

Additional Information Submitted by some countries on their Implementation of the Montreal Protocol

At the beginning of 2007, Parties operating under Article 5 of the Montreal Protocol were offered an opportunity to prepare further information for the media on their countries participation in the Montreal Protocol. The following document includes 9 “country story” documents exactly as submitted by the Parties listed below. Three of the Countries, China, Malaysia and Thailand, also submitted the documents in their home language for use by local media.

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AFGHANISTAN

Afghanistan Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 17th June 2004 with all its amendments

National Entity(s) Primarily responsible for Implementation of the Protocol:

**Afghanistan Ozone Programme, National Environmental Protection Agency , Kabul
Afghanistan**

The primary contact(s) for Press inquiries

Name; Zahid Ullah Hamdard, Director Afghanistan Ozone Programme
Entity: Afghanistan Ozone Programme – National Environmental Protection Agency
Address : Darul Aman Road, Inside Ministry of Energy and Water, Kabul
Afghanistan
Phone Number : + 93 799 56 54 58 OR +93 777 56 54 58

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout:

	Peak Use	2005 Use
CFCs (1995-97) baseline	380 MT	141 MT
Halons	1.86 MT	0 MT
Carbon Tetrachloride	0.88 MT	0.11 MT
Methyl Chloroform	0 MT	0 MT
Methyl Bromide	0 Mt	0 MT

Number of Projects/Activities funded in the country:

- 1- Institutional Strengthening Project 2004-2005 Worth 40,000 USD**
- 2- CP RMP preparatory project , 2005 at cost of 25,000 USD**
- 3- Awareness project for year 2005 at cost of 10,000 USD**
- 4- Institutional Strengthening Project for year 2006 2007 at cost of 150,000 USD**
- 5- 47th ExCom Approved the National Phase out Plan (Country Programme) at cost of 1.2 Million USD till 2010 to phase out 179 MT of ODS**

Amount of money approved for the country: 1.2 Million USD

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

Name of Firm and contact with phone number : GTZ Proklima, Juergen Usinger Email: Juergen.usinger@proklima.net

Brief Description of project and accomplishment :

In April, 2006, A GTZ expert / Consultant visited the two foam production factories and held technical discussion with the factory authorities. The MILLI SPONG , a Kabul base Foam production unit which has been producing Foam since last 20 years has been using CFC-11 in the foam production, Similarly field visits were made to Herat province, where by ARYA FOAM production company was visited. A technical study was carried of the both foam production units and a number of measures were discussed. There are three discontinuous units in the country and one continuous flexible foam unit under construction. Two units are made in Taiwan, others are locally built.

The manufacturers have already tried employing MC, they lack however experience in proper formulation and ventilation of working places.

It is planned to assist one factory in proper commissioning a new continuous line in such way that it can be safely operated and replace the unsatisfactory discontinuous production. In the case of the other producer, an enclosed working unit for use of MC in a discontinuous process is advised.

Following the tight funding the final decision on the range of assistance has to wait until the total cost of the implementation of the R&R activity can be finally determined. It is planned that latest in March all details are known in order to start the activities.

Refrigeration Project

Name of firm and contact with phone number: UNEP, Mr. Atul Bagai, Bagai@un.org

Brief description of project and accomplishment:

To provide training to about 25 trainers and 300 technicians involved in the refrigeration trade on good practices and Enable CFC-12 recovery and use recycled CFC-12 to reduce use of virgin CFC-12 which will reduce market demand for CFC-12 in the country

Aerosols Project N A

Name of firm and contact with phone number

Brief description of project and accomplishment

Halon Project N A

Name of firm and contact with phone number

Brief description of project and accomplishment

Projects working with schools or universities N A

Name of institution and contact with phone number

Brief description of project and accomplishment

Important national stakeholders and or champions who have helped in implementation and might speak to press

Name, affiliation, and contact phone number

Mr. Jalil Jumriany, Director General , Afghanistan Customs , + 93

Name, affiliation and contact phone number

Mr. Khushal Rassi, Director Hirat Customs Port, Afghanistan Customs, Tel + 93 70024 61 69

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank
- UNIDO
- UNEP ✓ ✓ ✓
- UNDP

