



联 合 国
环 境 规 划 署



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执行蒙特利尔议定书
多边基金执行委员会
第二十九次会议
1999年11月24日至26日，北京

国家方案：伯利兹

本文件载有：

- 国家方案评价表（基金秘书处编制）
- 基金秘书处的评论和建议
- 伯利兹政府的送文函
- 国家方案简介
- 国家方案（执行摘要）

伯利兹国家方案评价表

自然资源和环境部臭氧股

《维也纳公约》和《蒙特利尔议定书》批准情况

签字	批准	生效
《维也纳公约》（1985）	1997 年 6 月 6 日	1997 年 9 月 4 日
《蒙特利尔议定书》（1987）	1998 年 1 月 9 日	1998 年 4 月 9 日
《伦敦修正案》（1990）	1998 年 1 月 9 日	1998 年 4 月 9 日
《哥本哈根修正案》（1992）	1998 年 1 月 9 日	1998 年 4 月 9 日

受管制物质生产情况：不生产任何受管制物质

受管制物质消耗情况（1998 年）：
25.3 公吨
24.9 加权吨（ODP）

吨数	CFC-1 1	CFC-1 2	CFC-11 3	CFC-11 4	CFC-11 5	共计	哈 1211	龙 1301	哈 龙	龙 共计	CTC	MCF	共计	甲基溴
ODS 2.3	22.3				0.7	25.3								
ODP 2.3	22.3				0.4	25.0								

不同物质的 ODP 所占比例：CFC 100.7% 哈龙 CTC 和 MCF 甲基溴

各行业的 ODP 所占比例：
气雾剂 泡沫塑料 哈龙 制冷 溶剂 其他 甲基溴
耗量（ODP 吨） 0.0 0.0 0.0 24.9 0.0 0.0 0.0
所占百分比： 100.0% 0.0

国家方案

国家方案期限：10 年（2000—2010）
ODS 停用目标：在 2005 年之前把各类 CFC 耗量减少 50%；在 2010 年之前实现全部停用
优先停用领域：制冷设备维修行业
国家方案活动所需费用：381,340 美元

战略：

该国政府保证以有控制和成本效益的方式停用 ODS。行动计划的主要构成部分包括：执行管制措施，举办公众宣传方案和进行培训活动。将视必要颁布法律和确定法案的案文。将改进技术监测能力，以便确保有效地监测对法律和技术规定的遵守情况。

基金秘书处的评论和建议

评论

1. 伯利兹在 1998 年的 ODS 总耗量为 24.9 ODP 吨，主要是用于维修制冷设备和汽车空调机的 CFC-12。1995—1997 年期间的附件 A 所列物质计算年耗量是用以确定伯利兹是否遵守《蒙特利尔议定书》的基准耗量，为 15.7 吨。已经把在编制国家方案期间收集的 ODS 耗量数据转交臭氧秘书处。
2. 伯利兹国内的制冷设备包括 33,000 多台家用冰箱和冰柜，这些设备每隔 7 年维修一次；大约 12,000 辆安装有空调机的汽车。该国有 33 个制冷设备保养和修理工厂，主要设在首都。
3. 1985 年以来，伯利兹已经根据《农药管制委员会法》禁止使用和进口甲基溴。但是，其邻国现在正施加压力，以图使该国批准把甲基溴用于装运前的消毒处理和出口货运检疫。
4. 国家方案包括一个在自然资源和环境部内设立臭氧办公室的项目（体制建设）。伯利兹政府申请为这个项目提供总共 94,500 美元的执行经费。基金秘书处关于这项申请的评论和建议载于环境规划署的工作方案修正案（UNEP/OzL.Pro/ExCom/29/21）。
5. 本国家方案还包括一个制冷剂管理计划。伯利兹政府申请为这个项目提供总共 166,625 美元的执行经费。基金秘书处关于这项申请的评论和建议载于 UNEP/OzL.Pro/ExCom/29/19 号文件。

建议

基金秘书处建议如下：

1. 核准伯利兹的国家方案。核准该国家方案并不意味着核准其中提出的项目或项目经费数额。
2. 请伯利兹政府根据执行委员会关于国家方案执行问题的决定（UNEP/OzL.Pro/ExCom/10/40，第 135 段），每年向执委会报告国家方案的执行情况。第一次报告所涉期间为 1999 年 12 月 1 日至 2000 年 12 月 31 日，应采用核准的格式提交基金秘书处，提交日期最迟不得晚于 2001 年 5 月 1 日。

COUNTRY PROGRAMME COVER SHEET

COUNTRY BELIZE
DATE RECEIVED
LEAD NATIONAL AGENCY DEPARTMENT OF THE ENVIRONMENT
PERIOD COVERED BY
COUNTRY PROGRAMME 2000 – 2010
IMPLEMENTING AGENCY UNEP

1. PHASE-OUT SCHEDULE

Substance	1998 ODS Consumption in ODP tonnes	Planned Total Consumption until phase-out (tonnes x ODP)	Planned year of Phase-out
CFC-11	2.284	4.457	2002
CFC-12	22.339	87.816	2010
R-502 (CFC-115)	0.232	1.006	2001
HCFC-22	0.675	13.500	2040
Total	25.530	106.779	2040

2. ACTION PLAN OF BELIZE

In order to implement its phase-out strategy, the Government has developed an Action Plan as follows: (Since 100% of ODS consumption is by the refrigeration and air-conditioning sector, this Action Plan duplicates the one drawn up within the Refrigerant Management Plan)

Actions to be implemented between 2000 and 2002

Establish the National Ozone Unit (NOU) within the Department of Environment in the Ministry of Natural Resources and Environment, as the focal point for all activities related to the Montreal Protocol.

