



**Programme des  
Nations Unies pour  
l'environnement**



Distr.  
GENERALE

UNEP/OzL.Pro/ExCom/60/11  
11 mars 2010

FRANÇAIS  
ORIGINAL: ANGLAIS

COMITE EXECUTIF  
DU FONDS MULTILATERAL AUX FINS  
D'APPLICATION DU PROTOCOLE DE MONTREAL  
Soixantième réunion  
Montréal, 12 - 15 avril 2010

**PLAN D'ACTIVITÉS DE L'ONUDI POUR LA PERIODE 2010-2012**

Les documents de présession du Comité exécutif du Fonds multilatéral aux fins d'application du Protocole de Montréal sont présentés sous réserve des décisions pouvant être prises par le Comité exécutif après leur publication.

## OBSERVATIONS ET RECOMMANDATIONS DU SECRÉTARIAT DU FONDS

1. Ce document présente un sommaire des activités prévues par l'ONUDI afin d'éliminer les substances appauvrissant la couche d'ozone (SAO) pendant la période triennale 2010-2012. Il contient également les indicateurs du plan d'activités de l'ONUDI, des observations générales et des recommandations aux fins d'examen par le Comité exécutif. Le plan d'activités de l'ONUDI pour les années 2010-2012 est joint à l'annexe I.

### Attribution des ressources

2. Le tableau 1 présente la valeur des activités contenues dans le plan d'activités par catégorie « requises » et « non requises » pour la conformité, par année, selon le modèle de plan d'élimination triennal à horizon mobile.

Tableau 1

### ATTRIBUTION DES RESSOURCES DANS LE PLAN D'ACTIVITÉS DE L'ONUDI (2010-2014) (000 \$US)

| Requises/non requises selon le modèle   | 2010          | 2011           | 2012           | 2013          | 2014          | Total<br>(2010-2014) |
|---|---------------|----------------|----------------|---------------|---------------|----------------------|
| Requises pour la conformité (accords pluriannuels et coûts standards)   | 9 498         | 7 185          | 6 366          | 2 911         | 4 468         | 30 429               |
| Requises pour la conformité (HCFC)  | 58 957        | 216 932        | 162 899        | 66 867        | 44 884        | 550 539              |
| Non requises pour la conformité (mobilisation des ressources)   | 323           |                |                |               |               | 323                  |
| Non requises pour la conformité (destruction des SAO)   | 4 085         | 3 698          |                |               |               | 7 783                |
| Non requises pour la conformité (refroidisseurs, commerce illicite, tétrachlorure de carbone, bromure de méthyle, inhalateurs à doseur, études, ateliers) | 1 075         |                |                |               |               | 1 075                |
| <b>Total</b>  | <b>73 937</b> | <b>227 815</b> | <b>169 266</b> | <b>69 779</b> | <b>49 352</b> | <b>590 148</b>       |

3. L'ONUDI prévoit des activités d'une valeur de 73,94 millions \$US en 2010 et d'une valeur totale de 590,15 millions \$US pour la période 2010-2014.

### Accords pluriannuels et coûts standards

4. Le tableau 2 présente l'information relative aux accords pluriannuels, aux nouvelles activités sur le bromure de méthyle, aux plans de gestion de l'élimination finale, au renforcement des institutions et aux activités essentielles de l'ONUDI requises pour la conformité.

Tableau 2

**ACTIVITÉS REQUISES POUR LA CONFORMITÉ RELATIVES AUX ACCORDS  
PLURIANNUELS ET AUX COÛTS STANDARDS (2010-2014) (000 \$US)**

| Requises selon le modèle   | 2010         | 2011         | 2012         | 2013         | 2014         | Total<br>(2010-2014) |
|--|--------------|--------------|--------------|--------------|--------------|----------------------|
| Activités pluriannuelles approuvées  | 4 351        | 3 278        | 2 626        | 758          | 2 250        | 13 262               |
| Nouvelles activités sur le bromure de méthyle  | 2 032        | 667          | 538          |              |              | 3 237                |
| Plans de gestion de l'élimination finale   | 32           | 607          |              |              |              | 640                  |
| Renforcement des institutions  | 1 112        | 603          | 1 112        |              |              | 2 827                |
| Activités essentielles   | 1 971        | 2 030        | 2 091        | 2 154        | 2 218        | 10 463               |
| Total (activités requises pour la conformité pour les accords pluriannuels et les coûts standards) | <b>9 498</b> | <b>7 185</b> | <b>6 366</b> | <b>2 911</b> | <b>4 468</b> | <b>30 429</b>        |

5. Le plan d'activités général (UNEP/OzL.Pro/ExCom/60/7) aborde plusieurs questions d'intérêt pour les activités de l'ONUDI requises pour la conformité, plus particulièrement les accords pluriannuels et les coûts standards, dont celles-ci :

- a) L'ONUDI fait état de valeurs pour les accords pluriannuels qui ne correspondent pas aux valeurs des accords pluriannuels dans les dossiers du Secrétariat et qui exigeraient une augmentation de 150 500 \$US de la somme allouée;
- b) La somme totale demandée par l'ONUDI pour le plan de gestion de l'élimination finale en Somalie dépasse le niveau maximum permis;
- c) L'ONUDI fait état de valeurs pour des projets de renforcement des institutions qui dépassent les valeurs requises en vertu du modèle de plan d'élimination triennal à horizon mobile.

6. Aucune autre question n'a été soulevée pour les activités requises pour la conformité ci-dessous :

- a) De nouvelles activités relatives au bromure de méthyle requises pour la conformité à l'objectif d'élimination de 2015 sont prévues en Arabie saoudite, au Chili, en Éthiopie, en Iraq, au Kenya et au Mozambique;
- b) Les coûts de base essentiels de l'ONUDI devraient augmenter de 3 pour cent par année.

### Activités relatives aux HCFC

#### Volume de HCFC

7. Le texte explicatif de l'ONUDI révèle que son plan d'activités est fondé sur les données de consommation à jour, mais cette précision n'est pas apportée dans les tableaux du plan d'activités. De plus, la plupart des enquêtes sur les HCFC menées par l'ONUDI ont été menées à terme. Répondant à une question du Secrétariat, l'ONUDI a indiqué que les données sur les HCFC ont été utilisées pour les secteurs des climatiseurs individuels et de la mousse de polystyrène extrudé de la Chine et le plan de gestion de l'élimination des HCFC pour le Soudan. Les données du modèle ont été utilisées dans tous les autres cas.

8. Les agences ont été invitées à indiquer si elles avaient prévu des activités d'élimination accélérée dans leurs plans d'activités. Les agences d'exécution ont inclus dans leurs plans d'activités des activités pour les HCFC pour des pays dont le volume à éliminer dépasse 10 tonnes PAO. Les activités prévues au plan portent sur un volume supérieur au volume exigé selon le modèle et visent la Chine (105,7 tonnes PAO), la Colombie (34,2 tonnes PAO), le Costa Rica (15,9 tonnes PAO), l'Indonésie (154,2 tonnes PAO), la Jordanie (39 tonnes PAO), la Mongolie (26 tonnes PAO), les Philippines (12,7 tonnes PAO), Seychelles (13,6 tonnes PAO) et la Thaïlande (57,2 tonnes PAO). Le plan d'activités de l'ONUDI prévoit des activités pour le volume de HCFC de certains de ces pays.

9. L'ONUDI a été invitée à préciser si elle avait prévu des activités d'élimination accélérée dans son plan d'activités. L'ONUDI a indiqué que l'élimination est établie en vue d'un objectif de réduction de 10 pour cent, sauf en Croatie, où l'élimination accélérée est inévitable.

10. L'ONUDI prévoit des activités dans certains pays dans lesquels le niveau d'élimination de HCFC est supérieur aux 10 tonnes PAO exigées en vertu du modèle, notamment en Chine (1 008,2 tonnes PAO), en Indonésie (17,2 tonnes PAO), en Jordanie (16,4 tonnes PAO) et aux Philippines (10 tonnes PAO). L'ONUDI prévoit également des activités dans des pays dans lesquels le niveau d'élimination de HCFC est inférieur au niveau exigé selon le modèle, notamment en Argentine (45 tonnes PAO), en Inde (5 tonnes PAO), au Koweït (100 tonnes PAO), au Mexique (217 tonnes PAO), au Nigeria (5 tonnes PAO) et au Yémen (20 tonnes PAO). L'examen de la question par le Comité exécutif dans le contexte du plan d'activités général pourrait avoir des répercussions sur le volume visé par le plan d'activités de l'ONUDI.

11. Le Comité exécutif pourrait souhaiter envisager de maintenir le volume de HCFC dans le plan d'activités de l'ONUDI, car il représente une accélération inévitable de l'élimination.

#### Projets de démonstration sur les HCFC

12. Le plan d'activités de l'ONUDI comprend six projets de démonstration, dont cinq projets qui seront proposés en 2010 et un sixième qui sera proposé en 2011. Tous les projets de démonstration de l'ONUDI prévoient une certaine élimination, sauf les projets proposés pour la technologie à base de butane en Chine (1,075 million \$US), le secteur des climatiseurs individuels de la Chine (4,3 millions \$US) et la région de l'Europe et de l'Asie centrale (271 410 \$US). Des sommes ont été reçues pour la préparation de certains de ces projets. L'ONUDI demande la somme de 96 750 \$US pour la préparation de ces projets. L'examen des projets de démonstration sur les HCFC par le Comité exécutif pourrait avoir des répercussions sur les projets de démonstration sur les HCFC de l'ONUDI.

#### HCFC dans le secteur de l'entretien dans les pays à faible volume de consommation

13. Le plan d'activités de l'ONUDI prévoit des activités d'une valeur totale de 7,61 millions \$US pour les HCFC dans le secteur de l'entretien dans les pays à faible volume de consommation. Cette somme dépasse de 5,67 millions \$US la somme faisant l'objet des délibérations en cours. L'examen par le Comité exécutif des niveaux de financement des activités visant les HCFC pourrait avoir des répercussions sur le plan d'activités de l'ONUDI.

#### HCFC dans les pays n'étant pas des pays à faible volume de consommation

14. Le plan d'activités de l'ONUDI prévoit une somme totale de 477,03 millions \$US pour 2 214,6 tonnes PAO, dont 299,91 millions \$US pour la consommation de 1 008,2 tonnes PAO en Chine. L'examen par le Comité exécutif du rapport coût-efficacité et du volume maximum de HCFC pour la planification des activités pourrait avoir des répercussions sur le plan d'activités de l'ONUDI.

### **Activités de destruction des SAO**

15. Le plan d'activités de l'ONUDI prévoit des activités de destruction des SAO d'une valeur de 4,09 millions \$US en 2010 et de 7,78 millions \$US pour la période 2010-2014. L'ONUDI a reçu des sommes pour la préparation de tous les projets d'élimination des SAO, sauf pour les projets de la région de l'Afrique (1,34 million \$US) et de l'Asie occidentale (1,29 million \$US). Le rapport de coût-efficacité est inférieur à 13,2 \$US/kg de SAO à détruire pour toutes les activités de destruction des SAO, ce qui est conforme aux paragraphes a) i) c) de la décision 58/19. L'examen de la question par le Comité exécutif dans le contexte du plan d'activités général pourrait avoir des répercussions sur le plan d'activités de l'ONUDI.

### **Autres activités non requises pour la conformité (mobilisation des ressources, études et ateliers)**

16. Le plan d'activités de l'ONUDI comprend deux activités non requises pour la conformité dont des activités de mobilisation des ressources d'une valeur de 322 500 \$US en 2010 et une activité sur les agents de transformation en République populaire démocratique de Corée d'une valeur de 1,075 million \$US en 2010. Le Comité a reporté l'examen de la mobilisation des ressources pour l'ONUDI à sa 60<sup>e</sup> réunion (décision 59/25).

### **Réponse de l'agence sur la valeur élevée des éléments du plan d'activités**

17. Le plan d'activités de l'ONUDI a à lui seul une valeur 74 millions \$US en 2010 et de 228 millions \$US en 2011, ce qui représente 302 millions \$US des 396 millions \$US disponibles pour les programmes au cours de la période triennale et une part disproportionnée des ressources disponibles. L'ONUDI a indiqué que les coûts ont été calculés à partir des besoins d'élimination des pays et des rapports coût-efficacité existants en tonnes.

18. Les sommes demandées pour la préparation de plans de gestion de l'élimination des HCFC dans la rubrique « Sommes supplémentaires pour la préparation de plans de gestion de l'élimination des HCFC » en République populaire démocratique de Corée et en Jamahiriya arabe libyenne dépassent les limites de financement pour cette activité. L'ONUDI a indiqué que dans ces deux cas, elle peut recevoir 150 000 \$ par pays, en raison du niveau de consommation dans ces pays. À l'heure actuelle, l'ONUDI a reçu 50 000 \$US pour la République populaire démocratique de Corée et le total dans les plans d'activités de l'ONUDI et du PNUE est inférieur à 100 000 \$US. La Jamahiriya arabe libyenne a déjà reçu 85 000 \$US et l'ONUDI a demandé 65 000 \$US de plus dans son plan d'activités de 2010.

19. La République arabe syrienne et l'Uruguay ont déjà reçu 60 000 \$US pour la préparation de projets d'investissement. La somme reçue en République arabe syrienne était destinée à la préparation d'activités dans le secteur de la mousse de polyuréthane. En Uruguay, la somme était destinée aux secteurs de la réfrigération et de la climatisation (trois entreprises). La demande de financement de ces activités pour les deux pays dans le plan d'activités de 2010 a été modifiée à 40 000 \$US, afin de tenir compte des sommes déjà versées.

20. Le rapport coût-efficacité de l'ONUDI pour les activités entourant le HCFC-141b est de 9,42 \$US/kg. Ce rapport est plus élevé que celui de l'agence ayant le meilleur rapport coût-efficacité (8,66 \$US/kg). Le rapport coût-efficacité de l'ONUDI pour les activités visant le HCFC-22 (15,25 \$US/kg) est aussi énormément plus élevé que celui de l'agence présentant le meilleur rapport coût-efficacité (8,16 \$US/kg). L'ONUDI a indiqué que les chiffres réels de coût-efficacité seront abordés et convenus au cas par cas. Elle a aussi indiqué qu'en ce qui concerne l'élimination du HCFC-22, une part importante de la somme figurant dans le plan d'activités de l'ONUDI est destinée à l'élimination du HCFC-22 dans le secteur des climatiseurs individuels en Chine. Un rapport coût-efficacité de 17 \$US/kg

a été calculé pour cette activité, selon le rapport du Groupe de l'évaluation technique et économique. Le rapport coût-efficacité des autres projets est fondé sur les rapports coûts-efficacité antérieurs en tonnes.

### Cofinancement

21. Aucune valeur présentée dans le plan d'activités ne prévoit de cofinancement. Les possibilités de cofinancement seront précisées dans les plans de gestion de l'élimination des HCFC, lors de leur présentation.

### Indicateurs d'efficacité

22. Le tableau 3 propose un sommaire des indicateurs d'efficacité de l'ONUDI conformément aux décisions 41/93, 47/51 et 49/4 d).