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings 1- Zahid Ullah Hamdard, Ozone Officer, Naimatullah Zafary , Operation Assistant Afghanistan Ozone Programme, Nasrullah Khan, Assistant Ozone Officer,
- Any national or international award winners : Not yet entitled
- National members of Panels or Executive or Implementation Committees , N A

Armenia's Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 28 April 1999

National Entity(s) Primarily responsible for Implementation of the Protocol: Ministry of Nature Protection of Armenia

The primary contact(s) for Press inquiries

Name: Asya Muradyan
Entity: Ministry of Nature Protection
Address: Government Bldg. 3, Republic Square, Yerevan, 0010, Armenia
Phone Number: (374 10) 54 11 82

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout:

	Peak Use	2005 Use
CFCs (1986)	196.5	84.0
Halons	0	0
Carbon Tetrachloride	0	0
Methyl Chloroform	0	0
Methyl Bromide	0	0

Number of Projects/Activities funded in the country: 6 Projects

Amount of money approved for the country: USD 2 087 000

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

Name of Firm and contact with phone number

SAGA Commercial Refrigeration Plant

Director: Mr. Aram Khachatryan

Tel: (374 10) 61 43 40

Brief Description of project and accomplishment

The project included replacement of the existing stationary mixer with a high pressure Poliurethane foam dispensing unit of the required capacity (80kg/min) and the existing CFC 12 charging system by new HFC 134a R-404A refrigerant technology. The project eliminated the use of 6.5 ODP tones/year of CFC 11 and CFC 12 by conversion to the use of Water-blown PU-foam and HFC 134a respectively.

Refrigeration Project

Name of firm and contact with phone number
Brief description of project and accomplishment
“Awareness and Incentives” Project

The aim of the project is to encourage refrigeration end-users to replace or permanently retrofit, their existing ODS based equipment to use zero-ODP, or low-ODP refrigerants. Incentive payments are based on ODP consumption of the replaced equipment or the cost of permanent retrofit and ODP consumption. Till now 20 enterprises have been involved in the project. Project status: ongoing.

“Recovery and Recycling” Project

Five training seminars for refrigeration technicians were held to familiarize them with the best practices on refrigeration, as well as the RMP and the National Recovery and Recycling Programme. 170 sets of equipment were distributed among the technicians to perform the servicing in an ozone-friendly way. Also 4 recycling centres were established throughout the country. Project status: completed.

“Monitoring the Activities in the RMP” Project

The project aims at monitoring the activities related to the refrigeration sector. A system for monitoring the quantity of the CFC recovered and recycled is established. Reports are formulated and submitted on the quarterly basis. Project status: ongoing.

Aerosols Project

Name of firm and contact with phone number
Yerevan Household Chemistry Plant
Director: Mr. Karen Khachatryan
Tel: (374 10) 48 18 20

Brief description of project and accomplishment

The project included hydrocarbon propellant replacement technology to replace CFC11/12. Within the project the company was provided by i) the propellants’ storage and transfer system to the gassing unit, ii) the filling line and iii) assistance in designing, installation, commissioning and training.

After conversion to hydrocarbon propellant, Yerevan Household Chemistry Plant has one filling line. The enclosed gassing room is in the main building and connected by means of conveyor to other parts of the manufacturing plant. The factory is fitted with gas detection and monitoring system. The production area is incorporated into the gas monitoring system.

Halon Project

Name of firm and contact with phone number
Brief description of project and accomplishment

No Halon Project is included in Armenia’s Country Programme of Phasing-out Ozone Depleting Substances. Data collection for 2005 revealed the consumption of 13720 kg of halon-1301. Armenia applied for assistance to UNIDO but was rejected. Till now no assistance has been provided to the country to handle this situation.

