



**United Nations
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Programme**



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Executive Committee of
the Multilateral Fund for the
Implementation of the Montreal Protocol

Seventeenth Meeting
Montreal, 26-28 July 1995

PROJECT PROPOSAL: MAURITIUS

This document includes the Comments and Recommendations from the Fund Secretariat.

PROJECT EVALUATION SHEET

COUNTRY OR REGION:	Mauritius
PROJECT TITLE:	National CFC-12 recovery and recycling programme and demonstration of retrofit technology in commercial refrigeration
BUDGET:	US \$176,350 ¹
INCREMENTAL COSTS:	US \$176,350
ODS PHASE-OUT:	7.9 MT
COST EFFECTIVENESS ² :	N/A
PROJECT DURATION:	1 year
IMPLEMENTING AGENCY:	UNDP
NATIONAL COORDINATING AGENCY:	Ministry of Environment and Quality of Life
TECHNICAL REVIEW COMPLETED:	YES___NO X ___

SECRETARIAT'S COMMENTS

1. The project proposal is to implement a comprehensive national programme for recovery and recycling of refrigerant in the refrigeration sector and a demonstration of a commercial refrigeration retrofit.
2. The project will result in a phase out of 7.9 tonnes of CFCs.
3. The project includes a one-day training-of-the trainers seminar and three one-day training seminars by the trainers. The training workshops will demonstrate the usage of the recovery units, and a review of good refrigeration servicing practices. At least one person from each of the 125 repair workshops will be trained.
4. The project indicates that operating savings accrued from the 7.9 tonnes of recovered CFC will be offset by operating costs associated with: (i) larger time needed for a typical repair

¹ Including contingency (10 per cent).

² Determined as the ratio of incremental costs to the estimated annual saving of ODP (\$/ODPkg).
For CFC-11, ODS=ODP.

and maintenance operation in order to recover the refrigerant; (ii) additional transportation of the recovered refrigerant to service workshops, and to and from the recycled centers; and (iii) service charge at the recycling centers. UNDP considers that accounting for operational savings will disincentive small service workshops to cooperate with the programme.

5. The project includes a demonstration activity to provide technical know-how for retrofitting a CFC-based cold store to non-CFC refrigerants, based on recommendations from the existing compressor manufacturer and the refrigerant manufacturers. The retrofitted unit will serve as a demonstration model for the rest of the industry in Mauritius. Based on the experience gained and the success of this demonstration unit, the Mauritius Agricultural Marketing Board will finance the retrofit of the rest of the Commercial refrigeration equipment in the country.

SECRETARIAT'S RECOMMENDATIONS

6. The Secretariat recommends approval for the demonstration of retrofitting technology component of the project, in the amount of US \$36,000, based on the following reasons: (i) the importance of the commercial refrigeration sector in the country, (ii) Executive Committee's decision on retrofitting refrigeration equipment (Fourteenth Meeting), (iii) it will serve as a demonstration technology model for the rest of the industry in Mauritius as well as for the entire region; and (iv) based on the experience gained, retrofitting the rest of the equipment will be financed by the Mauritius Agricultural Marketing Board.

7. The Executive Committee might wish to consider whether operational savings based on estimates of the tonnage of CFCs recovered, should be taken into account in the presentation of recycling project proposals, and that the monitoring of quantities recovered should be carried out by national ozone units and should not be included in the costs for recycling projects.