Tableau 3

### INDICATEURS D'EFFICACITÉ

| Indicateur  | Objectifs de 2010                        |
|---|--|
| Nombre de programmes annuels pour des accords pluriannuels approuvés par rapport au nombre planifié   | 32                                       |
| Nombre de projets/activités individuels (projets d'investissement, plans de gestion des frigorigènes, banques de halons, assistance technique) approuvés par rapport au nombre planifié   | 15                                       |
| Activités repères achevées/niveaux de SAO réalisés pour les tranches annuelles de projets pluriannuels approuvés par rapport au nombre planifié   | 11                                       |
| SAO éliminées pour les projets individuels par rapport à celles planifiées dans les rapports périodiques  | 45.1                                     |
| Achèvement des projets (en vertu de la décision 28/2 pour les projets d'investissement) et selon la définition pour les projets ne portant pas sur des investissements par rapport aux achèvements prévus dans les rapports périodiques | 18                                       |
| Nombre de politiques/activités d'assistance pour la réglementation réalisé par rapport aux prévisions   | S.o.                                     |
| Rapidité d'achèvement du volet financier par rapport aux résultats prévus aux dates d'achèvement dans le rapport périodique   | 12 mois après l'achèvement des activités |
| Nombre de rapports d'achèvement de projet remis dans les délais prescrits par rapport au nombre prévu   | Dans les délais                          |
| Remise des rapports périodiques et des réponses dans les délais prescrits à moins de stipulation contraire  | Dans les délais                          |

23. L'objectif de tranches annuelles de plans pluriannuels devrait être de 39 pour l'ONUDI, à raison de 11 tranches annuelles d'accords approuvés et de 28 tranches de nouveaux accords. L'objectif de l'agence pour le nombre de projets approuvés devrait être de 27, à savoir 7 projets de démonstrations, 3 projets d'assistance technique, 7 projets de renforcement des institutions et 10 projets d'investissement. Selon le rapport périodique de 2008 (et la date d'achèvement modifiée), l'objectif d'élimination devrait être de 965,7 tonnes PAO, en excluant l'accord pluriannuel. L'objectif de l'ONUDI pour l'achèvement de projets devrait être de 15, excluant les accords pluriannuels et la préparation de projets.

## RECOMMANDATIONS

24. Le Comité exécutif pourrait souhaiter :

- a) Appuyer le plan d'activités de l'ONUDI pour la période 2010-2012 présenté dans le document UNEP/OzL.Pro/ExCom/60/11, tout en prenant note que cet appui ne signifie pas l'approbation des projets qu'il contient ni de leurs niveaux de financement, et tient compte des modifications apportées aux activités suivantes :
  - i) Les activités associées aux questions abordées dans le plan d'activités général, dont :
    - a) La valeur des accords pluriannuels;
    - b) Les activités du plan de gestion de l'élimination finale après 2010;
    - c) La valeur des projets de renforcement des institutions autres que les projets indiqués dans le plan d'élimination triennal à horizon mobile;
    - d) Le volume de HCFC;
    - e) Les projets de démonstration sur les HCFC;
    - f) Les HCFC associés au secteur de l'entretien dans les pays à faible volume de consommation;
    - g) Les projets sur les HCFC dans les pays n'étant pas des pays à faible volume de consommation;
    - h) Les activités de destruction des SAO;
  - ii) Le maintien du volume de HCFC pour la Croatie dans le plan d'activités de l'ONUDI, car il représente une élimination accélérée inévitable;
- b) Approuver les indicateurs d'efficacité de l'ONUDI proposés dans le tableau 3 des observations du Secrétariat du Fonds dans le document UNEP/OzL.Pro/ExCom/60/11, tout en établissant des objectifs de 39 tranches annuelles d'accords pluriannuels à approuver, 27 projets individuels approuvés, 965,7 tonnes PAO à éliminer et 15 projets achevés.

-----



**Annex I**

**UNIDO**  
**BUSINESS PLAN 2010**



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

## EXECUTIVE SUMMARY

The 2010 Business Plan of UNIDO together with the forecast for 2011 and 2012 represents the Three-year Rolling Business Plan of Montreal Protocol activities of the Organization. However, this year, on the request of the Multilateral Fund Secretariat, UNIDO has included funding estimates for 2013 and 2014 too. This provides useful information for ExCom members for the funding needs to reach the 2013 and 2015 control measures for HCFCs.

UNIDO's Business Plan was prepared based on the previous three year rolling business plan, taking into consideration the approvals and experience of previous years, the requests received from Article 5 countries, priorities established and the decisions taken by the Executive Committee. Furthermore, the 2010-2012 model rolling three-year phase-out plan adopted at the 59<sup>th</sup> Meeting of the ExCom was used as a flexible guide for resource planning for the 2010-2012 triennium as well as for 2013 and 2014. For countries, where more updated consumption data was available, resources were planned according to their actual needs. It also reflects the discussions held in Montreal during the Inter-agency Coordination Meeting on 28-29 January 2010, whereby an analysis of the compliance situation provided valuable information. It is also largely inspired from the historical decision of the 19<sup>th</sup> Meeting of the Parties agreeing on the acceleration of the phase-out of HCFCs, and the relevant ExCom decisions on HPMPs and HCFC investment and demonstration projects.

In 2010, UNIDO will submit for approval by the Executive Committee forward commitments amounting to US\$ 4,350,996. As listed in Table 1, the lion's share (over 65%) of UNIDO's 2010 Business Plan is focusing on the phase out of HCFCs. Furthermore, additional 17% is for the demonstration of new technologies for HCFC phase out as well as the destruction of unwanted ODSs. Methyl bromide projects account for 7% of UNIDO's 2010 Business Plan.

In accordance with ExCom's decision 38/68, as modified by decision 46/35, in 2006, and following decision 56/41 maintaining the existing cost regime for the 2009-2011 Triennium, **US\$ 1,970,776**, has been allocated for funding of the 2011 core unit at UNIDO.

The total amount foreseen in UNIDO's 2010 Business Plan, including forward commitments, new investment and non-investment activities, and funding of core unit is **US\$ 73,937,176** including support costs and with an impact of **1,136 ODP** tonnes.

For the second and third year of the Three-year Rolling Business Plan, US\$ 227.8 million worth of projects was included for the year 2011 with a planned phase-out of 1,702 ODP tonnes and US\$ 169.3 million worth of projects were earmarked for 2012 with an impact of 951 ODP tonnes.

## **A. MULTILATERAL FUND TARGETS**

### **1. CONTEXT**

UNIDO prepared its 3-year rolling business plan for 2010 to 2012 based on ExCom decision 56/3, 56/5 and 56/16 on the 3-year phase-out plan, model three year plan, compliance-oriented model, and the status/prospects in achieving compliance prepared by the Multilateral Fund Secretariat, the annual tranche submission delays, as well as the Government requests received from Article 5 countries. An interagency coordination meeting was held on 28-29 January 2010 in Montreal, Canada. Considering the draft business plans submitted by all implementing and bilateral agencies and the compliance-oriented model, the Secretariat identified the countries that are in need of assistance in order to comply with the various phase-out schedules, for which no activities were included in the business plans of implementing agencies and pointed out cases where a duplication of activities occurred among the various implementing agencies.

The 2010-2012 model rolling three-year phase-out plan adopted at the 59<sup>th</sup> Meeting of the ExCom was used as a flexible guide for resource planning for the 2010-2012 triennium as well as for 2013 and 2014. For countries, where more updated consumption data was available, resources were planned according to their actual needs.

It is also largely inspired from the historical decision of the 19<sup>th</sup> Meeting of the Parties agreeing on the acceleration of the phase-out of HCFCs, and the relevant ExCom decisions on HPMPs and HCFC investment and demonstration projects.

It is to be noted that there is uncertainty about the HCFC consumption levels in 2011 and 2012. Furthermore, in the absence of an agreement on relevant HCFC policies and costs, the funding required for the HCFC phase-out to achieve 2015 is based on the Fund's rolling model business plan and the cost-effectiveness figures used for CFC phase-out in the different sectors, adjusted on a metric tonnes basis.

During the preparation of projects, the remaining absent data or discrepancies, if any, will be collected or clarified. The current Business Plan, however, reflects only those phase-out targets, which according to our present information, can be realistically addressed through investment and non-investment activities.

Moreover, during the preparation of the Business Plan, we had to take into consideration our experience and information collected. However, the indicated amount is only forecast for planning purposes. The fluctuation of possible costs is very high depending on sector, selected technology, production capacities and any relevant future decision of the ExCom, in particular on the cut-off date, second-stage conversion, etc.

## 2. RESOURCE ALLOCATION

In 2010, UNIDO is planning to submit US\$ 71.6 mio worth of projects, the majority of which is focused on phase-out of HCFCs. During 2010, UNIDO will submit the remaining ten final tranches of NPPs and TPMPs and will finalize those ongoing activities addressing CFC phase-out. Special attention will be given to the acceleration of the project implementation of CFC phase-out projects in the MDI sector.

Table 1 below summarizes the resource allocation of UNIDO's 2010 Business Plan. It is to be noted that there is uncertainty about the HCFC consumption levels in 2011 and 2012. Furthermore, in the absence of an agreement on relevant HCFC policies and costs, the funding required for the HCFC phase-out to achieve 2015 is based on the Fund's rolling model business plan and the cost-effectiveness figures used for CFC phase-out in the different sectors, adjusted on a metric tonnes basis.

HCFC phase-out activities form large part of UNIDO's 2010 Business Plan. Investment project are under preparation for the conversion of manufacturing enterprises to HCFC-free alternatives. As a result, demand for servicing of HCFC-based equipment will reduce in the long run. Furthermore, UNIDO, in cooperation with bilateral agencies, is preparing demonstration projects for the introduction/validation of new climate-friendly alternatives. Preparation and implementation of these demonstration projects will provide essential and useful information for the countries concerned as well as for the Multilateral Fund. New technological developments will be promoted to ensure sustainable conversion of HCFC-based manufacturing enterprises.

UNIDO will continue to provide assistance to countries to phase-out methyl bromide. Furthermore, renewal of institutional strengthening projects and technical assistance activities form part of UNIDO's 2010-2014 Business Plan.

The details of UNIDO's 2010-2014 rolling Business Plan are spelled out in the database, Annex 1 and Table 2.

The total budget for 2010 for the above activities is US\$ 71,966,410 plus US\$ 1,970,766 core unit funding for UNIDO.

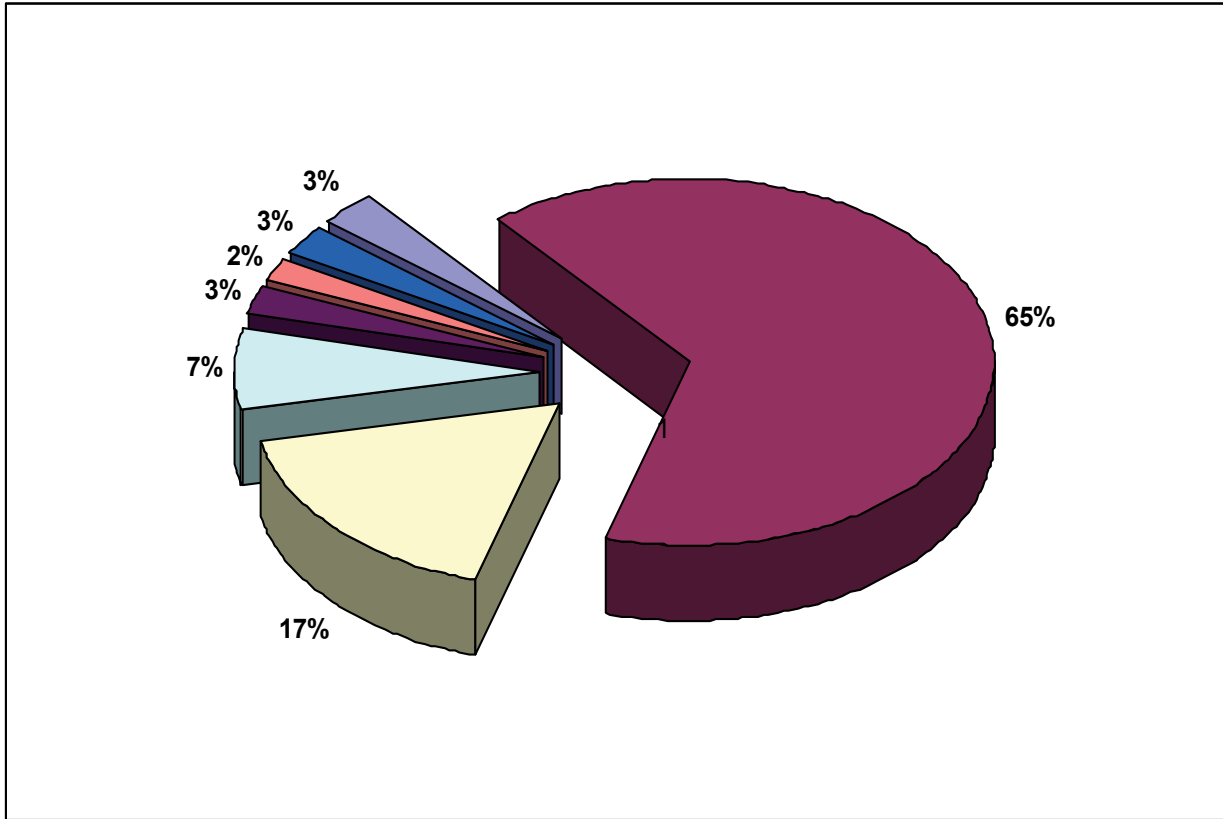
In addition, UNIDO is in contact with UNEP on HPMPs, where UNEP is the single implementing agency, to agree on a final list of countries (in agreement with the countries concerned), where the HPMP should be implemented jointly by UNEP and UNIDO. The HPMP will be submitted by UNEP and the investment component will be implemented by UNIDO. Funding for these activities are for the time being in UNEP's business plan to avoid any overlaps.

**Table 1. Resource allocation**

| <b>Pos.</b> | <b>Type/sector</b>  | <b>US\$<br/>(incl. support cost)</b> | <b>Share of Business<br/>Plan allocation</b> |
|-------------|---|--------------------------------------|--|
| (a)         | Consumption sector (investment and phase-out projects excl. MeBr and HCFCs) incl. forward commitments | 2,160,583                            | 2.9 %  |
| (b)         | Consumption sector (HPMPs and HCFC phase-out projects)  | 48,353,150                           | 65.4 %                                       |
| (c)         | Demonstration projects (ODS destruction and HCFC phase-out)   | 12,736,035                           | 17.23 %                                      |
| (d)         | Methyl bromide projects (investment, phase-out and TAS) including forward commitments                 | 5,211,454                            | 7.1 %  |
| (e)         | Preparation of investment and demo projects   | 1,961,875                            | 2.6 %  |
| (f)         | Non-investment projects (INS and TAS, excluding MBR)  | 1,543,314                            | 2.1 %  |
| (g)         | Funding of core unit  | 1,970,766                            | 2.7 %  |
|             | <b>Total</b>  | <b>73,937,176</b>                    | <b>100%</b>                                  |

The details of the 3-year rolling Business Plan are spelled out in the database, Annex 1 and Table 2.

Resource allocation as per Table 1



The details of the phase-out impact of UNIDO's activities can be found in the last table of the business plan.

### **3. GENERAL OVERVIEW ON ASSISTANCE TO COUNTRIES IN NON-COMPLIANCE**

UNIDO's three year-rolling Business Plan for 2010-2012 is driven by the compliance needs of Article 5 Countries. In 2010, the implementation of UNIDO's ongoing activities supported by the Multilateral Fund in countries with decisions on non-compliance such as Bosnia and Herzegovina, Islamic Republic of Iran, Mexico and Somalia succeeded in bringing some countries back into compliance or sustaining the compliance of other countries.