Projects working with schools or universities

Name of institution and contact with phone number
“Institutional Strengthening and Capacity Building” Project which includes awareness raising component

National Ozone Unit, Ministry of Nature Protection of Armenia
Head of NOU: Ms. Asya Muradyan
Tel: (374 10) 54 11 82

Brief description of project and accomplishment

Important national stakeholders and or champions who have helped in implementation and might speak to press

Name, affiliation, and contact phone number

Name, affiliation and contact phone number

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank
- UNIDO
- UNEP ☒
- UNDP ☒

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings
- Any national or international award winners
- National members of Panels or Executive or Implementation Committees

China

China PRC

Ratified Montreal Protocol on: 14-June-1991

National Entity(s) Primarily responsible for Implementation of the Protocol::

State Environmental Protection Administration(SEPA)

The primary contact(s) for Press inquiries

Name : Yue Ruisheng

Entity : Department of International Cooperation

State Environment Protection Administration□SEPA□

Address : No.115 Xizhimennei Nanxiaojie, Beijing 100035, China

Phone Number: +86-10-66556492

Name : Wen Wurui

Entity : Foreign Economic Cooperation Office (FECO)

State Environment Protection Administration (SEPA)

Address : No.115 Xizhimennei Nanxiaojie, Beijing 100035, China

Phone Number: +86-10-66556583

Name : Li Xinmin

Entity : Department of Pollution Control

State Environment Protection Administration (SEPA)

Address : No.115 Xizhimennei Nanxiaojie, Beijing 100035, China

Phone Number: +86-10-66556234

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout(in ODP tonnes):

	Peak Use	2005 Use
CFCs (1986)	75426.8 (1995)	13341.25
Halons	35731 (1997)	4446.51
Carbon Tetrachloride	29617 (1999)	1060.33
Methyl Chloroform	816.6 (1989)	186.59
Methyl Bromide	2100.6 (2000)	620.17

Number of Projects/Activities funded in the country:

254 single projects

15 sector plans

Amount of money approved for the country:

About US\$ 765 million

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project :

Name of Firm: Lanzhou Huayu Aviation New Material Co. Ltd.

Contact Person: Zhu Xian

Phone number: +86-13363608246

Brief description of project and accomplishment:

This is a consolidation project with Lanzhou Huayu Aviation New Material Co. Ltd. as its lead company. Other 19 small foam companies were included in the project. These small companies received compensation from the lead company for stopping foam production with CFC-11. The contract for the project was signed in January 2003 to phase out 1,060.08 ODP tons of CFC-11 in these companies with grant amounting to US\$ 5,125,900. A total of 34 sets of CFC using foam production equipment were dismantled. Five new CFC-free foam producing machines as well as supporting equipment were procured for the lead company to produce foam after the conversion. The project has been completed and the lead company has started non-CFCs foam production with the new equipment since early 2006.

Methyl bromide Project :

Name: State Administration of Grain (SAG)

Contact Person: Tan Bengang

Phone number: +86-10-63906972

Brief description of project and accomplishment:

Since the year of 2004, SEPA/FECO and SAG have established a joint working group for phasing out methyl bromide in commodities fumigation sector. A total of US\$1.46 million have been distributed to phase out methyl bromide in this sub-sector by the end of 2006.

Till now, five TA activities including survey and training and so on have been financially completed. Based on the survey result, the alternative technology has been focused on phosphine and 34 depots have been identified as Technical transfer centres and to be beneficiaries of MLF. The alternative equipments procured by the funding for the beneficiaries have been in operation now.

The Announcement for consumption ban for Methyl bromide in commodities sector has been issued jointly by SAG and SEPA on September, 2006. There will be no consumption of methyl bromide in commodities fumigation sector since December 31, 2006.

As a result of the above activities, 126 ODP tons methyl bromide had been finally phased out in commodities sector.

CTC/PA Project :

Name of firm: Shanghai 3F New Materials Share Co Ltd.

Contact person: Tang Jie

Phone number: +86-21-64340154-3210

Brief description of project and accomplishment:

According to the CTC/PAI agreement and APP agreement, CFC-113 consumption as process agent must be completely phaseout by Jan. 1, 2006. The enterprise used CFC-113 as process agent to produce PTFE. In 2003, the whole sector found it difficult to phaseout CFC-113 because potential substitute is extremely expensive and the technology is not

mature. In December 2006, SEPA signed a CFC-113 consumption reduction contract with the enterprise to reform the production line so that national CFC-113 consumption target can be met and future substitute can be used in the reformed facility.

After contract signature, the enterprise reformed the production line in accordance with the requirements of the contract. Meantime, the enterprise also devoted to develop new cost-efficient substitute. The enterprise began to use the new substitute and realized complete phaseout of CFC-113 by the end of 2004, which was one year earlier than the stipulated deadline in the CTC/PAI agreement. At the end of 2005, the enterprise also transferred its technology to another PTFE producer to help its CFC-113 phaseout target.

