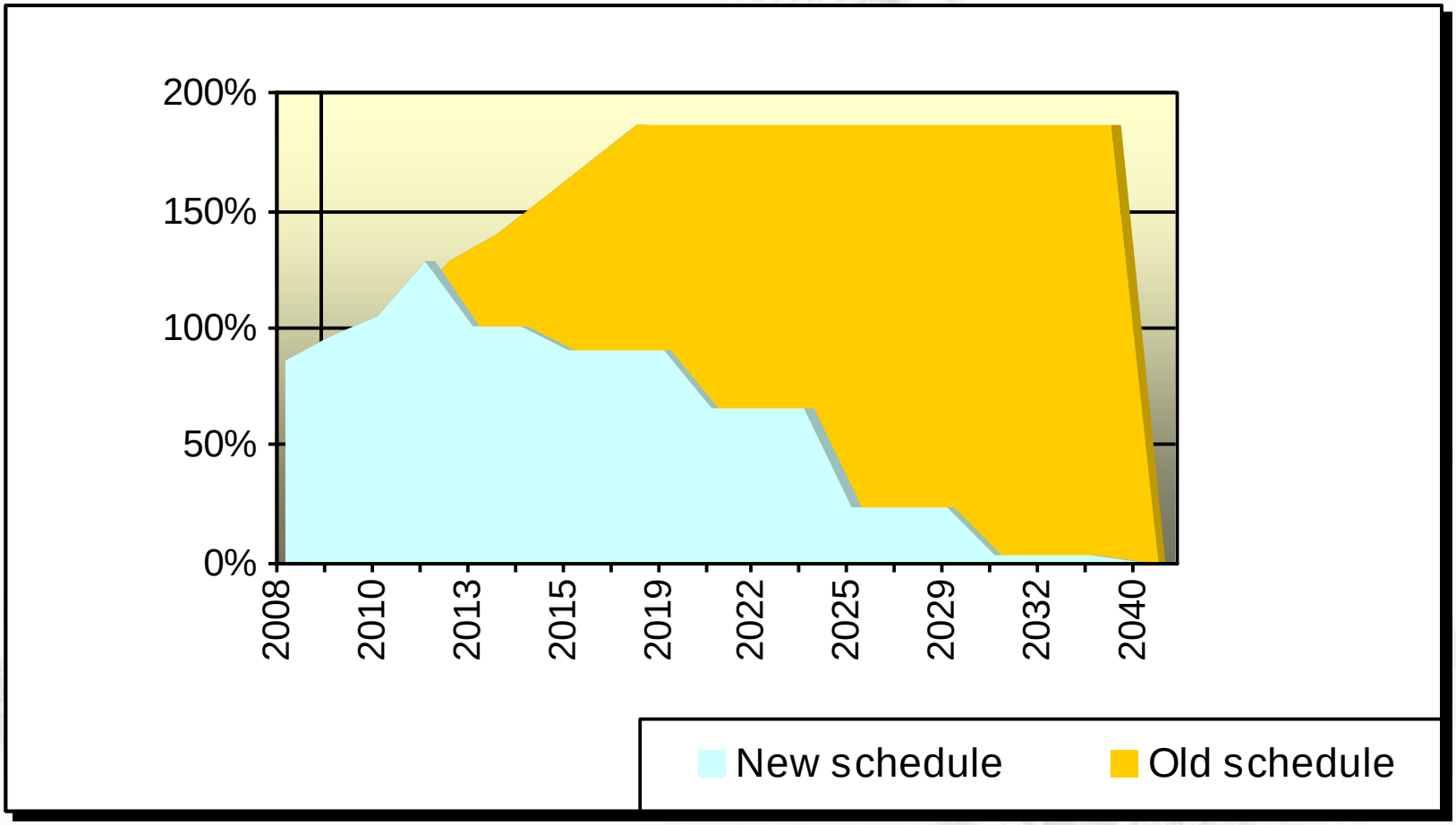
Decision XIX/6 - For Article 5 countries

HCFC Phase-out Schedule	Original	Actual
Baseline	2015	Average 2009-2010
Freeze	2016	2013
10% Reduction	-	2015
35% Reduction	-	2020
67.5% Reduction	-	2025
97.5% Reduction	-	2030
100% Reduction	2040	2040

#3

HCFC Phase-out schedule

Decision XIX/6 - For Article 5 countries



#4 Priorities for HCFC Phase-out

Multilateral Fund

- Priority given to substances with highest ODP (HCFC-141b)

- Priority in the manufacturing sector:
  1) Polyurethane foam sector (PU);
  2) Extruded polystyrene foam sector (XPS);
  3) Refrigeration and A/C manufacturing sector; and

- Projects should maximize the climate benefit; i.e. replacement technologies should utilize low-GWP alternatives where available/applicable;

- ExCom is approving conversion projects to HFC alternatives only if it is essential for reaching MP compliance targets. ExCom has been quite effective in “phasing-down” HFCs and only a very limited number of projects were approved for HFCs.

