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United Nations Environment Programme Distr. Limited

UNEP/OzL.Pro/ExCom/28/28

14 June 1999

ORIGINAL: ENGLISH

EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL Twenty-eighth Meeting Montreal, 14-16 July 1999

## PROJECT PROPOSALS: CROATIA

This document includes the comments and recommendations of the Fund Secretariat on the following project proposals:

## Refrigeration

•	Refrigerant management plan: national recovery and recycling project	UNIDO
•	Refrigerant management plan: customs training	UNIDO
•	Refrigerant management plan: phase I: training of trainers in good	UNIDO
	refrigerant management practices, phase II: national technicians training	

# PROJECT EVALUATION SHEET **CROATIA**

Refrigeration RMP SECTOR: ODS use in sector (1998): 136.23 ODP tonnes

Sub-sector cost-effectiveness thresholds: n/a US \$/kg

## Project Titles:

(a) Refrigerant management plan: national recovery and recycling project

(b) Refrigerant management plan: customs training

(c) Refrigerant management plan: phase I: training of trainers in good refrigerant management practices, phase II: national technicians training

Project Data	RMP	RMP	RMP	
	(a)	(b)	(c)	
Enterprise consumption (ODP tonnes)				
Project impact (ODP tonnes)	15.00			
Project duration (months)	24	24	24	
Initial amount requested (US \$)	702,600	52,000	156,000	
Final project cost (US \$):				
Incremental capital cost (a)	637,600	48,000	145,500	
Contingency cost (b)	65,000	5,000	13,500	
Incremental operating cost (c)				
Total project cost (a+b+c)	702,600	53,000	159,000	
Local ownership (%)	100%	100%	100%	
Export component (%)	0%	0%	0%	
Amount requested (US \$)	702,600	52,000	156,000	
Cost effectiveness (US \$/kg.)				
Counterpart funding confirmed?				
National coordinating agency	Ozone Office of the State Directorate for Nature and			
	Environment			
Implementing agency	UNIDO	UNIDO	UNIDO	

Secretariat's Recommendations			
Amount recommended (US \$)	289,910	38,250	70,000
Project impact (ODP tonnes)	15.00		
Cost effectiveness (US \$/kg)	n/a		
Implementing agency support cost (US \$)	37,688	4,973	9,100
Total cost to Multilateral Fund (US \$)	327,598	43,223	79,100

## PROJECT DESCRIPTION

- (a) Refrigerant management plan: national recovery and recycling project
- (b) Refrigerant management plan: customs training
- (c) Refrigerant management plan: phase I: training of trainers in good refrigerant management practices, phase II: national technicians training

## Refrigerant Management Plan For Croatia

- 1. In 1998, the total ODS consumption in the refrigeration sector in Croatia was estimated at 53.4 ODP tonnes representing 70 per cent of the total ODS consumption in the country. Based on data gathered during a survey completed in 1998, there are about 1,000 refrigeration technicians in the country.
- 2. A comprehensive By-Law on Substances that Deplete the Ozone Layer has been enacted by the Government and came into force on 30 January 1999 (a copy of the By-Law was attached to the project). The By-Law bans the release of ODSs into the atmosphere; import and export of ODS from/to non-Parties to the Protocol, import of recovered and recycled ODS or products containing ODS. The By-Law also established a fixed schedule for phasing out specific amounts of ODSs between 1999 and 2006, when a complete ODS phase out is targeted. The By-Law also specifies that recovery and recycling of ODS is permitted and the recovered ODS may be temporarily exported for recycling if such facilities do not exist in the country. From 1 January 2000, ODS must be recovered from products before they are disposed of; all persons/organizations doing maintenance and decommissioning of ODS using equipment need to obtain permission to do so.
- 3. There are 10 Customs Districts in Croatia, and approximately 50 border entry points, but only five entry points are used for international movement of traffic and goods. The goods are checked against a valid license; physical examination of goods, if required, is also done.
- 4. The RMP identified two basic training programmes: (i) training for customs officers to identify and develop techniques for collecting and reporting consumption of ODS import and ODS-based equipment and to ensure the proper enforcement of the 1999 By-Law; this programme includes a request in the amount of US \$19,500 for ODS identification kits to be used in the five entry ports; and (ii) a "train the trainers" programme for refrigeration technicians in good management practices, aimed at improving service practices to prevent release of CFCs into the atmosphere, provides information on the new 1999 By-Law; and stimulates development of a network for information sharing throughout the sector.
- 5. The RMP also includes a subproject for the establishment of a recovery and recycling network comprising 67 recovery units (including units to be used in the training programme on good servicing practices) and 10 recycling centres for servicing commercial and industrial refrigeration equipment, at a total cost of US \$289,910. This activity also provides for 3 one and a half-day workshops for service technicians on practical demonstrations on recovery operations.

- 6. Implementation of these projects will lead to recovery and recycling of 15.0 tonnes of CFC each year. This amount would be additional to the amount of refrigerant, which might be saved from the teaching of good service and maintenance practices at the training seminars.
- 7. Croatia's Ozone Secretariat will be responsible for the monitoring, co-ordination and implementation of proposed phase-out activities in the RMP. The 1999 By-Law requires reporting of recovered ODS; thus, the Ozone Office will: design a programme to follow up and monitor the recovery and recycling activities; keep records of the amounts recovered and the quantities of recycled refrigerant stored at the recycling centres; monitor the quality of recycled gas as well as the price structure.

#### SECRETARIAT'S COMMENTS AND RECOMMENDATIONS

#### **COMMENT**

1. The Secretariat questioned the relatively large number of identifications kits (30) given the fact that there are five points of entry of international goods. UNIDO and the Secretariat also discussed issues related to the logistical arrangements for the training programmes and the level of funding requested, as well as the size of the recovery and recycling programme in relation to CFC consumption level and its sectoral distribution. UNIDO agreed to revise these requests, and adjusted the level of funding, accordingly.

#### RECOMMENDATION

1. The Fund Secretariat recommends blanket approval of the project with associated support costs at the funding level shown in the table below:

	Project Title	<b>Project Cost</b>	Support Cost	Implementing
		(US\$)	(US\$)	Agency
(a)	Refrigerant management plan: national recovery and recycling	289,910	37,688	UNIDO
	project			
(b)	Refrigerant management plan: customs training	38,250	4,973	UNIDO
(c)	Refrigerant management plan: phase I: training of trainers in	70,000	9,100	UNIDO
	good refrigerant management practices, phase II: national			
	technicians training			