MAC Project :

Name of firm: Mudanjiang Automotive Air Conditioner Compressor Co.,Ltd.FAW

Contact person: Sun Desheng

Phone number: +86-453-6173004

Brief description of project and accomplishment:

Mudanjiang Automotive Air Conditioner Compressor Co.,Ltd.FAW was major in manufacturing auto MAC compressors. It was awarded USD\$1769063.95, including USD\$ 828,503.95 from Montreal Multilateral fund and 940,560 by itself which was used to bring software of substitutes HFC-134a technology from DU PONT in China from 1999 to 2001. Equipments such as PAG Oil charging machine, Washing machine, HFC-134a recovery & recycling system purchased, Modification of performance tester, Endurance Performance Tester, Piston Locking Machine and Jig /cutter par renovated and the technical training of HFC-134a was completed. The conversion from CFC-12 production to HFC-134a production was achieved and certificated by CCAP as the base of phasing-out in the entire sector.

Name of firm: Grand Ocean Auto Air Conditioning Engineering (Dalian) Co.,Ltd.

Contact person: Wu Guobin

Phone number: +86-411-87301071-612

Brief description of project and accomplishment:

It was a professional motor air Cool-heat manufacturer. Grand Ocean was awarded the USD\$1,316,680 including USD\$541,632 from Montreal Multilateral fund and USD\$775,048 by itself. Grand Ocean have successfully developed new products applicable to HFC-134a by changing the design of former evaporator, condenser and air condition system, and adopted Modine Company's (USA) mature computer software support on the design with a parallel flow condenser and purchased Header press Machine, Header Tooling and Punch, Fin Forming Roll, Tube End Rotary Grooving Machine, Automatic Helium Leakage Detector (filling & recovering type of PF). With the implement of the Phase-out plan, Grand Ocean developed to produce 16, 18.8, 22 three kind of HFC-134a PF cooling Machine with many specifications and raised the powerful competency greatly.

Name of firm: Nanjing Xinxing Automotive Robber Factory

Contact person: Zhu Jinshun

Phone number: +86-25-83130896

Brief description of project and accomplishment:

Nanjing Xinxing Automotive Robber Factory was major in the robber designing and manufacturing for a such long time with the production of robber ducts, sealed parts etc. As required by the property of rubber ducts, modification of original rubber ducts production technology for HFC-134a, capability of the dust need to be improved. Therefore it is necessary to improve the air-conditioning dust. NANJING XINXING was awarded total USD\$1495730 including USD\$1037332 from MLF and USD\$458398 from its own. NANJING XINXING utilized most equipments for CFC-12 conditioning dust of original production line and bought in key Nylon Extruding equipments of nylon and TPX extruders and relevant technology, assistant part of connector production Line and Nylon Extruding

production line was developed by NANJING XINXING. it self. With the help of combination, connection and automatism of such three kind of equipments, the production was adjusted successfully and certificated by CCAP in the first time and also got many praise from clients.

Halon Project :

Name of firm: Zhejiang Dongyang Chemical Company Ltd.

Contact person: Wang Tian'e

Phone number: +86-579-6686205

Brief description of project and accomplishment

Zhejiang Dongyang Chemical Company Ltd. is the largest halon 1211 producer in China, which occupies about 30% of national production. The peak annual production amount ever reaches to 4500MT.

Dongyang have signed halon 1211 phaseout contract for four times since 1998, with the total phaseout amount of 2993MT ODS and total compensation of US\$501.256 million. As the last halon 1211 producer in China, Dongyang company dismantled all halon 1211 product lines in 2006, which made the goal of totally phaseout halon 1211 production in China become true. Dongyang Company has made a great effort to Halon sector plan implementing successfully in China.

Solvent Project :

Name of firm: Zhejiang Sanhua Refrigeration Group.

Contact person: Lv Lingqiu

Phone number: +86-575-6225297

Brief description of project and accomplishment:

Zhejiang Sanhua Refrigeration Group, located in Xinchang, participated in the 2002 ODS Reduction Project of the Solvent Sector in China, phasing out 10 ODP tones of TCA and 69.6 ODP tones of CFC-113, with contract amount of RMB 5,567,120. The main products of the group include home appliance air-conditioning, automobile air-conditioning, and refrigerator components, which require high level of cleanness to guarantee quality. CFC-113 and TCA had been two of the main solvents for cleaning use in the production process and the annual consumption was approximately 80 ODP tones.