Through the presented business plan, the Organization focuses on providing assistance to countries in non-compliance as well as those in potential non-compliance with regard to their obligations towards the Montreal Protocol. The 20<sup>th</sup> meeting of the Parties addressed non-compliance by Bosnia Herzegovina through a new decision. It also addressed Countries that were noted to be in non-compliance during prior meetings of the parties and are now in compliance. UNIDO's ongoing and newly planned activities in those countries for 2010 are described below:

#### **Bosnia and Herzegovina**

Bosnia and Herzegovina submitted its ODS data for 2007, reporting 22.1 ODP tonnes and zero consumption of methyl bromide and methyl chloroform. The data reported by the Party is inconsistent with its obligation under decision XV/30 to reduce CFC consumption to no greater than 3.0 ODP tones. The data for methyl bromide and methyl chloroform place the Part in compliance with its commitment contained in decision XV/30 and XVII/28.

UNIDO is implementing an ODS phase out management plan in BHE. All tranches of the NPP were approved already by the Executive Committee. The Party had introduced an ODS import export licensing system from 2009 and enforcement of the import/export licensing system along with the implementation of the project activities under the NPP are expected to improve the compliance prospects for Bosnia Herzegovina in 2009 & 2010.. In 2010, UNIDO will continue its efforts to implement the project activities on time despite the difficulties faced at the country level.

#### **Islamic Republic of Iran**

In 2007, The Islamic Republic of Iran reported data of zero for its consumption of carbon tetrachloride. The reported data places Iran back in compliance with its commitment to reduce CTC consumption in 2007 to 11.6 ODP tones as contained in decision XIX/27.

By the time of the 43rd meeting the Islamic Republic of Iran had submitted its ozone-depleting-substance data for 2008, reporting consumption of zero ODP-tonnes of carbon tetrachloride. Those data placed the Party in compliance with its commitment contained indecision XIX/27

#### **Libyan Arab Jamahiriya**

The Libyan Arab Jamahiriya had committed itself, as recorded in decision XVII/37, to reducing consumption of the Annex A, group II, controlled substances (halons) to no greater than zero ODP-tonnes by 1 January 2008, save for essential uses that might be authorized by the Parties. The Party had been urged, as stated in recommendation 42/19, to submit to the Secretariat its data for 2008 in accordance with paragraph 3 of Article 7 of the Protocol, and preferably no later than 1 September 2009, in order that, at its forty-third meeting, the Committee might assess the Party's compliance with its commitments contained in decision XVII/37.

During the current meeting the Libyan Arab Jamahiriya submitted its ozone-depleting-substance data for 2008, reporting consumption of zero ODP-tonnes of halons. Those data placed the Party in compliance with its commitment contained in decision XVII/37.

UNIDO is currently implementing a halon management plan, a national CFC phase out plan as well as a methyl bromide phase out project. The implementation of the various project activities is expected to allow the Party complies with its phase out obligations as stipulated in the plans of actions. However it is to be noted that the implementation of the halon-banking project is pending the nomination of a national center to host the halon bank under this project.

### **Saudi Arabia**

Saudi Arabia had reported consumption of the Annex A, group I, controlled substances (CFCs) of 657.8 ODP-tonnes in 2007. That represented a deviation from the Party's obligation under the Montreal Protocol to limit its consumption of CFCs to no greater than 15 per cent of its consumption baseline for that substance, namely, 269.8 ODP-tonnes. In correspondence dated 13 September 2009, Saudi Arabia had submitted to the Secretariat its response to recommendation 42/31, outlined in document NEP/OzL.Pro/ImpCom/43/INF/3/Add.1. The Party had said that it had originally been classified as a Party not operating under paragraph 1 of Article 5. After its reclassification as a Party so operating, however, it had been denied access to the Multilateral Fund and had therefore had to meet its Protocol obligations using its own capacity and resources. The Party had nevertheless complied with the 1999 freeze and 2005 reduction targets.

The remaining CFC consumption was mainly in the servicing sector and phasing it out had proved very challenging. After repeated requests for support from the Multilateral Fund, assistance had been provided through a national phase-out plan approved at the fifty-third meeting of the Executive Committee, in November 2007. According to the agreement associated with that plan, Saudi Arabia would be able to return to compliance by 2009

In 2010, UNIDO will continue its efforts to implement the project activities on time

### **Somalia**

Somalia's compliance with the provisions of decision XX/19 had been considered at the Committee's forty-second meeting. According to that decision, the Party had committed itself to introducing a system for licensing the import and export of ozone-depleting substances, including import quotas, by the end of December 2009. By the time of the forty-second meeting, the Party had informed the Secretariat that the drafting of legislation on a licensing system had begun in May 2009 and that relevant information would be submitted as soon as possible.

Somalia had submitted to the Secretariat draft regulations on the import and export of ozone-depleting substances. At the time of the last meeting the Secretariat was working with the Government of Somalia to facilitate the adoption of those regulations.

UNIDO included in the current BP the preparation of the TPMP investment component in cooperation with UNEP

#### **4. PROGRAM EXPANSION**

In the years 2010 to 2012 UNIDO aims to enhance its assistance to Article 5 countries by strengthening its project portfolio through the finalization and implementation of HCFC phase-out management plans and HCFC phase-out investment and demonstration projects, as well as in the finalization of already approved multi-year agreements.

The main objective of this Business Plan is to assist Article 5 countries in meeting their obligations under the Montreal Protocol. It is expected that tonnages to be eliminated through forward commitments, ongoing and planned activities will meet the Montreal Protocol phase-out of 2010 and in the cases of accelerated HCFCs and methyl bromide phase-out activities the 2015 reduction target as well.

The analysis of the activities of our Business Plan reveals the following main trends:

- The major share of UNIDO's MP project portfolio consists of HPMP's and HCFC investment component activities in different sub-sectors;
- Forward commitments cover only 6% of UNIDO's 2010 Business Plan;

In 2010, UNIDO will continue to cover all the regions (Latin America and the Caribbean, Africa, Asia and Pacific, Europe) with planned activities in various sectors and countries (including non-investment activities and project preparation).

The following section summarizes the activities contained in UNIDO's 2010 Business Plan sorted by region.

##### **Africa**

In Africa, twenty-two (22) countries, with a value of US\$ 6,500,000 will be submitted in 2010. The main concentration will be in HPMP, HCFC investment projects, ODS destruction demonstration project, fumigation project and institutional strengthening project.

##### **Asia**

In Asia, nineteen (19) countries, with a value of US\$ 46,900,000 will be submitted in 2010. This represents over 60% of the total Business Plan for 2010. Among these, HCFC management plans, HCFC investment projects (including project preparation), technical assistance project, demonstration projects for HCFC phase-out, institutional strengthening projects and two ODS destruction demonstration project.

##### **Europe**

In Europe, nine (9) countries, with a value of US\$ 3,250,000 will be submitted in 2010. The main focus will be in HPMP, HCFC investment projects (foam sector) and institutional strengthening project.

##### **Latin America and the Caribbean**

In Latin America and the Caribbean Region, nine (9) countries, with a value of US\$ 15,000,000 will be submitted in 2010. The main attention will be beside the HPMP preparation, in preparation and submission of HCFC investment projects in different sectors (including one solvent/aerosol project), ODS destruction demonstration project, fumigation project and institutional strengthening project.

### **ODS disposal pilot projects**

Following the Decision XX/7 of the Meeting of the Parties to Montreal Protocol, related to the Environmentally sound management of banks of ozone-depleting substances, is requesting both IAs and MLF to consider as a matter of urgency commencing pilot projects that may cover the collection, transport, storage and destruction of ozone-depleting substances, UNIDO included in the 2010 Business Plan and Work Programme correlated preparatory activities.

The future pilot projects for ODSs destruction will include, but not be limited, to the following activities:

- unwanted ODS inventory
- system for collection and transportation of ODS waste
- selection of technologies and destruction methods
- changes of national legislation and regulations to support destruction activities
- training programmes to develop the country capacity in dealing with ODS destruction issues and unwanted future ODS stockpiling
- consideration of potential different funding sources (as CDM and voluntary markets, or other financial instruments)

In 2010, demonstration projects for Mexico and China will be submitted. UNIDO is teaming up with bilateral agencies (France, Italy and Japan) for the preparation and implementation of several of its ODS destruction projects.

UNIDO is planning to implement these projects in conjunction with other toxic & hazardous waste destruction initiatives, which are being formulated and implemented by UNIDO in a number of countries. This would enable a better integration into the waste management model, cost-effective and sustainable operation of destruction facilities in many countries over a longer period of time.

### **Facility for resource mobilization funding**

UNIDO's proposal takes into account the negotiations on the issue started in Montreal during the coordination meeting on 26-27 January 2009 and discussed at the MOP and ExCom level during the year 2009. The main objective of the project is to define a suitable scheme for mobilizing sources for the co-financing of ODS-related projects.

The below considerations have been taken into account in developing this proposal:

- MLF has the mandate to provide funding and assistance for covering the incremental costs relating to the ODS phase out.
- MLF and IAs have a long history of successful cooperation with A5 countries conversion projects at national and enterprise level (more than 5000 projects have been implemented so far). MLF has been successful in building partnership with A5 countries and in developing a good system to deal with big number of national and individual projects in a very smooth and cost effective manner.
- MLF has been successful in achieving remarkable results in the reduction of GHG emissions as a by-product of ODSs phase out projects. However, the generation of climate benefits from additional efforts is not mandated by the MP and therefore associated costs are not covered by MLF.
- Despite none of the ODS is included in the list of the substances regulated under the Kyoto Protocol, some ODS have a remarkable GWP impact. Moreover, some of the most promising alternatives for the replacement of HCFCs are in the basket of the Kyoto substances (i.e. HFCs).
- Methodologies have been already approved for the emission reduction of HFC at the manufacturing level (i.e. HFC in foam).

- GEF provides funding for projects in the thematic areas of interest, such as those relating to the UNFCCC, UNBDC and UNDC. Projects aiming at energy saving and increase the energy efficiency are usually funded.
- GEF operates through national Focal Points (NFP) within governments and in most cases the projects proponents or counterparts are governmental entities (Energy Ministry, Agricultural Ministry, transportation Ministry, etc).
- GEF has limited access/experience in working with individual companies in the private sector especially if they are SMEs.
- GEF confounding requirements made more complex for developing countries to fully benefit from the GEF. And this is more apparent when SMEs were concerned.
- Partnership between the GEF and MLF would serve the purposes of both bodies and make use of the strength of each other specifically in the HCFCs phase out era as well as in the destruction of unwanted ODSs, taking into account the decisions of the MOP and ExCom to adopt alternatives that generate climate and environment co benefits where applicable.
- Strategies for leveraging funds from the GWP emission reduction bodies (both compliance and voluntary markets) could be further explored.

UNIDO plans to develop concepts and methodologies for additional climate benefits of HCFC phase-out projects and ODS destruction activities.

## **1. Replacement Scheme Methodology**

To develop a methodology for a replacement scheme for old domestic and industrial appliances relying on ODSs. The early replacement would ensure environmental benefits both to the Ozone recovery and reduction of GWE. The aim would be to develop a scheme where ODS appliances past a certain cut-off age (on the basis of significantly reduced energy efficiency) could be substituted with newer, energy efficient models using non-HFC alternatives. UNIDO can leverage financing from other bodies eg. GEF, CTF or national programs to pay for the replacement portion and the related costs of transportation and collection, while the destruction of the ODS would be covered according the MLF DEMO projects. Gains could be realized through the reduction in energy bills, with the difference collected by the government over a period of time and fed back into the scheme for further co-financing of ODS destruction projects. This would ensure the continuity of the scheme and reduce further reliance on the MLF. The methodology would work out the energy efficiency gains from replacement and also the gains from reduction in energy bills.

One should consider that in most developing countries, equipment manufacturers are not required to improve the energy efficiency of their products if it means additional costs to be borne by them either due to modification of process or material costs. As savings generated due to increased energy efficiency would be usually beneficial to end-users and subsequently to developing countries governments due to reducing of required investments in power generation to meet the national growing demands.

## **2. Development of a Programmatic CDM Methodology**

UNIDO also has the intention of developing a programmatic CDM methodology that would capture sectors where there is difficulty to create impact because of the diffuse nature of the sites e.g. refrigeration sector, transportation sector and activities in small/medium enterprises.

The core characteristics of programmatic CDM project activities are that they occur as the result of a deliberate program, that is either a public sector measure (voluntary or mandatory), or a private sector initiative, the program results in a multitude of dispersed actions that are induced by the program and would not occur but for the enactment of the program, the GHG reducing actions do not necessarily occur at the same time. The programme chosen could generate climate benefits through grants, soft loan schemes, or voluntary/mandatory efficiency standards for equipment or facilities

UNIDO is submitting a full proposal to the ExCom's consideration at its 60<sup>th</sup> Meeting under UNIDO's Work Programme.

## B. PERFORMANCE INDICATORS

The 47th ExCom Meeting has reviewed the weighting of the existing performance indicators. The new weightings, based on decision 47/51, are indicated in the below table.

| <b>Performance Indicator</b> | <b>Item</b>   | <b>Weighting</b> | <b>Target 2010</b>                     |
|------------------------------|---|------------------|--|
| Approval                     | Number of annual programmes of multi-year agreements approved   | 15               | 32                                     |
| Approval                     | Number of individual projects/activities (investment projects, methyl bromide, halon banks, TAS) approved         | 10               | 15                                     |
| Implementation               | Milestone activities completed/ODS levels achieved for approved multi-year annual tranches versus those planned   | 20               | 11                                     |
| Implementation               | ODP phased out for individual projects  | 15               | 45.1                                   |
| Implementation               | Project completion (pursuant to Decision 28/2 for investment projects) and as defined for non-investment projects | 10               | 18                                     |
| Implementation               | Policy/regulatory assistance completed  | 10               | N/A                                    |
| Administrative               | Speed of financial completion   | 10               | 12 months after operational completion |
| Administrative               | Timely submission of project completion reports   | 5                | On time                                |
| Administrative               | Timely submission of progress reports and responses unless otherwise agreed                                       | 5                | On time                                |

Based on Decision 49/4, the performance indicator on milestone activities for MYAs was changed as listed now in the above table.

