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Technology transfer and the implementation of the Montreal Protocol Experience of UNIDO

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Mandate

UNIDOTo assist developing countries to complywith environmental agreements obligations

Montreal Protocol To protect the ozone layer by eliminating the production and consumption of Ozone Depleting Substances (ODS)





UNIDO's successful technologies transfer

- 1. Hydrocarbon technology in the Refrigeration sector
- 2. Liquid CO₂ blowing technology in the Foams sector
- Grafting and soil-less media technology in the soil Fumigation sector (Methyl bromide)

These alternative technologies use substances with lower GWP than the Ozone Depleting Substances they replace



2006

UNIDO's leadership in technology transfer

- UNIDO has recognized first the trend towards hydrocarbon technologies as CFCs replacement
- 2. The first **cyclopentane** projects as **foam blowing agent** were approved in 1993 and 1994 for Egypt, Jordan and Iran
- 3. The first **hydrocarbon refrigeration** project (cyclopentane and R600a) was prepared for China in 1994
- The first grafting technology projects for replacement of methyl bromide in soil fumigation were approved in 2002 and 2003 for Honduras and Guatemala





UNIDO leads new sectors

- Metered-Dose Inhaler (MDI): approved Egypt 2006 and Mexico 2007, under preparation China, Iran, Jordan and Venezuela
- 2. Phase out of HCFCs in 28 countries
- **3.** Ozone Depleting Substances disposal



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INDUSTRIAL DEVELOPMENT ORGANIZATION

The Montreal Protocol

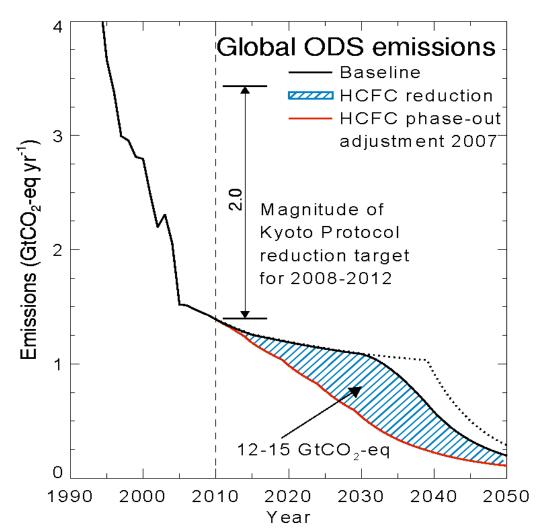
and its

impact on Climate Change



2006

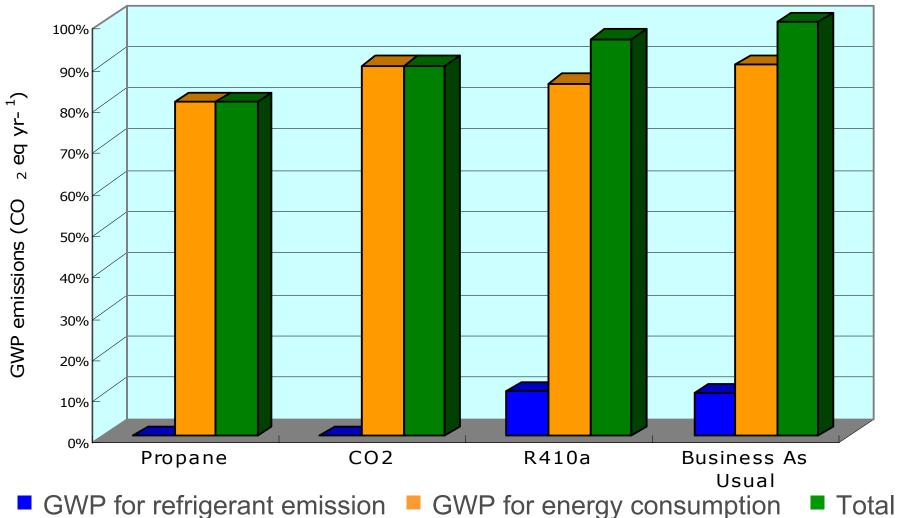
The climate benefits of the accelerated phase-out of HCFCs





2006

GWP comparative analysis for HCFCs alternatives in the room air conditioner sector











Challenges ahead

- Develop environmental friendly and sustainable technologies
- Cost and market constrains
- Promote and implement environmental friendly Policy

Opportunities

- Replace old technologies and equipment with mew ones
- Select environmental friendly and sustainable technologies
- Promote environmental friendly development Strategy
- Promote and enforce environmental friendly Policy



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We offer our assistance in meeting the challenges

Thank you!