After starting the project, the cleaning equipments were gradually disposed and converted to non ODS-consuming units. Adopting non-ODS solvents, including PPG, hydrocarbon substances and SF-111, the products well meet the quality requirement. Among the products, the 4-way reversing valves, ranking the top of the world in terms of sales volume, are completely produced under the non-ODS production line.

In addition, with techniques and equipment updated, less solvent is vaporized and the annual consumption of non- ODS solvent has also been reduced to 20 tones.

Name of firm: Chongqing Chuanyi Company

Contact person: Yu Chaoqing

Phone number: +86-23-68223942

Brief description of project and accomplishment:

On Feb. 21th , Chongqing Chuanyi Company and FECO signed the 2000 ODS Phase-out Contract, phasing out 8.6 ODP tones of TCA with contract amount of RMB 2,000,000. The project was completed in the following two years. The company produces noble metal materials and products, electro thermal materials, resistance materials, etc., including 200 types in 12 categories.

TCA consumption in the company had been rising since 1997 and was up to 86 ODS tones in 2000.

Ultrasonic cleaning equipments were developed as the substitution of former ODS-consumption equipments and a substitute solvent, RF-99, was used on the new equipments, which is non-ODS, safe and nontoxic. The trial run was started in January 2001 and completed in March 2002. It had proved that after the new system was mature, producing qualified products. The annual yield was also largely enhanced.

CFCs production Project :

Name of firm: Jiangsu Changsu Refrigerant Plant (Changsu 3F)

Contact Person: Mr. Shen Xuezhong

Phone number:+86-520-52621243

Brief description of project and accomplishment

Changsu 3F is one of the 37 CFCs production plants which participated in the Sector Plan for CFC production phase-out in China, which was approved by the Executive Committee in March, 1999. The total grant of the Agreement for the China CFCs production Sector is US\$150 million, which will be used for 37 firms in China to phase-out 50351 ODP tonnes CFCs production by the year 2010. Changsu 3F also participated in the Accelerated Phaseout Plan for CFC and Halon Production and Consumption in China (APP). One of the main objectives of APP is to achieve zero CFC production by July 1, 2007 (two and half years ahead of the Montreal Protocol timetable).

Changsu 3F has the biggest amount and most variety of CFCs production in China. According to the above mentioned two phase-out plans, According to the phase-out plan, The company reduced 9643 ODP tonnes CFCs production from 1999 to 2006, accounting for 25.8% of the total phase-out amount of the China CFCs production sector phase-out plan. In the year 2005, the firm dismantled CFCs 113 production line, achieved the objective of phase-out 550 ODP tonnes in 2006, which also assisted the accomplishment of phase-out plan of CFCs 113 in solvent sector in 2006.

The production of CFC-11, CFC-12, CFC-115 will cease by July 1, 2007. The production facilities will be dismantled afterwards, which means there will be no more CFCs production in Changsu 3F.

Name of firm: Zhejiang Juhua Fluoro-Chemical Co. Ltd

Contact Person: Mr. Tang Yueming

Phone number:+86-570-3096522

Brief description of project and accomplishment :

Zhejiang Juhua Company is also one of the 37 CFCs production plants which participated in the Sector Plan for CFC production phase-out in China, which was approved by the Executive Committee in March, 1999. It also participated in the Accelerated Phaseout Plan for CFC and Halon Production and Consumption in China (APP).

The company has large amount of CFCs production. The production line is the only line which can produce both CFC-11 and CFC-12. According to the phase-out plan, the company reduced 7060 ODP tonnes CFCs production from 1999 to 2006, accounting for 18.9% of the total phase-out amount of the China CFCs production sector phase-out plan. Specially, the company can produce the CFCs for MDI use which were sold in domestic and foreign market. It is the most competitive company who apply for the production of 550 MT of CFC production for MDI use in 2008 and 2009.

