



Multilateral Fund
for the Implementation of the Montreal Protocol

**Technical Expert Meeting on non-CO₂
Greenhouses Emissions
UNFCCC**

**Multilateral Fund Secretariat
Bonn 22 October 2014**



Background

- Article 10 of the Montreal Protocol establishes a financial mechanism to provide assistance to developing countries to comply with the control measures set out in the Protocol.
- Over US \$3.05 billion has been disbursed to countries through bilateral/implementing agencies:
 - * Conversion of industrial processes using ODS in over 120 developing countries (i.e., new equipment/retrofit existing ones, technical assistance, training)
 - * Technology transfer through demonstration projects to optimize/further develop new technologies under prevailing circumstances in developing countries
 - * Training for customs authorities, service technicians; farmers in 145 countries
 - * Capacity building through establishment of ozone units within government's structure in 145 countries



Results

- Over 277.8 thousand of ODS (measured in ODP tonnes) in the consumption sector and 185.5 thousand in the production sector have been phased-out
- In 2011, all developing countries were in compliance with the 2010 control targets of the Montreal Protocol
- Phase-out of ODS has contributed to reduce the impact to the climate as many of the substances that have been phased in have much lower GWP values:
 - * e.g., for each kilogram of CFC-12 not emitted into the atmosphere results in savings of 10.8 and 1.8 CO₂-eq tonnes (if the replacement would be at zero GWP)



Challenges and trends

- Introduction of HFC-based equipment as replacement of HCFC-22-based equipment (with similar GWP).
- Limited amount of low-GWP technologies for replacing HCFC-22 in the RAC manufacturing sector
- Limitations on the introduction of several low-GWP refrigerants (flammable) due to the lack of standards, regulations, codes of good practice, certified technicians
- Trend: 96.7 million A/C equipment units manufactured in 2011: 54 million in developing countries. A/C demand in 2011 grew by 7.5% over 2010:
 - * Increase in population (7.0 billion in 2012 to 9.3 billion by 2050); rising global middle class (over one billion more by 2025); global trend toward urbanization