

Indian Scenario for ODS Phase-out



India and Montreal Protocol



- Joined on 17 Sep. 1992
- Is an Article 5 country, alongwith 100 other countries

(less than 0.3 kg. per capita ODS consumption)

Phase-out Schedule as per Montreal Protocol

Ozone-depleting Developed Developing Substance Countries Countries

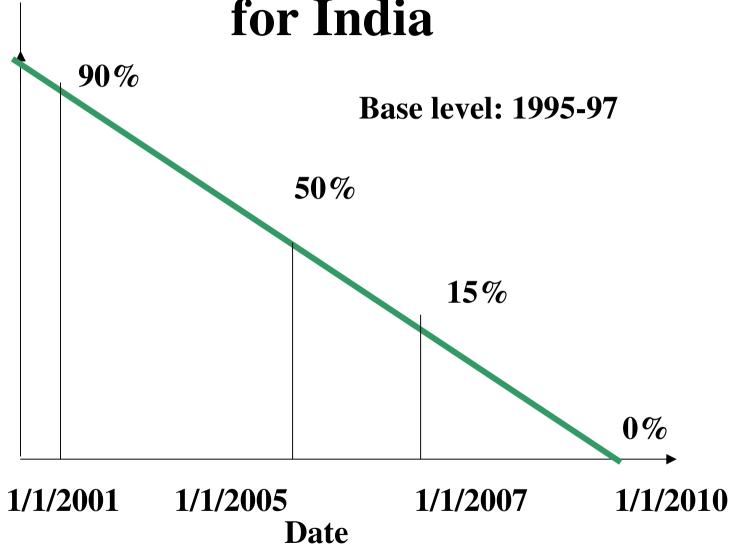
Total Phase-out by 1st January of the year

CFCs	1996	2010
Halons	1994	2010
HBFCs	1996	1996
CTC	1996	2010
Methyl Chloroform	1996	2015
Methyl Bromide	2005	2015
HCFCs	2030	2040



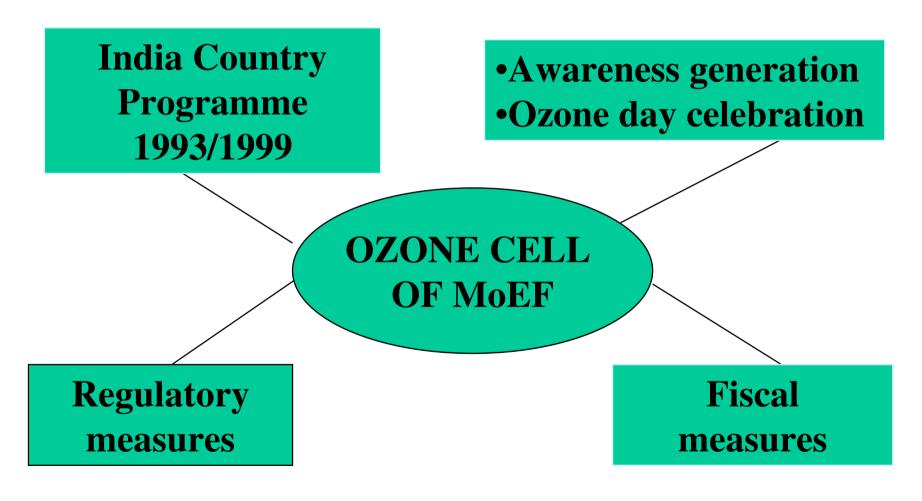
CFC Phase-out Schedule for India







India's Initiatives towards ODS Phase-Out





ODS (Regulation & Control) Rules, 2000

- Framed under Environment (Protection) Act, 1986
- Seeks to control production, consumption, export, import, sale and destruction of ODS
- Operational with effect from 19 July 2000



Key Features

- No manufacturing of CFC-based appliances after Jan. 1, 2003
- Compulsory registration of
 - ODS producers
 - Manufacturers of ODS based products
 - ODS Traders/ Dealers/ Wholesalers/ Sellers
 - Compressor manufacturers
 - Firms engaged in reclamation & destruction of ODS



Registering Authorities

ODS producers

(MOEF)

- Manufacturers of ODS-based products
 - Capital less than Rs. 1 crore

(SISIs)

• Capital more than Rs. 1 crore

(MoEF)

- ODS Traders/ Dealers/ Wholesalers/ Sellers(ODS Producer/ Importer)
- Compressor manufacturers

• Capital less than Rs. 1 crore)

(SISIs)

• Capital more than Rs. 1 crore

(MoEF)

Firms engaged in reclamation & destruction of ODS

(SISIs)



Dealer Documentation

- Forms for registration as per prescribed Performa
- Dated records & relevant records in respect of actual quantity of each ODS
 - purchased
 - sold within India
 (with details of name & address of recipient of each shipment and purpose for which ODS was purchased by the recipient)
- Report on sale of ODS to be submitted in prescribed Performa



Key Features (Contd.)

- Creation or expansion of capacity for manufacturing ODS and ODS based equipment prohibited
- Trade in ODS with non-Parties banned
- Licensing required for import/ export of ODS and products containing ODS
- Import & export of appliances only with labels
- Compulsory to maintain records and submit reports



Implications for Servicing Firms

- Refrigerant dealers will need to maintain records of CFC12, R-502 refrigerant purchased from them by the servicing firms
- Availability of CFC12, R-502 in the market will reduce considerably
- Price of R-12 is expected to increase sharply in the next few years



Fiscal Measures

- 100% custom & excise duty exemption for ODS Phase-out & non-ODS investments
- No financing for ODS technology investment
- Support to seek assistance from MLF
- Funding of CFC Production phase-out



- Purpose: To provide funds to Article 5 countries to meet incremental cost of ODS Phase-out
- Coverage: For units in existence upto 25/7/95
- As on 31/7/2000: 276 projects approved (Funds: 935 lakh US dollar). Will save 8620 ODP tonnes
- In RAC Sector: 46 projects approved. Will save 2203 ODP tonnes



Conclusions

- Alternative refrigerant technologies (CFC, HC and HFC) will co-exist for several years
- Service technicians will have to develop skills in better servicing practices for all types
- Retrofitting of existing CFC-based appliances with HC blend will be an important area of service
- Recovery and recycling of CFC and HFC refrigerants will become increasingly important



RAC Service Sector Strategy

- An India RAC Service Sector Strategy is under preparation at present
- Supported by Governments of Germany and Switzerland; UNDP and UNEP
- Its purpose is to develop a national strategy to reduce & eliminate use of CFC refrigerant in RAC servicing sector
- To be completed by end 2002
- Ozone Cell, MoEF is the national coordinating agency