ICR Project :

Name of Firm: Zhengjiang Chunhui Company (Group)

Contact person: Ding Wenjun

Phone number: +86-575-2152179

Project : CFC-12 small open-type Refrigerating Compressor Replacement

Brief description of project and accomplishment:

According to the Industrial & Commercial Refrigerating Sector Program approved on March 2002 by Montreal Protocol Multinational Funds Executive Committee and the Implementing Plan, the ICR sector is the tail substitute project of the sector based on the state that the 19 single ICR CFC substitute projects have been completed. It includes total 5 subprojects. Of the 5, the project namely Dalian No. 2 Refrigerating Machinery Factory is an independent implementing project by itself. The other 4 small projects, they are Zhejiang Chunlian Refrigeration Machinery Co. Ltd, Shanghai Minhang Refrigerator Factory, Zhejiang Beifeng Refrigeration Machinery Co. Ltd and Zhejiang Yuhuan Refrigeration Machinery Co. Ltd, would be carried organization restructure by Zhejiang Chunhui Group Co. Ltd. After the organization restructure, Chunhui Company will unify the substitute work from the 4 as one, the CFC-12 consumption of the 4 will be phase out and the CFC base line equipment of the 4 small will be destroyed, the new equipment and technology for the production of HCFC-22 compressors will be purchased and finally the Chunhui Company will substitute the CFC-12 compressor production into HCFC-22 compressor production. After the completion of the project, Chunhui will achieve the objective of the restructure project to phase out 635 tons CFC-12, equal ODP 603 tons.

The project has achieved the ODS phase out target. It will reduce the consumption of ODS (CFC-12) 635 tons equal to ODP 603.26 tons. The alternative technology is HCFC-22, which has 0.05 ODP. Therefore, HCFC-22 technology is a transitional technology and the ultimate target is the refrigerating compressor containing no ODP. After the implementation of the project, the company will invest its own capital to substitute HCFC-22 by using HFC-134a technology. The 4 small company's baseline equipment and product line that are used to produce ODS products have been disposed and the company can never resume the production of CFC-12 compressors.

The quality of equipment and capacity of production has been improved through the project implementation. New equipment is well maintained. The quality of HCFC-22 compressors produced by the new technology is better than that of CFC-12 compressors. The new production of HCFC-22 compressors has met technical specification provided by suppliers and met the State Standards.

Domestic refrigeration :

Name of firm: Guizhou Haier Electrical Appliance Co.

Phone number: +86-13885230123

Contact person: Huang Peiming

Brief description of the project and accomplishments:

Guizhou Haier Electrical Appliance Co was approved and funded by SEPA to substitute CFC-11 and CFC-12 by cyclopentane and iso-butane in the refrigerator production in 2003. It is the part of Sector Plan CFC Final Phase-out in Domestic Refrigeration and Domestic Refrigeration Compressors. Guizhou Haier purchased the CFC-free equipments and finished the installation and operation, after then they destroyed the former ODS equipments.

The amount of phasing-out CFC-11 of the project is 338 tons, and the amount of CFC-12 is 86.4 tons. The total amount of phasing-out CFCs is 424.4 tons, and it exceeds 284.4 tons than the project objective which is 140 tons.

The purchased equipments operate well, and they can satisfy the production and quality requirements of the enterprise.

The former equipments used for ODS production have been destroyed according to the set procedure.

The project complies with the regulations of environmental protection and fire safety, as well as it has passed the inspection and acceptance of local environmental protection bureau and fire department.

The enterprise has not been using ODS for production after completing the reconstruction in August 2005.

Name of firm: Hisense Beijing Electric Co., Ltd.

Phone number:+86-10-69251311

Contact person: Yang Zhanjun

Brief description of the project and accomplishments:

Hisense Beijing Electric Co., Ltd. was approved and funded by SEPA to substitute CFC-11 and CFC-12 by cyclopentane and iso-butane in the refrigerator production in 2003. It is the part of Sector Plan CFC Final Phase-out in Domestic Refrigeration and Domestic Refrigeration Compressors. Beijing Hisense had signed the equipments purchase contract in the form of bidding, and then Beijing Hisense received equipments from suppliers and destroyed the ODS related equipments.

In 2005, three high pressure foaming machines were replaced, and jigs of three sets cabinet foaming line and three sets of door foaming line were rebuilt.