## C. BILATERAL COOPERATION

The following Bilateral activities are or were implemented by UNIDO:

| <b>Bilateral Agency</b> | <b>Country</b> | <b>Sector</b>           | <b>ODP [tonnes]</b> | <b>Budget (without support cost) [US\$]</b> | <b>Status</b> |
|-------------------------|----------------|-------------------------|---------------------|---|---------------|
| France                  | Morocco        | Methyl Bromide          | 61                  | 673,973                                     | Completed     |
| France                  | Africa         | Chiller demonstration   | 0                   | 360,000                                     | Ongoing       |
| Germany                 | Egypt          | RMP                     | 0                   | 279,300                                     | Completed     |
| Italy                   | Cameroon       | Methyl Bromide          | 14.5                | 259,713                                     | Ongoing       |
| Italy                   | China          | Dom. Ref.               | 181                 | 1,950,000                                   | Completed     |
| Italy                   | China          | Methyl Bromide          | 534                 | 4,000,000                                   | Completed     |
| Italy                   | Congo          | Solvent sector          | 26.5                | 432,660                                     | Ongoing       |
| Italy                   | Mexico         | Methyl Bromide          | 70                  | 1,000,000                                   | Ongoing       |
| Italy                   | Morocco        | Methyl Bromide          |                     | 310,000                                     | Ongoing       |
| Italy                   | Romania        | Methyl Bromide          | 93.9                | 630,517                                     | Completed     |
| Italy                   | Senegal        | TPMP                    | 26.14*              | 355,000                                     | Ongoing       |
| Italy                   | Serbia         | Domestic refrigeration  | 94.9                | 1,683,135                                   | Completed     |
| Italy                   | Serbia         | CTC phase-out           | 2.6                 | 49,324                                      | Ongoing       |
| Japan                   | Africa         | Chiller demonstration   | 0                   | 700,000                                     | Ongoing       |
| Japan                   | China          | Refrigeration Servicing | 0                   | 4,000,000                                   | Ongoing       |
| Japan                   | China          | Compressors             | 75                  | 2,250,000                                   | Completed     |
| Japan                   | Indonesia      | Foam                    | 18.2                | 142,506                                     | Completed     |
| Japan                   | Indonesia      | Foam                    | 22.8                | 117,889                                     | Completed     |
| Spain                   | Brazil         | Methyl Bromide          | 65.4                | 580,390                                     | Completed     |
| Spain                   | Libya          | Methyl Bromide          | 55                  | 500,000                                     | Ongoing       |
| Spain                   | LAC            | Methyl Bromide          |                     | 147,400                                     | Ongoing       |
| Spain                   | Mexico         | Methyl Bromide          | 107.2               | 707,965                                     | Completed     |

\* UNEP is the lead implementing agency. The value includes the ODP to be phase out in the entire project.

Furthermore, it is to be noted that for 2010 and future years strengthened bilateral cooperation is planned with France, Italy and Japan on ODS destruction, HCFC investment and demonstration projects. The business plan value of these projects between 2010-2012 amount to US\$ 12 mio and are part of the bilateral agencies' business plans.

## **D. INITIATIVES TO ENSURE COMPLIANCE**

The status of ongoing projects is described in Annex I below. Successful and timely implementation of these activities is essential for the current compliance period.

Special attention is provided to countries that may previously have been in non-compliance and that have decisions outlining plans of actions with time-specific benchmarks for return to compliance, like Bosnia and Herzegovina, Islamic Republic of Iran and Mexico.

UNIDO has continued to provide supportive initiatives in order to ensure timely project completion of projects approved so far, and to facilitate compliance of the recipient countries with their MP obligations, which supported successful project implementation:

- Regular follow up of the implementation process is being done by the staff of the ozone office together with UNIDO's national and international consultants and project managers. This ensures that effective actions on critical issues such as resolving bottlenecks in site preparation, customs clearance, installation, commissioning and safety certification, monitoring of CFC-related equipment are taken.
- UNIDO is frequently attending Regional Network Meetings and respective workshops providing additional support to our counterpart countries.
- Communication and interaction between regional and country offices about the implementation process has ensured the smooth flow of project plans. As in previous years, directors of UNIDO regional and country offices are regularly briefed at UNIDO HQs on ongoing and possible future activities. They are involved in the implementation process and are following up the progress of the programmes. In turn, the representatives brief headquarter staff working in a specific country on the regular activities in the field and problems faced, if any.
- UNIDO also provides, when requested, support such as policy assistance, putting in place relevant legislation etc. Additionally, UNIDO project managers are visiting the project site, if definitely required.
- Based on recommendation of the Implementation Committee, additional assistance will be offered to the countries with delays in reporting of its ozone-depleting substance data

## **Annex I**

### **COUNTRY-BY-COUNTRY IMPLEMENTATION OF APPROVED ACTIVITIES**

#### **Albania**

##### **1. Phase-out of ODS**

The national ODS phase-out plan is implemented by UNIDO while UNEP is in charge of institutional strengthening. The delivered refrigeration demonstration unit for training of service technicians is operational. In order to ensure successful operation of the refrigerant recovery and recycling network component, it was agreed that first an enabling environment should be established by putting more emphasis on the reuse scheme, enforcement and code of practice before purchase and distribution of the equipment. Therefore, two national experts were recruited for preparing the code of practice as well as for updating the training manual and organizing training workshops. Purchase of equipment for vocational schools was initiated which was delivered in 2007 as requested by the Ozone Unit Manager. A joint mission with UNEP was fielded in 2007. A national consultant was recruited and international experts provided advice on technical matters and legislation. Procurement of tools and equipment for service workshop was done in 2008 and under the third tranche R&R equipment was ordered and delivered. The fourth and fifth tranches were approved at 54<sup>th</sup> ExCom Meeting. R&R equipment were distributed and the 3<sup>rd</sup> tranche completed in 2009. Translation and delivery of manuals plus training were carried out in 2009 under the 4<sup>th</sup> and 5<sup>th</sup> tranches while monitoring activities will continue in 2010. The 6<sup>th</sup> and 7<sup>th</sup> tranches were approved at the 58<sup>th</sup> ExCom meeting. International Experts were recruited for the Incentive component and additional equipments were purchased. A training workshop and delivery of equipment is expected in 2010.

##### **2. Phase-out of HCFCs**

The preparatory funds for the HPMP were approved at the 55<sup>th</sup> ExCom meeting. National consultants were recruited in 2008 to conduct HCFC survey and to update the existing legislation. In 2009 the HCFC survey was completed, data was analyzed and priority setting started. Additional funding was requested at the 57<sup>th</sup> ExCom to continue the activities. A stakeholders' workshop will take place in 2010 to disseminate the results of the survey. A local institution will be contracted to prepare the country strategy and the HPMP.

#### **Algeria**

##### **1. Phase-out of CFCs**

The terminal umbrella project in the commercial refrigeration sector was approved by the Executive Committee at its 44<sup>th</sup> meeting. Foaming machines were cleared from customs and delivered to the end-users in 2009. The installation of the foaming machines will be completed in 2010 and training on the development of the prototypes will be carried out.

The first tranche of the National ODS Phase out Plan of Algeria was approved at the 53<sup>rd</sup> Executive Committee Meeting. Implementation of the project started beginning 2008. Survey of the refrigeration service sector as well as the foam sectors are being completed by the National Ozone Office (NOU). A national expert for the review and update of the ODS legislation was recruited. The bidding for the update of the refrigeration curricula and the preparation of the Code of Practice was completed. Equipment purchased for the service workshops arrived in 2009. Equipment for the foam companies is under delivery. Update of the refrigeration curricula and preparation of the Code of Practice were completed. Training of customs master trainers took place in October 2009. As per the request of the ExCom, an additional verification report will be submitted to the 61st ExCom regarding the consumption of all ODS covered in the Agreement focusing in particular on the recording of imports at customs and the process of forwarding that data to the National Ozone Unit. Additional service equipment will be purchased upon receipt of already ordered equipment, completion of training of service technicians and distribution of the equipment to service workshops. The country is in compliance with the Montreal Protocol obligations. During 2010 several awareness raising activities are planned and all activities under the NPP will be completed.

## **2. Phase-out of Methyl Bromide**

A <sup>1</sup>technical assistance project to phase out methyl bromide in pulses disinfestations was approved by the 50<sup>th</sup> Executive Committee. The project has an impact of 1.6 ODP tonnes. A Study Tour for some Algerian technicians was done. Training and the last set of equipment was procured and the project was successfully completed in December 2008.

## **3. Phase-out of HCFCs**

Preparatory funding for a HCFC Phase-out management plan was approved at the 55<sup>th</sup> ExCom meeting. Recruitment of a national team for the preparation of the HPMP was completed in 2009. Collection of information from the manufacturing sector is ongoing. A study tour to Italy was implemented in December 2009 to collect information on existing technologies. Additional funding was approved at the 58<sup>th</sup> meeting and monitoring of project activities will continue in 2010. Preparatory funding for investment activities was approved for the polyurethane foams sector and refrigeration and air-to-air air-conditioning sector at the 59<sup>th</sup> ExCom. Based on the results of the survey, investment activities will be prepared for both sectors in 2010.

## **4. Pilot Project on ODS Waste Management and Disposal**

Preparatory funding for a pilot project for destruction of waste ODS was approved at the 59<sup>th</sup> ExCom meeting. A survey will be carried out in 2010 to collect information on the availability of waste CFCs for destruction as well as technologies in place in various sectors. An assessment of the destruction facilities in Algeria is also planned for 2010.

## **Argentina**

### **1. Phase-out of CFCs**

The national CFC phase-out plan was approved at the 42<sup>nd</sup> ExCom Meeting and the first, second and third funding tranches were released. The fourth tranche was approved at the 53<sup>rd</sup> ExCom. In 2007 training of technicians continued. Equipment for 2 refrigeration and 9 R&R centers were purchased. Technicians received tools and R&R<sup>2</sup> equipment. End user sector survey continued. The R&R and refrigeration centers started their operation in 2008. The end user sector activities were continued. Further training and equipment for technicians were provided. Training of customs officers was carried out. In 2009 activities focused on the end-users sector and ODS destruction as well as monitoring of project performance.

### **2. Phase-out of Methyl Bromide**

According to the revised agreement approved by the 45<sup>th</sup> Executive Committee, the project in strawberry, protected vegetables and cut flower production will be mainly implemented until 2010 leaving a small consumption till 2015. The project will continue with the training and secure the compliance with the phase out chronogram. The project is expected to be complete in January 2015. As per Decision 45/13, before the end of 2010, UNIDO and Argentina have to submit a full report on the implementation of the phase out plan together with the status report on the alternatives to methyl bromide in the strawberry sector available in Argentina. In addition, at that time, Argentine would consider the possibility of completing the phase out of methyl bromide earlier than 2015. The ban of import will be put in place once the total phase out is accomplished.

### **3. Phase-out of Solvents (CFC, CTC and TCA)**

The plan for phase-out of ODS in the solvent sector was approved in December 2003 (41<sup>st</sup> ExCom). UNIDO issued several contracts with local Argentinean companies, which provide for consultancy services on selection material of alternative solvents and conduction of compatibility tests. Two Solvent training workshops (i.e. for textile industry on the laboratory use) were conducted in December 2007. Identification of new or additional companies consuming ODS was made in 2008 and activities for the phase out of TCA have been prepared. In 2009 laboratory uses were addressed. The project deals with TCA phase out in SSIs, therefore, one additional year for project implementation is needed. The phase out of CTC/TCA in labs will be continuing in 2010 and the total quantity of 1.0 MT of CTC is planned to be phased out in lab applications. Still the project will be trying to identify the TCA used in solvent formulation and it is expected that 5.0 MT of TCA would be identified. Therefore, a new survey of TCA consuming companies will be conducted. It is expected that the last quantity of TCA will be identified to enable UNIDO to approach local companies and make the phase out of TCA.

### **4. Phase-out of HCFCs**

Funding was approved at the 55<sup>th</sup> ExCom meeting for the preparation of a HCFC Phase-out management plan. In 2009, HCFC survey for the refrigeration and AC sector (RAC) was completed and data was analyzed. A draft HPMP for the RAC sector was prepared. UNIDO is cooperating implementing agency and is responsible for the refrigeration and AC sectors. Final stakeholders' workshop is planned for the second quarter of 2010. HPMP is expected to be submitted to the 62<sup>nd</sup> ExCom Mtg.

## **Benin**

### **Phase out of CFCs**

The TPMP was approved at the 55<sup>th</sup> ExCom Meeting and the first tranche was released. UNEP is the leading implementing agency while UNIDO is cooperating. In October 2008 a joint UNEP UNIDO mission was organized to Benin where the implementation modalities were agreed on. The second tranche was approved at the 59<sup>th</sup> meeting on the understanding that UNEP and UNIDO will submit a progress report on the implementation of the 2009-2010 annual programme to the 62nd Meeting of the Executive Committee. In 2009, equipment and tools were purchased for 3 training centers to train technicians on retrofit to HC technologies. 14 trainers and over 200 technicians were trained on good service practices and retrofit to HC technology.

Furthermore, equipment and toolkits were purchased for bigger service workshops. In 2010, remaining funds under the first tranche and funds under the second tranche will be utilized to equip further service workshops with basic tools and spare parts not available on the local market, allowing the service workshops to retrofit CFC-based refrigerators to HCs in a safe manner.

## **Bosnia & Herzegovina**

### **1. Phase-out of CFCs and TCA**

The national ODS phase-out plan was approved at the 41<sup>st</sup> ExCom Meeting. The first funding tranche was completed in December 2006 and the project is progressing with the second tranche.

Equipment to phase out TCA at the only ODS consuming company was ordered, delivered, installed and commissioned, resulting in a total phase-out of 1.1 ODP tonnes of TCA in 2006. The request for release of the third tranche was submitted and approved at the 52<sup>nd</sup> ExCom Meeting, following the receipt of the 2005 verification report on the ODS consumption. The training of trainers programme for the refrigeration service technicians is in progress. The section of training centers has been completed and the section of training equipment is being coordinated with the NOU. Due to the unsettled problem with the customs clearance and VAT exemption of imported equipment the training the trainers workshop was put on hold as well as the training of service technicians. For 2010, no activities can progress until the pending issue of VAT exemption is solved.

### **2. Phase-out of Halons**

At the 42<sup>nd</sup> ExCom Meeting, a technical assistance project was approved to phase out the entire halon consumption in the country. Halon awareness and training workshop was carried out in February 2007. The annual activities for 2007 were coordinated with the NOU, which was to confirm the selection of the beneficiary for halon R&R equipment. The scope of international and local equipment procurement was finalized. Bidding still could not start in 2009, since the issue of VAT exemption and customs clearance has not yet been settled by the Ozone Office. In December 2009, the NOU found an interim solution; persuading the counterpart to pay the VAT for the equipment to be ordered with a subsequent reimbursement of the costs involved. Bidding for the equipment will immediately start and project is expected to be completed upon installation and commissioning.

## **Burundi**

### **Phase-out of CFCs**

The TPMP was approved at the 55<sup>th</sup> ExCom Meeting and the first tranche was released. UNEP is the leading implementing agency while UNIDO is cooperating. In 2009, as a result of UNIDO's and UNEP's continuous follow-up, the new Ozone Officer contacted UNIDO and UNEP (lead agency) requesting the

agencies to undertake a joint mission to Burundi to expedite the TPMP. As a result of the mission, the local situation and requirements were identified; technical specifications for equipment were prepared for bidding. Equipment and tools will be delivered to Burundi in 2010. Second tranche will be submitted to the 61st ExCom meeting and implementation of the second tranche will be accelerated

## **Cameroon**

### **1. Phase-out of CFCs and TCA**

A terminal CFC/TCA phase-out management plan was approved at the 50<sup>th</sup> Executive Committee. The first and second funding tranches were released at the 50<sup>th</sup> and 54<sup>th</sup> ExCom Meeting respectively. In 2007 the PMU was established. The solvent component phasing out TCA has been successfully completed during 2008. In addition training of technicians and custom officers as well as a supplementary R&R programme was implemented. In 2009, additional training of technicians focusing on drop-in technologies and alternatives, extension of customs training, enforcement of legislation and public awareness activities took place. A 3<sup>rd</sup> tranche was approved at the 58<sup>th</sup> meeting. . A contract will be prepared for the remaining activities and monitoring will continue in 2010.

