

PROTECT THE OZONE LAYER

TECHNOLOGY CONVERSION IN THE FOAM SECTOR

- Technology conversions at 67 identified large and medium-sized enterprises.
 - Below 1 Mt - 9 companies
 - 1-5 Mt - 26 companies
 - 5-20 Mt - 22 companies
 - Above 20 Mt - 10 companies
- Focus on addressing enterprises with a consumption of more than 5 MT of HCFC-141b per annum during the first 2-3 years of implementation.
- From 2019, the enterprises consuming less than 5 MT would be targeted with the expectation that for the real small enterprises, relative cost effective (i.e., compared to price of HCFC-141b) solutions would be available for enterprises to convert to alternatives.
- Technical support for information dissemination on emerging low-GWP alternatives.
- The conversion costs for enterprises where the consumption less than 1 MT is estimated at a minimum cost to help them make modifications in their facilities to use the alternatives.

TRAINING AND CAPACITY BUILDING IN THE REFRIGERATION AND AIR-CONDITIONING SERVICING SECTOR

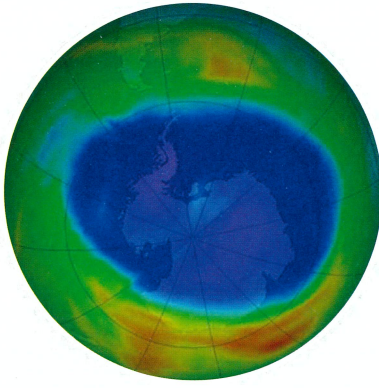
- Stage II of the HPMP proposes to phase out 322.71 mt (17.75 ODP tonnes) of HCFC-22 used in the refrigeration servicing sector through the following activities:
 - Training of customs and enforcement officers on monitoring and controlling imports of HCFCs;
 - Training of trainers on safe and efficient servicing of



- equipment including low-GWP flammable alternatives.
- Procurement of equipment (e.g. reclaiming machine, multi-refrigerant recovery, recycling and re-use (R3) machine with accessories, refrigerant leak detector, refrigerant identifier and five sets of low-GWP-based RAC equipment to demonstrate good refrigeration practices) for training institutions (ATC); and
- Servicing tools suitable for use with flammable refrigerants and safety equipment to train service technicians on handling flammable refrigerants for one centre of excellence.

WHAT IS THE EXPECTED OUTCOME OF HPMP STAGE 2

- Upon successful completion, the plan will result in net sustainable reductions of :-
- 143.77 ODP tonnes (42.9%) of HCFC consumption level by 2022; and
 - 1.8 million tonnes of CO₂ eq (carbon dioxide equivalent) direct emission annually from 2022.



Antarctic Ozone Hole
Source : NASA, Sept 2014

BENEFITS OF HPMP STAGE - 2

- Ozone Layer Protections
- Reduced direct greenhouse gas (GHG) emissions



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MALAYSIA'S
HYDROCHLOROFLUOROCARBONS (HCFC)
PHASE-OUT MANAGEMENT PLAN (HPMP)
STAGE 2 (2017-2022)