According to the technical requirements of the cyclopentane technology being introduced, Hisense installed ventilation system, gas detection system and fire alarm system for safety of premix and foaming area. One new set of emergency generator and electric cableing, air compressor, nitrogen generator and pipeline were put into use. Installation of ventilation system and nitrogen transportation system were completed.

From December 2005 to January 2006, the cyclopentane storage area was constructed, a set of cyclopentane / polyol mixing station was installed, and grounding network and storage area reconstruction was completed according to technological requirements of the cyclopentane conversion.

From November 2005 to April 2006, Beijing Hisense completed security test for cyclopentane, adjusting and compiling operation specification, work description, operator training.

Now, Beijing Hisense has completed the CFC-free technical transformation, and there are 161.7 tons CFCs which was phased out through the project. It exceeds 84.08 tons than the project objective which is 77.62 tons.

Projects working with schools or universities :

Name of institution: College Of Environmental Sciences, Peking University

Contact person:Hu Jianxin

Phone number:+86-10-62756593

Brief description of project and accomplishment:

The College of Environmental Sciences, Peking University (PKU) is the main policy supporting institution of SEPA for implementing the Montreal Protocol. They drafted *China's Country Program for ODS Phaseout*, the first CP for an Article 5 country, in 1993 and updated it in 1999. They also drafted the *Study on the Strategy for the Long Term Management of HCFCs in China* in 2005 and developed 9 sector plans for ODS phaseout, which will eliminate 91,433 ODP-tonnes of production and 64,326 ODP-tonnes of consumption in China. In addition, they developed policy instruments such as China's tradable ODS production quota system. The College of Environmental Sciences, PKU has conducted training workshops and developed training materials and established the first Chinese website on ozone layer protection. In a word, they have led efforts to phase out ozone-depleting substances in China.

Name of institution: Beijing University of Chemical Technology (BUCT)

Contact person: LI Chunxi

Phone number: +86-10-64410308

Brief description of project and accomplishment:

BUCT is one of the most important technology support units of SEPA. BUCT has undertaken the PPA projects of sector plan compilation for PAI and PAII phaseout and contributed to the CTC/PAI & II agreements reached between China government and ExCom. BUCT has also developed some TA projects under CTC/PA sector plan, including domestic survey of potential PA enterprises, verification of CTC feedstock users, CTC dealers and PAII enterprises, etc. BUCT has successfully developed the technology of converting CTC to CM1. Now the technology has been transferred to CM producers and helped to solve the potential problem of non-compliance of CTC by-production.

Name of institution: Beijing Technology and Business University

Contact person: Ms. Chen Qian

Phone number: +86-10-68983612

Project: Formulation/revision of related standards in the PU foam sector in China

Brief description of project and accomplishment:

The existing standards of PU foam industry in China are mostly based on the premise of using CFC-11 as blowing agent, which have a negative impact on the production, inspection and usage of products by Non-ODS substitutes. Apart from national standards, there are many sector standards as well as enterprise standards formulated by various agencies. In 2002 a thorough survey was done under 2002 foam annual program to find out the situation of the existing PU foam standards in China. The project collected a number of relevant international standards and existing Chinese standards and a formulation/revision timetable was framed upon those information collected. BTBU as a consultant agency has undertaken 2 phases of formulation and revision tasks. A total of 13 related standards have been formulated/revision among which four have been promulgated.

Important national stakeholders and or champions who have helped in implementation and might speak to press

Entity: China Household Electrical Appliances Association(CHEAA)

Contact person: Jiang Feng

Phone number: +86-13901085195

Entity: College Of Environmental Sciences, Peking University

Contact person: Hu Jianxin

Phone number: +86-10-62756593

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank ✓
- UNIDO ✓
- UNEP ✓
- UNDP ✓

Name and Coordinates of Other Key Contacts Including:

- **Delegates to Protocol Meetings**

Name: Yue Ruisheng

Entity: State Environment Protection Administration (SEPA)

Phone Number : +86-10-66556492

- **National or international award winners**

Winner : China's NOU

Contact person: Wang Jirong

Phone number:+86-10-66556677

Award: 2003 Outstanding National Ozone Unit (NOU) Awards

Winner: Liu Yi

Entity: State Environment Protection Administration (SEPA)