### **2. Phase-out of HCFCs**

Funding for the preparation of a HCFC phase-out management plan was approved at the 55<sup>th</sup> ExCom meeting. The draft of the HCFCs survey compiled by the national expert is under verification by the NOU. Local missions of the national expert to end-users took place July - August 2009. Stakeholders' consultation workshop is planned for first half of 2010. HPMP is to be finalized in view of submission to the 62<sup>nd</sup> ExCom. Additional funding was approved at the 58<sup>th</sup> ExCom. National expert and international expert will be contracted in 2010 for additional activities in connection to the HPMP preparation.

## **China**

### **1. Phase-out of CFCs**

Under the domestic refrigeration sector plan, the conversion of all domestic refrigeration companies under this project was completed. Official commissioning also took place, which enables transfer of titles to the enterprises. Technical assistance to compressor manufacturing enterprises was undertaken in 2008. Ban of the use of CFCs in the sector was issued. A TÜV workshop based on plant inspections was performed in 2008. Technical assistance in safety and monitoring and verification of the project performance will continue until end 2010 to ensure sustainability of the project.

The refrigeration servicing sector plan was approved at the 44th ExCom. After completion of the first four tranches the fifth tranche was approved at the 56th ExCom Meeting. The verification of national consumption was submitted to and accepted by ExCom each year. The implementation plan is being completed without delay. During 2008 the training of technicians has continued and technicians were provided with recovery and service tools. During 2009 the training of technicians was finished and 1,000 more were trained totally in MAC sub-sector. Recovery and recycle machines were distributed and this project was finished in MAC. Training centers for the domestic and industrial refrigeration were established. The following activities are planned for 2010:

- a. Refrigerant recovery and recycling for retired ship disposal
- b. Refrigerant recovery and recycling for ICR sector
- c. Establishment of reclamation centers

The sector plan for the entire phase out of CFCs in the MDI sector in China was approved at the 56th ExCom Meeting. Implementation modalities were agreed upon in December 2008. Special Working Group was established in April, 2009, consist of SFDA, MEP/FECO, and experts. A contract with UNIDO was signed on July, 2009. In 2010, contract will be signed with enterprises to cancel inactive licences. Enterprise training on registration of new products; development of the monitoring information system; on site verification of CFC users; formulation of the CFC alternative technical standards and formulation of the national Transition Strategy will take place.

## **2. Phase-out of Methyl Bromide Consumption Sector**

The second phase of the national methyl bromide consumption phase out plan was approved at the 52<sup>nd</sup> ExCom Meeting, the 3<sup>rd</sup> tranche of which was released at the 55<sup>th</sup> ExCom Meeting. Equipment procurement for the tobacco seedling sector was undertaken, in time for the crop season 2008. The construction and installation of all 17 greenhouses centres in tobacco sector have been completed and put into operation. 15 of these regions' technology transfer centres had been jointly checked and accepted by MEP and UNIDO. The phaseout activities on strawberry, cucumber and ginger in agriculture sector have been carried out in Hebei and Shandong province which achieved the phaseout target of the 2008 agriculture workplan. The project was completed by December 2009. A 4<sup>th</sup> tranche was released at the 58<sup>th</sup> ExCom meeting. Further training of farmers in the tomato, ginger and strawberry sectors and general awareness on MB present policy and future MB ban will be initiated in 2010. Procurement of alternative fumigants equipment and continuous monitoring and evaluation will take place.

## **3. Phase-out of Methyl Bromide Production Sector**

The sector plan for the methyl bromide production sector was approved at the 47<sup>th</sup> ExCom Meeting. A subcontract was issued to SEPA in March 2006. The training plan was implemented and a working arrangement contract was signed with the counterpart companies. The following activities have been implemented in 2008: a) Monitor the methyl bromide production, b) inspect the manufacturers and perform technical verification, c) management of production quota and d) signed agreement with producers for compensation against production reduction quota achieved and verified. The 2006 and 2007 production quotas were verified during 2008 and compensated accordingly. The total production target agreed with the MLF had been achieved. The second tranche was approved at the 56<sup>th</sup> ExCom Meeting. Methyl bromide production audit and supplementary verification of the methyl bromide feedstock use for the period 2005-2007 have been completed. Production data are in line with the agreement. FECO conducted record management for MB feedstock use in order to strengthen the supervision of MB feedstock use in China in May 2009. Contract will be finalized with MB producers in 2010 for the period 2008-2010 and draft contract for the period 2011/2013. New policy will be drafted for ODS and QPS management.

## **4. Phase-out of HCFCs**

Funding for the preparation of a HCFC phase-out management plan for the room air-conditioning sector was approved at the 55<sup>th</sup> meeting of the ExCom. Inception workshop for the HPMP preparation took place in December 2008 with the participation of all implementing and bilateral agencies involved in the China HPMP. Detailed plan of action was agreed upon with at least 2 coordination meetings per year. UNIDO's sub-contract with MEP/FECO was signed end November 2008. Detailed survey of the RAC sector as well as data analysis was successfully completed in 2009. The 2nd HPMP coordination meeting took place in September 2009 with the participation of all implementing and bilateral agencies involved in the HPMP for China. Draft HPMP for the RAC sector is expected for review by the first quarter of 2010. Demonstration project for propane-based compressor and RAC system is being developed for submission to the 61st ExCom meeting, which is of utmost importance for the final technology selection.

Funding for the XPS foam sector was also approved at the 55<sup>th</sup> meeting of the ExCom. The organization of expert meeting on technologies took place in 2008. GTZ is lead agency. Expert meeting on technology selection was organized in September 2009. As a result of the meeting, MEP/FECO requested UNIDO to submit a demonstration project to the ExCom's approval. Funding request for a demonstration project with HC technology will be submitted to the 60th ExCom Meeting in 2010. UNIDO will contribute to the finalization of the HPMP for the XPS sector under the lead of GTZ.

## **Colombia**

### **Phase-out of Methyl Bromide**

A technical assistance project for the phase out of the remaining methyl bromide consumption in Colombia was approved at the 55<sup>th</sup> ExCom Meeting. In December 2008 an international consultant was recruited to work on the alternatives in cooperation with a national agro institute. In 2009, a speed box was purchased for laboratory test. The machine is installed in the National Agro Institute ICA premises and national expert hired under the project is carrying out related tests. The project was successfully completed in 2009.

## **Congo, Rep. of**

### **Phase-out of CFC**

The TPMP was approved at the 54<sup>th</sup> ExCom with UNEP as lead implementing agency. Implementation modalities have been agreed upon. Technical specification for equipment purchase was prepared. Equipment was purchased and delivered in 2009. Project is now completed.

## **Cote d'Ivoire**

### **1. Phase-out of CFCs**

At the 46<sup>th</sup> Executive Committee Meeting, a terminal aerosol sector project was approved for UNIDO with a total phase-out of 43.4 ODP tonnes of CFCs. Despite UNIDO's efforts to redeploy the equipment from Alkaloid, Macedonia (cancelled aerosol project) to COPACI, the redeployment was not successful. In addition, all attempts to restart implementation of the project have failed. The government requested cancellation of the project.

A TPMP was approved at the 45<sup>th</sup> ExCom Meeting with UNEP as lead implementing agency. Project implementation activities have been coordinated with the NOU and UNEP. The second tranche was approved by the 58th ExCom in July 2009. Implementation plan for 2009 and 2010 was agreed upon. Contract for the delivery of part of the equipment was issued. Delivery of equipment as well as procurement of additional R&R equipment and service tools will take place in 2010. TPMP is expected to be completed in 2010.

An investment project for ODS phase out in 50 existing centrifugal chillers units was approved at the 57<sup>th</sup> ExCom meeting. In 2009, a national institute was identified to re-evaluate the inventory of chillers in Cote d'Ivoire and propose ways of how to link the implementation of the project to the ongoing regional chiller project in Africa. The institute identified requested a quarter of the project budget to re-evaluate the chiller inventory and propose ways to link it to the chiller project. UNIDO is searching for new national experts to perform the required task. It is to be noted that no project document was given to UNIDO with the transferred project.

## **Croatia**

### **1. Phase-out of HCFCs**

Funding was approved for a HCFC phase-out management plan at the 55<sup>th</sup> ExCom meeting. Inception workshop for the HPMP preparation took place beginning December 2008. In 2009 the HCFC survey was completed and stakeholder consultations were organized for the HPMP preparation. Draft HPMP was prepared by end of 2009. Final stakeholder workshop is planned for early 2010, after which the HPMP will be finalized. Due to the 14 weeks deadline, the HPMP will be submitted to the 61st ExCom Meeting. Croatia adopted a much stricter phase-out schedule than specified by the MP. According to current law, 100% of HCFCs will have to be phased out by 1 January 2016. An earlier accession to the EU would require an even earlier phase out. For these reasons, the HPMP for Croatia will address complete phase-out of HCFCs.

An investment project in the foams sector was approved at the 59<sup>th</sup> ExCom meeting for the phase-out of HCFC-141b from the manufacturing of polyurethane rigid foam at Pavusin. A detailed implementation plan will be prepared in 2010 in order to ensure timely implementation of the project. Detailed technical specifications will be prepared and equipment will be ordered once the new factory site has been confirmed.

## **Cuba**

### **Phase-out of Methyl Bromide**

At the 44<sup>th</sup> ExCom Meeting, a total phase-out project in soil, substrate, storage and structure fumigation was approved. Equipment including soil fumigation equipment was purchased and delivered in 2008. Last equipment and training material were prepared and delivered in 2009 and the project was successfully completed.

## **Democratic People's Republic of Korea**

### **1. Phase-out of CFCs**

The refrigeration sector phase-out plan for Korea was approved in 2003. The project is progressing with the second tranche. Remaining equipment for the conversion of the compressor factory is being ordered. Procurement of additional safety equipment is planned. The project was completed in 2009.

UNIDO is in charge of the recovery and recycling component of the national CFC phase-out plan which was approved by the 47<sup>th</sup> Executive Committee and which is being implemented together with UNEP. Recovery and recycling equipment was purchased and additional tools and equipment are under procurement. Procurement of spare parts was initiated in 2009. A mission is planned for early 2010 to decide on the remaining activities.

### **2. Phase-out of CTC**

The CTC terminal phase-out plan was approved at the 41<sup>st</sup> ExCom Meeting. All projects in the Cleaning Solvent sub-sector and the four projects in the Process Agent sub-sector have been completed. Equipment was installed for the three pilot pesticide production plants. With respect to the glass-lined reactors the export of these goods to DPR Korea was not permitted. UNIDO reported to the 55<sup>th</sup> ExCom of this fact. The ExCom requested UNIDO to sell the equipment as specified in Decision 55/12 and report back to the 57<sup>th</sup> ExCom. UNIDO has sold the 11 reactors and a corresponding report was submitted to the 57th ExCom Mtg. Project was completed in 2009.

An additional tranche was approved at the 55<sup>th</sup> ExCom meeting. In 2008, the entire equipment was installed in DPRK for the all solvent cleaning projects, two fumigation projects and two pilot process agent plants, for the two remaining ones, which did not receive GL reactors, an option of "closure" projects is being considered according to the Decision of ExCom on alternative project solutions. No CTC is used any longer in DPRK. Remaining project funds are planned to be spent for organization of a process agent training workshop and a study tour to China to get acquainted with ODS -free process agent projects. Completion of this project is expected in 2010. UNIDO is experiencing some problems with transfer of funds to DPRK, since UNIDO has not yet started its monetary transfers and the WFP has stopped this activity with UNIDO and other UN agencies.

### **3. Phase-out of HCFCs**

Funding was approved for the preparation of a HCFC phase-out management plan. In 2008, national consultants and international experts were recruited. In 2009, International consultant visited the country, identified additional sectors consuming HCFCs. National consultants are collecting data on the above sectors. A second visit to DPRK is planned in February 2010 to verify the data and the information collected by the local experts.

#### **Dominican Republic**

##### **Phase-out of Methyl Bromide**

Under the phase-out project in melon, flowers and tobacco, agreements with methyl bromide consumer farmers have already been made. Most of the supplies (chemicals, substrates, small equipment) agreed upon with the farmers, were purchased. In the flowers sector, methyl bromide has already been phased out. During 2008 technical support was provided to the flower sector on the use of steaming and in horticulture in general. The national consultant prepared the final report and suggested some concepts on legislation. The process to adopt legislation will take more time. In 2010, training will continue to the horticulture farmers, and follow up on the adoption of the legislation would be done. The project is expected to be completed by the end of 2010.

#### **Egypt**

##### **1. Phase-out of CFCs**

The national CFC phase-out plan was approved at the 46<sup>th</sup> Executive Committee and the first three tranches were released. The first part of the refrigeration service equipment was purchased and delivered. The training programme of 1,200 technicians was accomplished. The industrial refrigeration and chillers as well as the remaining commercial refrigeration manufacturers were addressed providing a package of technical assistance, equipment, training services and eligible incentives aimed to achieve the phase out target. For 2009 an expedited plan of action for the implementation of the third tranche was agreed upon between the Egyptian authorities and UNIDO. The verification report required to obtain the funding of the fourth tranche identified a slight discrepancy in the customs data, therefore the Ozone Office decided to employ the flexibility it has in implementing the NPP to further build the capacity and strengthen the customs department. Training on the equipment delivered and retrofitting more chillers in the Egyptian Railways company will take place in 2010.

The phase-out of CFC consumption in the manufacture of aerosol metered dose inhalers was approved at the 50<sup>th</sup> ExCom Meeting. The project has an impact of 159.5 ODP tonnes and is expected to be complete by December 2010. UNIDO contract for equipment procurement and technology transfer in the value of USD 5.1 million was awarded. After the completion of the int. bidding the selected Contractor, i.e. Impopharma, Canada suddenly withdraw from the contractual commitments. Two new bidding have been started (one for equipment, another for technology transfer). In 2008 UNIDO procured filling equipment for the two Egyptian companies (ADCO and EIPICO). The selection of the technology provided was completed in November 2008. In 2009, the new filling lines have been supplied to Cairo for ADCO and EIPICO and the provider of technology submitted the documentation on Salbutamol. The first batch production of Salbutamol is planned to take place in March 2010. ADCO, project beneficiary delayed unexpectedly the equipment installation till July 2010. The technology provider will transfer another drug Beclamethasone to ADCO. Stability tests start from September 2010 for three months for the two drugs. It is expected by end of 2010 to make transfer of the two MDIs-Salbutamol and Beclamethasone.

## **2. Phase-out of Methyl Bromide**

The 20% methyl bromide reduction target was achieved in 2005 as a result of the implementation of the national phase-out plan for methyl bromide in horticulture and commodities fumigation. Completion of Phase 1 of this Project was completed in 2008 while the second phase was approved of the 56<sup>th</sup> ExCom Meeting. Sowing machines for three companies were purchased and delivered in 2009. The training on grafting will continue in 2010. The contract to Agriculture Research Center (ARC) will be issued and training to the small farmers would be provided. The strawberry runners producer would be assisted in the introduction and consolidation of alternatives.

## **3. Phase-out of HCFCs**

Funding for the preparation of an HPMP was approved at the 55<sup>th</sup> ExCom meeting. National experts for policy and regulatory issues as well as the solvent, foam and refrigeration sectors were recruited in October 2008. The national survey of HCFC consumption was completed in 2009. An international expert is working on the development of the HPMP document. The international expert identified additional information which needs to be collected to enable the completion of the document. The HPMP is planned to be submitted to the second meeting in 2010.