Embark on a public awareness programme with technical assistance from UNEP and funding from the Multilateral Fund.

Develop and implement control measures such as:

- ♦ Prohibition of imports of equipment requiring CFCs, Halons, Carbon Tetrachloride and Methyl Chloroform;
 - ♦ Prohibition of new enterprises producing and/or assembling equipment, foams, or aerosols using CFC, Halons, Carbon Tetrachloride and Methyl Chloroform;
 - ♦ Requirements for the certification of technicians;
 - ♦ Establishment of Consumption or "Environment" Levies on ODS;
 - ♦ Establishment of import quotas and permits for ODS;
 - ♦ Establishment of identification requirements (labeling) on imported ODS and ODS containing equipment;
 - ♦ Prohibition of investments for building new plants intending to use ODS;
 - ♦ Prohibition of the expansion of existing industry requiring use of CFCs, Halons, Carbon Tetrachloride and Methyl Chloroform based technology;
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- ♦ Reduction of import tariffs on equipment and materials required for the implementation of ODS phase-out projects; and
- ♦ Reduction of import tariffs on equipment intended to use ozone friendly technology;
- ❖ Train the Customs and Excise Department, Central Statistics Office and NOU in the monitoring and collection of data to meet the reporting requirements of the Protocol.
- ❖ Implement a Recovery and Recycling project after implementing the necessary legislation and economic instruments to increase the price of virgin CFC-12, HCFC-22 and R-502.
- ❖ Establish networks and sites for the recovery and recycling of ODS and the operation of the same.
- ❖ Establish a monitoring (inventory) system for ODS imports and consumption.
- ❖ Establish a training programme for refrigeration and air-conditioning technicians.

3. PROJECTS

A summary of the projects identified so far, and detailed in Annex 1 and 2, are given below:

Name of Project	Time frame	Estimated Cost (US\$)	Funds sought from MLF/ Bilateral Agencies (US \$)	ODS consumption to be phased-out (ODP Tonnes)
Institutional Strengthening (including a public awareness programme)	2000-2003	153,200	100,500	N/A
REFRIGERANT MANAGEMENT PLAN				
i) Policy development workshop and policy formulation	2000	31,075	31,075	Policy development for phasing out ODSs / equipment
ii) Technician Training	2000	54,240	54,240	Reduction in service recharge
iii) Training in Monitoring and Control of ODS	2000-2001	33,900	33,900	N/A
iii) Recovery/Recycling project	2000	61,125	61,125	N/A
<i>TOTAL</i>		333,540	280,840	

4. COSTS

ODP to be phased-out	15.878 ODP tonnes
Total Cost of phase-out	US\$ 333,540
Cost of projects being submitted with this Country Programme	US\$ 280,840
Cost effectiveness	US\$ 17.69 / kg ODP

EXECUTIVE SUMMARY

Belize acceded to the Montreal Protocol, along with the London and Copenhagen Amendments, on September 9th 1998 and qualifies as an Article 5 country. As a first step to complying with the provisions of the Protocol, the Government of Belize has carried out a national survey and formulated its Country Programme with technical assistance from UNEP and funding assistance from the Multilateral Fund.

The Country Programme provides data on consumption and use of ODS in Belize and expresses the commitment of the Government to phase-out its consumption of ODS. An Action Plan has been prepared and will be implemented after review and modifications. The purpose of the Action Plan is to ensure a smooth phase-out without causing undue economic hardship to the industrial, commercial and, in particular, the domestic consumers.

Belize does not produce any ODS and all its requirements are met through imports. The total 1998 ODS consumption amounted to 37.574 tonnes (25.53 ODP tonnes, including R-22), resulting in a consumption of 0.111 kg/capita. The main consumption of ODS is in the Refrigeration and air-conditioning sector, comprising nearly 100% of total use.

The Government of Belize is committed to phasing out the consumption of ODS in a controlled and cost effective manner. It will take the steps outlined in the Action Plan to meet the freeze and phase-out schedule required by the Protocol. The Government is concerned about the availability of supply of CFCs to meet the service requirements of existing CFC based equipment to enable their operation to the end of their economic life. It is expected that by 2010, most equipment will have been retrofitted or replaced with ozone friendly technology, with some CFC-12 based domestic refrigeration equipment and HCFC-22 equipment remaining. Market forces, such as increasing prices and non-availability of CFCs and CFC using equipment, will play a vital role in the shift by consumers to ODS-free technology, particularly in the domestic, commercial and industrial sectors. The Government will strongly encourage recovery and recycling to meet the service requirements of any ODS based equipment.

The Government has nominated the Department of Environment as the focal point for Montreal Protocol activities. An Institutional Strengthening project is submitted for the formation of the National Ozone Unit (NOU). The NOU will be constituted within the Department to act as the focal point and will coordinate and monitor activities supporting a complete phase-out of ODS. Since nearly all ODS used in the country are refrigerants, a Refrigerant Management Plan (RMP) is also being submitted, along with its associated projects.

A total of **US \$ 205,500** is being requested from the Multilateral Fund to implement the projects. This will be supplemented by funds from the Government of Belize.