#5

Ongoing HCFC Phase-out

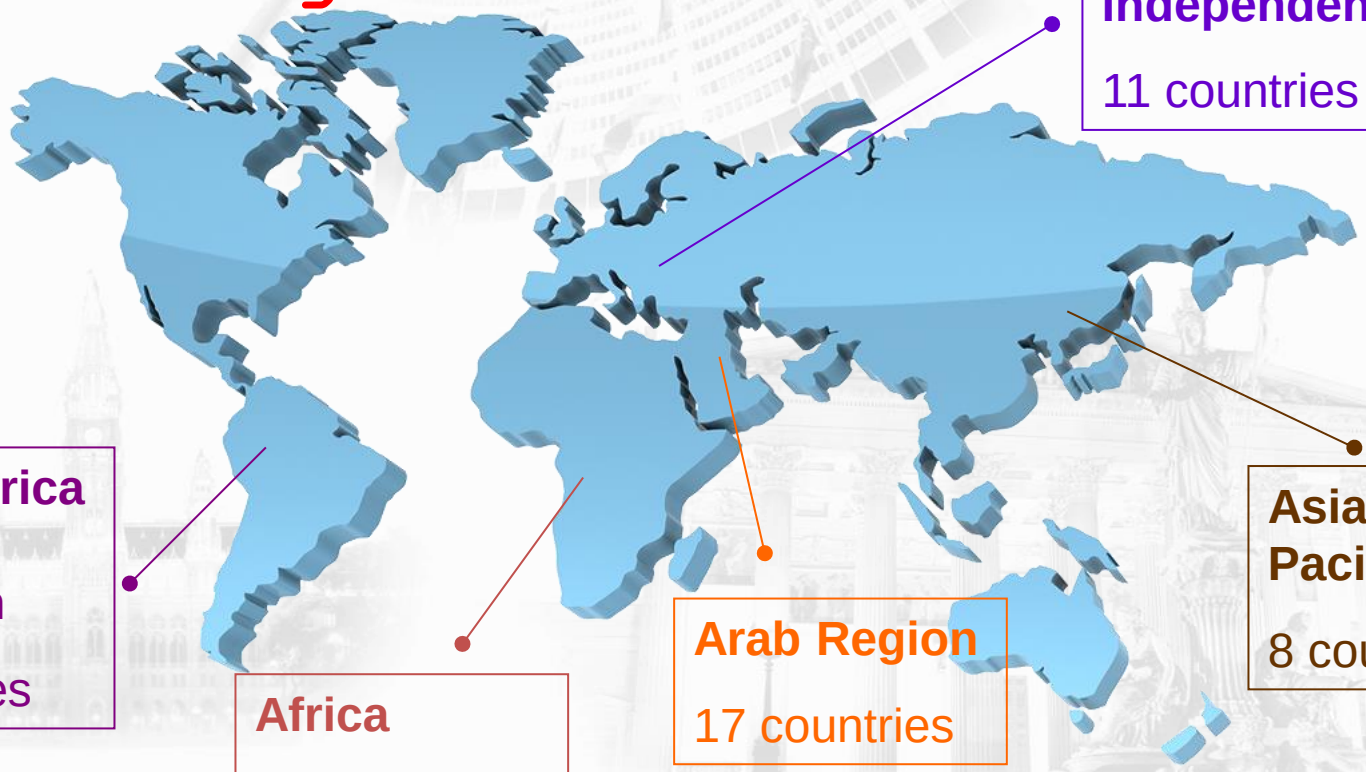
Multilateral Fund – A5 countries

- With the exception of 6 countries, all A5 countries have approved HPMPs that will help them reach at least 10% reduction by 2015.
- UNIDO is implementing HCFC Phase-out Management Plans in 67 countries to address the Freeze and 10% reduction of HCFC by 2013 and 2015 respectively
- Most manufacturing countries focus on HCFC-141b phase-out in the PU foam sector;
- Phase-out of HCFC-22 in the XPS and RAC manufacturing sector in a limited number of countries;
- UNIDO has currently ongoing projects in 76 countries

#6

UNIDO's current portfolio under the MLF incl. MeBr

Client Countries by Region



Europe and Newly Independent States

11 countries

Latin America and the Caribbean

14 countries

Africa

26 countries

Arab Region

17 countries

Asia and Pacific

8 countries

#7 Adoption of new technologies

- A number of projects adopting natural alternatives (R290 and R-717) in the refrigeration and A/C sector are ongoing;
- Refrigeration and air-conditioning technologies and their applicability in high ambient temperatures is currently a challenge;

Essential requirements for the adoption of new technologies

- Adoption of standards allowing alternatives (flammability, toxicity) on the market
- Availability of appropriate after sales services
- Availability of equipment kits based on new technologies
- Appropriate price of alternatives, associated components & products

- To avoid introduction of high level of HFC-based installed capacities, adoption of low-GWP alternatives in A5 countries must start ASAP to close the gap between now and the final phase-out date of HCFCs.

#8 Prospects and timing for Stage II HPMPs

- Most Stage II HPMPs will address 35% phase-out or more by 2020
- Not expected to start before 2015
- Focus:
  1. All remaining PU foam manufacturing sectors
  2. Manufacturing in the refrigeration and A/C sector
  3. Manufacturing in all other sectors (XPS, Aerosols, etc.)
  4. Refrigeration servicing

UNIDO is assisting developing countries in providing sustainable and safe solutions to HCFCs with high quality services.

UNIDO

ATMO UN sphere

technology summit

natural solutions

3 - 4 June 2013 in Vienna

Thank you very much for your attention