### **Eritrea**

#### **Phase-out of CFCs**

The TPMP was approved at the 54<sup>th</sup> ExCom Meeting with UNEP as the lead implementing agency. As per the ExCom's decision, no funding can be released until the confirmation of the report of the licensing system to the Ozone Secretariat had been received by the Fund Secretariat. Despite several follow-ups by UNEP and UNIDO the above confirmation has not yet been received. Thus, no activities could be implemented in 2009. It is expected that the country submit the licensing system, no later than 31 March 2010, to the Ozone Secretariat as per request from the Implementation Committee. UNIDO is preparing the project activities. Once the licensing system is in place, a joint UNEP-UNIDO mission will take place.

### **Georgia**

#### **Phase-out of Methyl Bromide**

At the 47<sup>th</sup> ExCom Meeting, technical assistance for the elimination of methyl bromide in grain and storage facilities was approved for UNIDO. Equipment have been delivered and first training session was

successfully undertaken in 2007. A second training session was organized and equipment installation was completed in 2008. The on-going subcontract amendment has been implemented as foreseen. Training activities as well as monitoring activities took place by mid 2009. Requisition to supply Phosphine generator for demonstrating the efficacy of the selected alternative is on-going. The demonstration as well as additional training session in connection to the Phosphine generator will be delivered by the supplier. National experts were contracted for the completion of the project implementation and survey of the implemented alternatives as well as for preparing a full implementation report. Awareness materials on the project results will be distributed in 2010. Equipment spare parts to be delivered first quarter 2010. Project will be completed as planned by July 2010.

## **Guatemala**

### **1. Phase-out of Methyl Bromide**

In 2008 the project continued supporting the melon growers in the elimination of the methyl bromide and the first phase was successfully completed in December 2008. The second phase was approved at the 59<sup>th</sup> ExCom. An action plan for the 2010 will be agreed with the melon farmers. Implementation of the project activities will start in 2010.

### **2. Phase-out of HCFCs**

Funding was approved for the preparation of the HPMP at the 57<sup>th</sup> ExCom meeting. The HPMP consumption survey is being carried out by national consultants. The kick off meeting took place in July, 2009 and was organized together with UNEP. The survey will be completed in March 2010 and strategy and Project document will be prepared. The project is planned to be submitted to the 62<sup>nd</sup> ExCom Meeting.

## **Guinea-Conakry**

### **Phase-out of CFCs**

The TPMP was approved at the 55<sup>th</sup> ExCom Meeting with UNEP as lead implementing agency. After technical specification was provided, equipment was purchased in 2009. Equipment delivered. Training workshop is planned for 2010.

## **Honduras**

### **1. Phase-out of Methyl Bromide**

A new phase-out schedule was approved by the 47<sup>th</sup> Executive Committee for the methyl bromide sector plan in order to reach the 20 per cent reduction target by 2008 giving time to further develop and softly apply the new technology. Phase I of the programme was completed in December 2006. Phase II was approved by the 50<sup>th</sup> ExCom and the first, second and third funding tranches were released. Equipment for grafting and for laboratory was purchased. All equipment have been installed and commissioned and are fully operational. For all the producers, consultancy services will be provided as part of the implementation activities. The remaining of the third tranche and the last tranche will be implemented during 2010. The activities are focused in the strengthening the selected and applied alternatives for each producer. The 4<sup>th</sup> tranche was approved at the 59<sup>th</sup> ExCom meeting on the understanding that: disbursement is conditional on the submission to the Fund Secretariat of an official communication from the Government of Honduras stating that the level of methyl bromide consumption in 2009 was below 183.6 ODP tonnes, which represents the maximum allowable level of consumption in the Agreement between the Government and the Executive Committee.

Activities in the 4<sup>th</sup> tranche will include the purchase of grafting devices (trays, clips etc) and equipment required for bioantagonist production.

### **2. Phase-out of CFCs**

The TPMP was approved at the 55<sup>th</sup> ExCom Meeting with UNEP as the lead implementing agency. An experienced national consultant is working on a national survey on the remaining CFC consumption. Furthermore, a technical institution is being trained in drop-in technologies with hydrocarbon refrigerant. UNIDO is implementing the investment part of the project in cooperation with the NOU. Training on hydrocarbon for replacing CFC in small appliances was carried out and a programme for the drop-in with HC in domestic refrigerators is being implemented. A 2<sup>nd</sup> tranche was approved at the 59<sup>th</sup> ExCom. For 2010, the end user program is being implemented with good results. Some tools were purchased as complement and replace the tools provided to the RMP and for R&R centers. The final part of the project is focused on service and end users, big efforts are made in the phase out of CFC in public hospitals.

## **India**

### **1. Phase-out of CTC Consumption and Production Sectors**

The majority of the enterprises has been converted. However, the installation of equipment in a few companies is still to be undertaken in 2009. We expect project completion in 2009.

Procurement of remaining equipment was finalized in 2009. Bidding for the dismantling of the old equipment and installation of the new one has been carried out. Re-bidding is required, since no proposals were received. Ordered equipment will be delivered to the site in 2010. The new bidding for the dismantling and installation is being arranged.

### **2. Phase-out of HCFCs**

Funding was approved for preparatory assistance for the HPMP at the 56<sup>th</sup> ExCom meeting. TOR for the preparation of HPMP, stage 1 component was developed and submitted to the ozone cell in 2008. National consultancy company for the preparation of the UNIDO's component of the HPMP, Stage I was contracted in 2009. UNIDO is cooperating implementing agency and is responsible for the transportation refrigeration and AC manufacturing sector. Survey of the sector commenced and is expected to be completed by March 2010. Submission of HPMP will be coordinated with the lead and other cooperating implementing agencies.

## **Iran**

### **1. Phase-out of CFCs**

The CFC phase out project in the MDI sector was approved at the 52<sup>nd</sup> ExCom Meeting. The TOR for technology transfer has been prepared and an international bidding started. In 2008 UNIDO procured filling equipment for the Iranian company Sina Darou. The technology provided was selected in November 2008. The pilot batches of the first MDI - Salbutamol are being planned to achieve by March 2010. Machinery has been received, installed and is working now to manufacture final quotas of CFC MDIs (to build up product stock for idle time of transition to HFA products). Technical dossiers for Salbutamol and Beclomethasone have been received and application file for registration of both products have been submitted to the Ministry of Health. The dossier for Salmeterol (3<sup>rd</sup> product) shall be received in mid February; and shall be processed immediately. Sina Darou is following up the matter with Ministry of Health. HFA materials and components have been ordered based on provider of technology's specifications. Sina Darou anticipates being able to manufacture the first batches of the 3 HFA products for stability testing in June 2010; and in December (having good stability results) the counterpart could obtain approval for starting commercial manufacturing. The project completion date is December 2010.

### **2. Phase-out of Solvents (CTC and TCA)**

A terminal solvent sector umbrella project was approved by the 50<sup>th</sup> Executive Committee Meeting. The project deals with the phase out of 52.7 ODP tones of CTC and TCA. It covers 6 small-scale industries. The CTC/TCA phase out in the companies has been achieved in 2008. All equipment have been procured and installed. Technical monitoring activities and two solvent training workshops as well as the preparation of solvent leaflets were conducted in 2010. The project was successfully completed in 2009.

### **3. Phase-out of HCFCs**

Funding for preparatory assistance for the HPMP was approved at the 58<sup>th</sup> ExCom meeting. Three local consultants have been assigned by UNIDO to conduct a survey for the allocated HCFC sectors. A mission of international consultant took place in October 2009 to start the identification of the potential investment projects. HCFC survey for rigid foams is prepared in 2010. The two investment Draft project proposals are with UNIDO for improvement

## **Jordan**

### **Phase-out of HCFCs**

Preparatory assistance for the HPMP was approved at the 55<sup>th</sup> meeting of the ExCom. Contracts were issued for the preparation of the survey in 2008. Stakeholders' workshop was organized. Considering that an investment project (in the manufacturing of mini-split units at Petra Engineering) is being submitted to the 60<sup>th</sup> ExCom, the HPMP would be submitted in 62<sup>nd</sup> or later.

## **Kenya**

### **1. Phase-out of Methyl Bromide**

At its 53<sup>rd</sup> Meeting, the ExCom approved the request by the Government of Kenya to transfer responsibility for implementation of all remaining activities associated with the completion of the phase-out of methyl bromide in the cut-flower sector from UNDP to UNIDO.

The project will phase-out all soil uses of MB in Kenya and commits to permanently sustaining the consumption levels through the use of import restrictions and other policies it may deem necessary. During 2008 a UNIDO mission was undertaken to transfer the project team from UNDP to UNIDO and to discuss the plan of action. Most items were purchased and the training programme is underway. Progress report was submitted to the Executive Committee in 2008. Project has now been completed.

## **2. Phase-out of Solvents (CTC and TCA)**

A technical assistance project for the total phase-out of CTC and TCA in the solvent sector was approved at the 57<sup>th</sup> ExCom meeting. In 2009, International consultant for organization of training workshop was identified. Country consumption is less than 1 ODP; effective phase-out is expected end of 2010. Training of national consultants and experts is planned first-half of 2010; Awareness activities and technical information dissemination within the country is foreseen second half of 2010.

### **Kuwait**

#### **1. Phase-out of CFCs**

The TPMP was approved at the 52<sup>nd</sup> meeting of the Executive Committee and approved in July 2007. The first tranche for a TPMP for Annex A group I substances was released in July 2007. The Annual Implementation Programme for 2007/2008 was prepared and agreed upon with the NOU and UNEP. Recovery and recycling equipment were procured. Training material for MAC retrofits was developed. The scheme for the implementation of a MAC retrofit incentive programme was agreed upon. Due to delays in contracting a firm to conduct the verification report, the submission of the second tranche is delayed to the 62<sup>nd</sup> meeting of the ExCom. In 2010 UNIDO will implement the retrofit incentive programme through the national ozone unit.

#### **2. Phase-out of HCFCs**

Preparatory assistance for the HPMP was approved at the 55<sup>th</sup> meeting of the ExCom. UNEP recruited a national consultant in 2008 to carry out the collection of data. Collection of data continued in 2009. HCFCs in Kuwait are consumed in 2 major sectors: XPS foam and RAC servicing. The Government of Kuwait is not in a position to submit the HPMP outlining the strategy for phase out in 2010 due to some outstanding issues relating to technology. It was agreed to advance the submission of an investment project to allow the country comply with its 2013 and 2015 obligations.

### **Lebanon**

#### **Phase-out of Methyl Bromide**

The methyl bromide phase-out project follows the ratification of the Montreal Protocol by the Government of Lebanon, which had planned a schedule for phasing out Ozone Depleting Substances (ODS). The Ministry of Environment in collaboration with UNIDO implements the project funded by the Multilateral Fund.

At its 52<sup>nd</sup> meeting, the Executive Committee approved the extension of project activities until the end of 2008 given the difficulties encountered by the project as a result of July 2006 war. The 2006 MeBr phase out target has been rescheduled over 2007 (5 ODP tons) and 2008 (4 ODP tons). Equipment and chemicals were delivered in 2008. Contracts with a national consultant as well as site engineers have been extended to ensure full implementation of the alternative technologies. Publication of materials for

disseminating the project results were achieved in 2009 (Training manual on MeBr alternatives, flyers, posters were designed and printed for distribution). Project is now completed.

## **Libya**

### **1. Phase-out of CFCs**

The third tranche of the national CFC phase-out plan was released at the 54<sup>th</sup> ExCom Meeting. Technical specification on service equipment for 50 service shops was prepared and agreed upon with the NOU. Procurement is underway and offers are being evaluated. Training of service technicians will be organized after delivery of the respective equipment. Meeting with NOU to agree on the work plan to implement final activities of the 2nd and 3rd tranche to take place in the 1st Quarter 2010

### **2. Phase-out of Methyl Bromide**

At the 47<sup>th</sup> Executive Committee Meeting, a phase-out project in horticulture was approved for UNIDO. The second tranche under Spanish contribution has also been released at the 56<sup>th</sup> ExCom Meeting and is under implementation by UNIDO. The Greenhouse is under installation. Revised agreement was approved at the 59<sup>th</sup> ExCom. In 2009 the project has progressed and training activities as well as technology transfer have been implemented. In particular, the greenhouse for the introduction of the grafting technology is under installation and its completion is expected at the beginning 2010. Training took place for technicians and managers of the grafting unit. Field training to the growers and technician took place in 2009 on the proper use of solarization, in combination with chemical substances as well as soilless cultivation. Distribution of plastic, insect nets, chemical substances to the growers took place in 2009. In 2010, completion of the grafting unit and follow-up on the training activities will take place. Transfer of the II tranche from Spain is in the process to be completed.

### **3. Phase-out of Halons**

The plan to phase out the import and net consumption of halons in the fire-fighting sector was approved by the 47<sup>th</sup> Executive Committee. The project has a total impact of 653.9 ODP tonnes. The initially identified entity to host halon banking equipment failed to obtain approval by the Ministry of Industry. A new entity (iron and steel company) has been suggested and the suitability is verified by the Government. Without the appointment of such entity no project activity can start. The international consultant was recruited and sent to the selected project beneficiary to assist in the preparation of the business plan in 2009. There is a delay in the preparation of the business plan caused by the absence of reconfirmation from the Government on the final selection of the project beneficiary. This reconfirmation is required, since management of the Ministry as well as the proposed beneficiary has not been aware of the selection of the previous Minister.

### **4. Phase-out of HCFCs**

Preparatory assistance for the HPMP was approved at the 55<sup>th</sup> ExCom meeting. Contracts were issued for the preparation of the survey in 2008. Upon finalization of the HCFC survey, workshop will be organized. HPMP is under preparation, it is expected submission of the programme at the 62<sup>nd</sup> ExCom or later.

## **Macedonia, FYR**

### **1. Phase-out of CFCs**

The terminal phase-out management plan was approved at the 45<sup>th</sup> Executive Committee. The fourth tranche was released at the 56<sup>th</sup> ExCom Meeting. Monitoring and reporting activities on the import

control and utilization of R&R equipment as well as operation of R&R and training centers are progressing according to the original schedule. The 5<sup>th</sup> tranche was approved at the 59<sup>th</sup> ExCom. Monitoring and reporting activities on the import control and utilization of R&R equipment and operation of R&R and training centers will take place in 2010. Recruitment of National Expert is in progress.

## **2. Phase-out of HCFCs**

Preparatory assistance for the HPMP was approved at the 55<sup>th</sup> ExCom meeting. HPMP preparation started in 2008. The HPMP was submitted to the 59<sup>th</sup> ExCom Meeting, however, was deferred to the 60<sup>th</sup> Mtg of the ExCom.

### **Madagascar**

#### **Phase-out of CFCs**

The TPMP was approved at the 52<sup>nd</sup> ExCom Meeting with UNEP as lead implementing agency. The second tranche was released at the 56<sup>th</sup> ExCom Meeting. The plan of action for the implementation of the second tranche was reviewed and agreed upon with the government. The Terms of Reference for the supply of equipment were prepared and are under review of the government. The equipment required for the project implementation was procured and delivered to Madagascar in 2009. Project is now completed.

### **Mexico**

#### **1. Phase-out of Methyl Bromide**

The technical assistance project was completed in June 2008 helping Mexico to achieve the 20% reduction target. Subsequently at the 54<sup>th</sup> ExCom Meeting the national methyl bromide phase out plan was approved. The project started its implementation. Agreements with the farmers have been drafted and are expected to be signed in due course. The Terms of Reference for the equipment purchase are under preparation according to the agreement. Four greenhouses were installed in 2009 and the fifth greenhouse would be delivered before end of the year. The second tranche of the project for all components (soil and structures) would be requested in the 60<sup>th</sup> ExCom Meeting.

#### **2. Phase-out of CFC Consumption Sector**

The national CFC phase-out plan was approved in 2004. Large-scale training continued, the technicians received recovery and service tools after successful completion of training. Equipment for 14 R&R centers were purchased. These centers were put into operation in 2008. In 2010 additional training of technicians and awareness raising activities are planned. Monitoring of implementation and verification of performance is continuing until end 2010 to ensure sustainability.

The CFC phase out project in the manufacture of metered dose inhalers was approved at the 53<sup>rd</sup> ExCom Meeting. Two biddings for the equipment procurement and for technology transfer started in 2008. In 2008 UNIDO procured filling equipment for the Mexican company Salus. The selection of technology provider was completed in November 2008. Equipment has been installed in 2009. One drug -Salbutamol was transferred by the Technology provider -VARI, Italy. The next drug Beclamethasone will be transferred in September 2010. 85% of CFC consumption will be phased out by the end of 2010.

### **3. Phase-out of CFC Production Sector**

The CFC production was closed on 25 August 2005. Full phase-out took place. The CFC consumption monitoring system is ready and operational. Annual verification audits have taken place confirming the complete phase out of CFC production. At the 56<sup>th</sup> ExCom it was decided that no further external audit is required. Further monitoring, policy and awareness measures were implemented in 2009. Project is now completed.

### **4. Phase-out of Solvents (CTC)**

The umbrella project for terminal phase-out of CTC was approved at the 52<sup>nd</sup> ExCom Meeting. Bidding for equipment procurement was completed in October 2008. Equipment is being manufactured and installation is planned for 2009. The company Mexichem will stop the use of CTC from 1 January 2009 to prepare premises for new equipment. Due to equipment delay, its installation did not start till January 2010. The project is expected to be completed by June 2010 after the conduction of pilot tests in May 2010.

### **5. Phase-out of HCFCs**

Preparatory funding for the HPMP was approved at the 55<sup>th</sup> ExCom meeting. Preparation of HPMP, workshop and survey started in 2008. Inception workshop on HPMP preparation was held in January 2009 with the participation of relevant stakeholders. Sub-Contract was made for the preparation and finalization of the survey and for HPMP preparation. Draft survey was finalized in October 2009. Final results of the survey with additional industry data are expected by early 2010, which will be reviewed by UNIDO, NOU and stakeholders. It will be followed by technology selection, priority setting, climate impact as well as costing issues. HPMP is expected to be submitted by the 62<sup>nd</sup> ExCom Meeting. During 2010, investment activities will be prepared in line with the country's priorities.

## **Montenegro**

### **Phase-out of CFCs**

The TPMP was approved at the 53<sup>rd</sup> ExCom Meeting. The implementation of the project started. The implementation modalities have been agreed upon. Equipment for training purposes was purchased. Project Management Unit was established and trained. 2<sup>nd</sup> tranche was approved at the 58<sup>th</sup> ExCom meeting. National team extended in 2009. R&R equipment purchased and delivered. Solvent training workshop is planned for 2010.

## **Morocco**

### **1. Phase-out of Methyl Bromide**

The sixth tranche of the phase-out project for soil fumigation in the tomato sector was released in 2008. In 2008 the project was implemented according to the work plan. Expected reduction of methyl bromide consumption was 68.4 ODP tones. In 2009 equipment installation was completed, further training and technology transfer to farmers took place and study-tours and workshops with the participations of international experts were organized. Further training and transfer of technology will take place in 2010.

The methyl bromide phase-out project in the production of green beans and cucurbits was approved at the 56<sup>th</sup> ExCom Meeting as the final funding of the methyl bromide phase out in Morocco. The 2009 and 2010 action plans were agreed during a mission on the project site in 2009 and a kick off stakeholder meeting. The national institution responsible for the project implementation was selected (APEFEL) and the contract was finalized. Study tours to Canada and Italy took place. Distribution of material and

consumables for the demonstration of alternatives to MB was completed. Procurement of the necessary equipment and tools for the installation of the composting plant and related quality laboratory was started. Procurement, distribution and installation of laboratory equipment and composting machines are to be completed at the beginning of 2010. Demonstration on green-beans is to be continued. Follow-up training activities for farmers and implementation of field visits are to follow. Second tranche is to be submitted to the 61st ExCom for consideration and approval.

## **2. Phase-out of HCFCs**

Preparatory funding for the HPMP was approved at the 55<sup>th</sup> ExCom meeting. National expert contracts were issued in 2008 and data collection commenced. Kick off meeting took place in March 2009. Draft final report from the team of national experts is expected by February 2010. HPMP planned to be submitted at the 62nd ExCom meeting for consideration.

### **Nicaragua**

#### **Phase-out of HCFCs**

The HCFC survey was completed in 2009. The project document is drafted and it is only pending the definition of technology. The submission will be postponed to the second ExCom Meeting in 2010 depending on the decisions on policy, second conversion and cut off dates.

### **Niger**

#### **1. Phase-out of CFCs**

The TPMP was approved at the 54<sup>th</sup> ExCom Meeting with UNEP as lead implementing agency. Implementation modalities have been agreed upon. Technical specifications for equipment purchase were prepared and agreed upon with UNEP and NOU. Equipment purchased, delivery took place in 2009. Additional equipment under procurement for 2010. A second tranche was approved at the 58<sup>th</sup> ExCom meeting. Technical Specification for equipment procurement was initiated in 2009. Delivery is planned for April 2010..

#### **2. Phase-out of HCFCs**

Funding was approved for preparation of the HPMP at the 55<sup>th</sup> ExCom meeting. National expert was contracted in 2008 and National survey kicked off for the preparation of the HPMP. The survey was finalized in 2009. Stakeholders' consultation workshop planned first half of 2010. HPMP is to be finalized in view of submission to the 62<sup>nd</sup> ExCom. National expert local missions are on-going for verification of the data survey, following Government request.

### **Nigeria**

#### **1. Phase-out of Solvents**

The terminal ODS phase-out umbrella project was approved at the 43<sup>rd</sup> ExCom Meeting to phase out 166.7 ODP tonnes of CTC and 31.3 ODP tonnes of TCA. The fourth and last tranche was released at the 52<sup>nd</sup> ExCom Meeting. In 2008 solvents were purchased, equipment was distributed and training of the national staff was conducted. Workshop for small-scale solvent was conducted in 2009. A team of national experts recruited to provide technical assistance to solvent users. Public awareness activities are continued. Procurement of spare parts for cleaning equipment and monitoring planned for 2010.

## **2. Phase-out of HCFCs**

Additional funding for the HPMP preparation was approved at the 56<sup>th</sup> ExCom meeting. Meeting with national stakeholders, the government and UNDP (lead agency) was attended in 2009. National consultant for HCFC consumption survey recruited. International consultant for preparation of investment activities identified. Recruitment and coordination of his visits is in progress. UNIDO's component of the HPMP is expected to be completed in 2010. Submission of HPMP will be coordinated with the lead agency and the Government.

### **Oman**

#### **1. Phase-out of CFCs**

The TPMP project was approved at the 52nd ExCom. During 2008 equipment was delivered, training on good practices was completed. Training material for chiller retrofits was developed. The training is expected to take place in 1<sup>st</sup> Quarter 2009. The tranche was completed in 2009 while the second tranche was approved at the 57<sup>th</sup> ExCom. Bidding for the procurement of the equipment foreseen under the AIP was initiated in October 2009. The contracts for the implementation and monitoring of the project were also issued. Ongoing monitoring and implementation activities are planned for 2010. Organization of training workshops will take place according to the implementation plan.

#### **2. Phase-out of Halons**

The halon consumption phase-out project was transferred from the World Bank to UNIDO at the 46<sup>th</sup> ExCom Meeting. The halon awareness and training workshop has been carried out. Selection of halon R&R equipment has been completed. International bidding for R&R equipment was completed and purchase order was issued. Equipment for local procurement is being coordinated with the NOU. The basic equipment ordered through international bidding was delivered to the project site in 2009. The counterpart has identified potential local suppliers for the outstanding equipment items. Technical specifications for local procurement was finalized and agreed upon. Local bidding for the purchase of additional equipment has started. Procurement of the outstanding equipment will be finalized; equipment will be delivered, installed, tested and commissioned in 2010.

#### **3. Phase-out of HCFCs**

Funding for the preparation of the HPMP was approved at the 55<sup>th</sup> ExCom. National experts were recruited to carry out the survey in 2008. The survey was completed in 2009 however some additional information is still required by UNEP. An international expert was recruited to start the preparation of the HPMP document. The HPMP is planned for submission to the second meeting of the Executive Committee in 2010.

### **Pakistan**

#### **1. Phase-out of Solvents and Process Agents (CFC and CTC)**

The process agent project at Himont Chemicals Ltd., was successfully completed in October 2008.

The national CTC phase-out plan was approved at the 41<sup>st</sup> Meeting of the ExCom. The third tranche was released at the 54<sup>th</sup> ExCom Meeting. In 2008 public awareness activities continued and purchase of equipment for three metal cleaning companies was finalized. Commissioning is being organized. Institutions to be provided with equipment for training and technology demonstration were identified (Technical University in Karachi and Sindh Technical Education and Vocational Training Authority) and

purchased in 2009. Monitoring and subsequent results on ODS consumption have been submitted. Project is now completed.

## **2. Phase-out of HCFCs**

Funding was approved for the preparation of the HPMP at the 55<sup>th</sup> ExCom meeting. Survey was organized in collaboration with UNEP in 2008. Preliminary results of the survey were reported. Potential beneficiaries of investment projects have been identified. Preparatory funds for investment activities in the polyurethane foam sector and refrigeration and air-conditioning manufacturing sector were approved at the 59<sup>th</sup> ExCom meeting. In 2010, Preparation of HPMP based on the results of the survey will be finalized. Submission of HPMP to an ExCom will take place in 2010.

## **Qatar**

### **1. Phase-out of CFCs**

A TPMP was approved at the 53<sup>rd</sup> meeting of the ExCom. The first tranche for the TPMP was approved in November 2007 and the project is planned to phase out of 3 ODP tonnes. The Annual Implementation Programme for 2008 was prepared and agreed upon with UNEP and NOU. Equipment for investment and non-investment activities were purchased by UNIDO. Training material on retrofitting of MACs and domestic refrigeration was prepared. The equipment for the refrigeration servicing were distributed. Activities for the monitoring and implementation of the project were initiated. The first training on MAC retrofits took place. The second tranche was approved by the 59<sup>th</sup> meeting of the Executive Committee. The priority in 2010 will be carrying out the training workshops as foreseen in the implementation plan and issuance of contracts related to the implementation and monitoring.

## **Regional Africa**

### **1. Phase-out of CFCs**

The strategic demonstration project for accelerated conversion of CFC chillers was approved at the 48<sup>th</sup> ExCom for five African countries, i.e. Cameroon, Egypt, Namibia, Nigeria and Sudan. In order to secure the associated external resources, UNIDO drafted a project concept, which was submitted to the Steering Committee of the FGEF in December 2006. The project concept was endorsed and the chiller project was included in the FGEF pipeline for 2007. To date, the external resources were mobilized since the project was approved by the FGEF Steering Committee. UNIDO and the cooperating partner agencies received the clearance from the Secretariat for disbursement of the funds under the project. A Steering Committee at country level was established in Egypt, while the other countries are working on the establishment of their respective steering committees. Each country prepared a strategy for dealing with the chiller sector. The agreement with the French Global Environment Facility was signed in July 2009. Funds are being transferred to UNIDO. While the project terrain is ready for the start of project implementation The agreement with the French Global Environment Facility was signed in July 2009. Funds are being transferred to UNIDO while the project terrain is ready for the start of project implementation. Issuance of contracts for the replacement of the chillers will start in 2010.

### **2. Phase out of methyl bromide**

The regional demonstration project on alternatives to the use of methyl bromide for treatment of high moisture dates for Algeria and Tunisia was approved at the 54<sup>th</sup> ExCom Meeting. During 2008 subcontract was made with the local dates producer and laboratory in Algeria to undertake treatment and tests of dates. Due to difficulties in supplying the chemicals to the country the first laboratory tests were undertaken in France. The tests showed positive results. The detailed analysis is under preparation. Seminar took place in Vienna on 16-17 April to discuss the results from the small scale tests conducted in

2008 and to plan the 2009 activities. Preparation of entomologist tests will be crucial for the proper execution of further tests. In 2010, selection of national experts to be fully involved in the conduction of the tests will start. Selection of the Tunisian partners is ongoing.

## **Regional Europe**

### **Phase-out of CFCs**

The demonstration project on the replacement of CFC centrifugal chillers was approved at the 47<sup>th</sup> ExCom for Croatia, Macedonia, Romania, Serbia and Montenegro. All eight chillers in Romania, Macedonia, Croatia and Montenegro and well as two other chillers in Serbia have been delivered and installed. UNIDO is waiting for the Secretariat's approval to disburse funding for the remaining two chillers in Serbia. UNIDO submitted a detailed report on the implementation of the chiller project to the 56<sup>th</sup> ExCom Meeting. 10 out of the 12 chillers foreseen for replacement under the project have been completed and are operational. An evaluation mission by consultants of the Multilateral Fund took place in March 2009 (Macedonia and Croatia). UNIDO is still waiting for advise from the Secretariat on disbursement of funding relating to 2 chillers in Serbia.

### **Romania**

#### **1. Phase-out of CFCs**

At the 45<sup>th</sup> Executive Committee, a national CFC phase-out plan was approved for UNIDO. The third tranche was released at the 51<sup>st</sup> ExCom Meeting. In June 2008 a joint mission with Sweden was undertaken. Update of the vocational schools was initiated, while in July and August 2008 the PMU carried out a survey of schools educating students in refrigeration and air-conditions. The training of teachers took place in September 2008 and two teachers from each of the seven schools identified in the survey participated in the training. CoP and training manuals were prepared in 2009. Additional equipment for vocational schools was purchased. Monitoring activities are ongoing.

#### **2. Sector plan for production sector (fourth tranche)**

The fourth tranche of the sector plan for production sector was approved in view of the progress already achieved in establishing the CTC incinerator in Chimcomplex and the completion of the removal of the capability to produce CTC at Olthim. Since the CTC production has already been closed, UNIDO is continuing with the monitoring activities and annual verification audits. ToR for destruction of production facility at Olthim was prepared in 2009. Contract for destruction of production facility at Olthim is slated for 2010.

#### **3. Phase-out of CTC in the Consumption and Production of Process Agent Uses**

A terminal phase-out management plan for phase out of process agent uses was approved at the 50<sup>th</sup> ExCom Meeting. The process design was made by UNIDO and project equipment was procured. Three biddings have been conducted to identify a local consultancy company to make a plant design documentation, which is needed for plant registration by Romanian authorities. However, UNIDO could not identify such a company. It was agreed with the Romanian authorities to change the Terms of Reference to include all remaining activities including plant design, equipment installation, piping, etc., and carry out a new bidding. A partial phase out of 50 ODP tonnes was achieved. Due to the shortage of funds and upon request from the project authorities UNIDO has completed the second round of international tender for the remaining project equipment inviting also local companies. The results of the biddings were presented to the authorities. UNIDO suggested to the Beneficiary-Oltchim that they would spend their own funds for instrumentation, civil and electrical work and equipment installation. Oltchim, in its turn applied to UNIDO with a request for funds increase. It was, however, agreed that Oltchim

would prove their funds to complete the project. UNIDO is evaluating the bids in order to proceed with issuance of the Purchase Orders. The project has already achieved the total phase out of 120 MT of CTC since the production of intermediates with CTC was stopped. The project is planned to be closed and return the remaining funds to MLF. Finally after length discussions with the Government of Romania and counterpart Oltchim it was decided to cancel this project. UNIDO and Oltchim agreed that the project should be cancelled and the remaining balance of US\$ 369,000 has to be returned to the Montreal Protocol Fund due to the following reasons:

- a) lack of about US\$ 2.0 million and which Oltchim denied to provide
- b) the production cost of DEHPC is higher at Oltchim than at any European manufacturer with higher production capacity. It is cheaper for Oltchim to purchase this chemical.
- c) After Romania joined the EU Oltchim has been experiencing financial problems and has to shut down production of some chemical products.

## **Sao Tome and Principe**

### **Phase out of CFCs**

TPMP was approved at the 54<sup>th</sup> ExCom with UNEP as lead implementation agency. The implementation modalities have been agreed upon. The project activities started with the training of technicians in the use of hydrocarbon as drop-in. Equipment required for the drop-in were purchased for the technical institution. National consultant was recruited for the coordination of project activities. Three technicians were trained on the recovery and recycling issues. A set of refrigeration tools, including recovery and recycling machines were purchased and delivered to the country. An ambitious program to replace the CFC-12 in domestic refrigerators was implemented by the vocational institution in the country. A second tranche was approved at the 57<sup>th</sup> ExCom meeting. After training of technical staff, the CFC-12 is being replaced in domestic refrigerators for HC. There are two ice producers which still consume CFC-12. The factories will be reconverted.

## **Saudi Arabia**

### **1. Phase-out of CFCs**

The national phase out plan was approved at the 53<sup>rd</sup> ExCom Meeting with UNIDO as lead implementing agency and UNEP as cooperating agency. The Annual Implementation Programme for 2008 was prepared and agreed upon with UNEP and the Government. All equipment were procured in 2008 and delivery is expected in 1<sup>st</sup> Quarter 2009. Two technical assistance workshops were organized for the manufacturing sectors. In addition UNIDO contracted a company for the establishment of a data base for reporting and monitoring of the NPP implementation.

### **2. Phase-out of HCFCs**

Funding was approved for the preparation of the HPMP at the 55<sup>th</sup> ExCom. In 2009, A re-request bid for proposals for the preparation of the HCFC phase-out management plan was posted beginning of August. Bids were held twice before, but no offers were received. Only one company submitted an offer for the third call for bids which is over the available budget. It was agreed that an international expert will visit Saudi Arabia and work on the data collection with the assistance of the ozone office. HCFCs in Saudi Arabia are consumed in 3 major sectors: XPS foam, AC manufacturing (high-ambient temperature) and RAC servicing. The Government of Saudi Arabia is not in a position to submit the HPMP outlining the strategy for phase out in 2010 due to some outstanding issues relating to technology. It was agreed to advance the submission of an demonstration project for ACs in high ambient temperatures as mandated by the decision of the meeting of the Parties.

## **Serbia**

### **Phase-out of CFCs**

The national CFC phase-out plan was approved for Serbia and Montenegro at the 43<sup>rd</sup> ExCom Meeting. Since Serbia and Montenegro have separated in 2006, a revised agreement for Serbia was approved at the 50<sup>th</sup> ExCom Meeting. There is a delay in the completion of the aerosol project, which was caused by the change of the country's management. In November 2008 nomination of the Ozone Officers has been officially received by UNIDO. UNIDO mission was undertaken in December 2008 to speed up the implementation and to agree on an accelerated work plan. New training institutions will be selected and the Terms of Reference to carry out conversion at foam companies have been prepared and contractor was selected after bidding. New equipment is expected in 1<sup>st</sup> half of 2009. Local contract for pre-installation works and local purchase of instruments and services is under preparation.

## **Sudan**

### **1. Phase-out of CFC and CTC**

The national CFC and CTC phase-out plan was approved at the 44<sup>th</sup> ExCom Meeting. The third tranche was approved 53<sup>rd</sup> ExCom Meeting. Training of technicians has continued with two training courses for 16 trainers operating the R&R centers. Upgrade of national R&R scheme was performed. National consultant was recruited to support the NOU and coordinate implementation activities. Contract for non-investment and monitoring and training activities awarded to the National Ozone Unit. Purchase of equipment for new training centers delayed due to delayed certification of the centers. Public awareness, training, monitoring and reporting activities are ongoing. The fourth tranche was approved at the 58<sup>th</sup> ExCom meeting. Recruitment of national and international consultants was initiated in 2009. Recruitment of national consultant delayed. Newly established training and servicing centers are to be equipped in 2010. Training and servicing equipment are to be specified and purchased.

### **2. Phase-out of HCFCs**

Funding was approved for the preparation of the HPMP at the 55<sup>th</sup> ExCom meeting. National survey on identification of HCFCs and collection of baseline data for formulation of the project document is in progress. Preliminary results were utilized to identify potential beneficiaries of investment projects. Preparation of HPMP based on the results of the survey will take place in 2010. Submission of HPMP to an ExCom in 2010 is planned. Investment activities are being prepared for the polyurethane foam sector and refrigeration and air-conditioning manufacturing sectors. Identification and validation of foam manufacturers to be eligible for funding in the first stage of HPMP is planned.

## **Syria**

### **1. Phase-out of CFCs**

The national CFC phase-out plan was approved at the 49<sup>th</sup> Executive Committee meeting. The second tranche was released at the 56<sup>th</sup> ExCom Meeting. The first bidding for the equipment purchase was unsuccessful and is now being repeated. The receipt of the offers is expected for end of February 2009. The country's monitoring system is under establishment. The component update of the vocational schools is ongoing. Equipment for vocational schools and training material is under preparation. Printing of training materials and training workshops will take place in 2010. A third tranche was approved at the 58<sup>th</sup> ExCom meeting. Training of technicians focusing on drop-in technologies and alternatives was conducted in 2009. Additional training for service technicians and customs officers will take place in 2010.

The demonstration project on the replacement of CFC centrifugal chillers was approved at the 47<sup>th</sup> Executive Committee. External resources were secured and disbursement of funds was confirmed by the Secretariat. Three chillers for the Le Meridien Hotel were delivered and installed in 2008. The retrofit of the chillers at El-Baseel Hospital is very complex and costly. This delayed the project implementation. The Hospital and the Ozone Office in 2009 were considering requesting the Executive Committee to consider replacing the chillers instead of retrofitting. In that case, the contract for the retrofitting will be canceled. As of 2010, no progress on the retrofitting of the chillers has been made. Retrofitting seems not to be feasible. The contract will be cancelled and a recommendation to replace the chillers will be made to the Secretariat.

## **2. Phase-out of Methyl Bromide**

The phase-out of methyl bromide in grain storage is progressing with the third tranche. Phosphine generators and additional equipment for phosphine application have been delivered and necessary training was provided. Purchase of additional equipment and contract with national expert will be extended. Purchase of additional phosphine generators and other equipment for the PH<sub>3</sub> application and necessary training is under evaluation. Mission to the field site planned in May 2010. Sub-contract for the execution of the national implementation to be completed at the beginning of 2010 (draft final report under preparation).

The national phase-out plan in soil fumigation was approved at the 49<sup>th</sup> Executive Committee. National institution was selected and contracted. Grafted plants were distributed to farmers. National institution was selected and contracted. Training was provided to trainers and extension activities took place. Materials and consumables were distributed to the growers. Study tour to neighboring countries took place.

## **3. Phase-out of HCFCs**

Funding was approved for the preparation of the HPMP at the 55<sup>th</sup> ExCom meeting. Stakeholders meeting was organized in 2009, survey completed and the project to be submitted at the 61st ExCom. Investment activities are being prepared for the refrigeration manufacturing sector.

### **Tunisia**

#### **1. Phase-out of HCFCs**

Funding was approved for the preparation of the HPMP at the 55<sup>th</sup> ExCom meeting. Contracts were issued for the preparation of the survey in 2008. The survey on HCFCs started in 2009. The HPMP is under preparation and the proposal will be submitted to the 62nd ExCom or later.

### **Turkey**

#### **1. Phase-out of Methyl Bromide**

Phase-out of Methyl Bromide for Soil Fumigation in Protected Horticulture and Cut-flower Production in Turkey was approved in 2001, but was started only from the beginning of 2003 and finally received considerable impetus at the end 2004-2005 and also in 2006.

The aim of this project was to phase out 293,4 ODP tons of methyl bromide used in protected horticulture and cut-flower production, introducing suitable alternative methods and minimizing economic losses due

to the ban on methyl bromide. Three steam machines and one soil-less culture system were provided to end users who were also trained by suppliers.

Training activities included, nine training programs (3-5 days) given by international experts on soil-less culture, IPM for cut-flower growers, and trust tomato and pepper crop management for the horticulture sector, distributing leaflets, on farm trainings, extension personnel trainings, radio and TV programs. In total, 700 vegetable and cut flower growers attended the training programs. Grafting trials for the second year were finished and will be followed with additional trials for further confirmation of the results. Information dissemination related to the project results and monitoring of the alternatives applications were the activities during the first half of 2009. The project is now completed.

## **2. Phase-out of HCFCs**

Funding was approved for preparation of the HPMP at the 55<sup>th</sup> ExCom meeting. The inventory of the HCFCs applications was not finalized in 2009. NOU requested additional support. Missions took place in summer 2009 at end-users. The NOU has also agreed that a grant scheme mechanism to be considered for the investment sector. Mission for meeting relevant stakeholders to take place first quarter 2010; HPMP draft expected to be finalized by end 2010. Submission to 61 ExCom or 62 ExCom, due to long administrative procedure for agreeing the content of investment component of HPMP. Investment activities are being prepared in the polyurethane foam sector and refrigeration manufacturing sector.

### **Uruguay**

#### **Phase-out of Methyl Bromide**

An extension of the phase-out agreement was approved at the 46<sup>th</sup> Executive Committee in July 2005. According to this agreement, total phase-out of methyl bromide will be achieved by January 2013. Subcontractor (INIA) continued training and assistance to farmers. In one region, methyl bromide has already been phased out. In 2007, awareness activities to convince farmers to eliminate methyl bromide in one of the remaining regions were conducted. Some test on Iodure methane, which could be a convincing alternative were finalized. The test with Iodure methane gave very good results. Monitoring of the phase out will be continued until the complete phase out is achieved. Project was completed in 2009.

### **Venezuela**

#### **1. Phase-out of CFCs**

The national CFC phase out plan was approved at the 42<sup>nd</sup> ExCom Meeting. Three tranches were successfully completed and the fourth tranche was submitted to the 56<sup>th</sup> ExCom consideration. Since additional verification was requested by the ExCom, the tranche was submitted to the 57<sup>th</sup> ExCom and approved. The recovery and recycling scheme is fully operational. Reclaiming equipment was installed in the premises of PRODUVEN and is operating as part of the R&R system. At present, 4,400 technicians have been trained and 3,890 technicians were trained and certified. A chiller programme will be implemented based on an incentive programme and revolving fund. The chiller project will be implemented purchasing three to four units. The devaluation of the local currency and new monetary regulation in the country could delay the project implementation. The recovery and recycling scheme is fully operational and FONDOIN will continue monitoring the CFC phase out.

The Committee noted (i) the progress report on the implementation of the phase-out plan during the years 2007 and 2008; (ii) that the country was in non-compliance with the Agreement for the year 2006; (iii) that the country had taken action to effectively return to compliance with the Agreement for the year 2007; and (iv) the commitment of the Government as reported by UNIDO, to export or destroy any remaining stockpiled CFCs. The Committee decided to apply the penalty clause in the Agreement

calculated at 20 per cent of the amount of the tranche being submitted for non-compliance with the Agreement, on the basis of: (i) that it was the first time that the country had been in non-compliance with the Agreement; (ii) that non-compliance with the Agreement did not lead to aggregated consumption for all years of the Agreement being larger than the aggregated values of the agreed consumption for those years; (iii) the country had returned to compliance without additional assistance from the Fund. UNIDO was requested to submit, no later than eight weeks prior to the 61st Meeting, a verification of the level of stockpiles of CFCs at the end of the years 2008 and 2009, any export of CFCs during 2008 and 2009, and the destruction of any remaining CFCs, that were not exported prior to December 2009. As complementary activity, in 2010 the licensing system is being reviewed and will be upgraded using the latest IS technology. A second activity to be implemented will be the automatization of the licensing system providing access via Internet.

## **2. Phase-out of HCFCs**

Funding was approved at the 55<sup>th</sup> meeting of the ExCom for the preparation of the HPMP. The HCFC survey was carried out by a national consultant in co-ordination with the NOU. This was completed in 2009. The survey is ready and the Project document is being prepared. Based on the decisions of the 60th ExCom Committee, the project will be submitted to the 61st ExCom or 62nd. ExCom Meeting.

### **Yemen**

#### **1. Phase out of CFCs**

The national ODS phase out plan for Yemen was approved at the 55<sup>th</sup> ExCom Meeting with UNEP as lead implementing agency. The Executive Committee decided to convert the foam companies to HCFC-141b technology due to the fact that there was an urgent need to phase out CFCs by 2010. Yemen will be eligible for funding for second stage conversion for the companies covered by the NPP. The equipment for the refrigeration manufacturing and servicing components of the project were purchased at the end of December 2008. A specialized foam expert was recruited and visited Yemen in early December 2008 to assess the situation of the 10 commercial refrigeration companies and study the feasibility of implementing hydrocarbon technology. The Government was considering merging 5 companies and providing them with Hydrocarbon machinery, while the rest will be supplied with HCFC machinery. The equipment for the refrigeration manufacturing and servicing was delivered to Yemen. The decision to merge 6 out of the 10 companies and provide them with hydrocarbon equipment was adopted by the Government of Yemen. Thus contracts for the supply of the foaming equipment were awarded in September 2009. The refrigerant equipment arrived in Sanaa. However the foaming equipment will be shipped in February. The companies are not allowed to produce using CFCs by law. The installation shall be finalized by June 2010. In 2010, UNIDO will work together with the NOU on performing an assessment of the service sector to determine the beneficiaries of the equipment.

#### **2. Phase-out of HCFCs**

Funding was approved at the 55<sup>th</sup> meeting of the ExCom for the preparation of the HPMP. The HPMP inception workshop was held in June 2009. UNEP and UNIDO in cooperation with the ozone office have been accelerating the implementation of the NPP to ensure the compliance with the 2010 phase out target. This slightly delayed the initiation of the project. The recruitment of national experts is now in process and the project is expected to progress better. Recruitment of an international expert to prepare the strategy and the linkages to climate will take place in 2010. The HPMP is planned for submission to the last meeting in 2010.

## **Zambia**

### **Phase out of methyl bromide**

A technical assistance project for the complete phase out of methyl bromide in the tobacco, cut-flowers, horticulture and post harvest uses was approved at the 56<sup>th</sup> ExCom Meeting. Working arrangement on implementation modalities is under finalization between UNIDO and the government. In 2009, the agreement with UNIDO and NOU was finalized. Sub-contract for the execution of the training and monitoring components finalized. National project coordinator was recruited. Training activities will be started in 2010 and list of necessary equipment finalized and first set of equipment to be purchased and distributed.