Phone Number +86-10-84640396

Award: USEPA Stratospheric Ozone Protection Awards, 1999 Individual Awards

Winner: Tang Xiaoyan

Entity: College Of Environmental Sciences, Peking University

Phone Number: +86-10-62751925

Award: UNEP/WMO Vienna Convention Award

Winners:Jilin, Hai'nan, Shenzhen, Wuhan Xi'an Langfang, Nantong

Award: Ozone Protection Friendly Province/City

- **National members of Panels**

Name: Hu Jianxin

Entity: College Of Environmental Sciences, Peking University

Phone Number: +86-10-62756593

Name: Cao Aocheng

Entity: Ministry of Agriculture, PRC

Phone Number: +86-10-62815940

Name: Jiang Biao

Entity: Shanghai Institute of Organic Chemistry Chinese Academy of Sciences

Phone Number: +86-21-54925207

Name: Zhou Kaixuan

Entity: General Administration of Civil Aviation of China(CAAC)

Phone Number +86-10-64091321

- **National members of Executive**

Name: Wen Wurui

Entity: Foreign Economic Cooperation Office (FECO)

State Environment Protection Administration (SEPA)

Phone Number: +86-10-66532368

中国信息

[国家名称]：中华人民共和国

批准加入蒙特利尔议定书时间：1991年6月14日

蒙特利尔议定书国内主要执行单位：国家环境保护总局

联系人：

姓名：岳瑞生

单位：国家环境保护总局国际合作司

地址：北京市西城区西直门南小街115号

电话：+86-10-66556492

姓名：温武瑞

单位：国家环境保护总局对外经济领导小组办公室

地址：北京市西城区西直门南小街115号

电话：+86-10-66556583

姓名：李新民

单位：国家环境保护总局污染控制司

地址：北京市西城区西直门南小街115号

电话：+86-10-66556234

消耗臭氧层物质消费量历史峰值及最新（2005年）消费量(ODP吨)：

	消费量峰值	2005年消费量
CFCs(1986)	75426.8 (1995)	13341.25
哈龙	35731.0 (1997)	4446.51
CTC	29617 (1999)	1060.33
TCA	816.6 (1989)	186.59
甲基溴	2100.6 (2000)	620.17

国家批准项目数量：

254个单个项目

15个行业计划

赠款总金额:

约7.65亿美元

各行业代表项目企业及项目简介:

泡沫行业项目:

项目企业: 兰州华宇航天新材料有限公司

联系人: 朱贤

电话: +86-13363608246

项目概况及成果简介:

这是由兰州华宇航天新材料有限公司作为牵头企业的工作重组项目。该项目收购重组了19家小型泡沫生产企业。被重组小企业从牵头企业拿到补偿资金并停止使用CFC-

11作为发泡剂生产。2004年1月兰州华宇新材料有限公司与国家环保总局外经办签订了淘汰合同,淘汰了1,060.08ODP吨的CFC-

11,获得赠款资金5,125,900美元。项目中34台套CFC发泡设备被销毁。购买了5套新的无CFC泡沫生产装置及辅助设备。从2006年初,该项目的替代改造已经全部完成,兰州华宇航天新材料有限公司已经开始无CFC的泡沫生产。

甲基溴行业项目:

项目合作单位: 国家粮食局

联系人: 谭本刚

电话: +86-10-63906972

项目概况及成果简介:

环保总局外经办与国家粮食局自2004年成立了粮食仓储行业淘汰甲基溴联合工作组。该行业得到146万美元赠款用于在2006年底前实现甲基溴的淘汰。到目前为止,包括调研和培训等五个技术援助项目已经完成。基于调研的结果,确定了磷化氢的替代技术,并且34个粮库被确定为技术中心而接受多边基金的资助。通过赠款资金购买的替代设备已经在受赠粮库正常运转。2006年9月,国家环保总局与国家粮食局联合发布了粮食仓储禁止使用甲基溴的消费禁令。自2006年12月31日起,在粮食仓储行业将不再允许使用甲基溴作为熏蒸剂。通过上述一系列活动,粮食仓储行业实现了2006年12月31日前淘汰126ODP吨的目标。

CTC/PA项目:

1、项目企业: 四川鸿鹤精细化工股份公司

联系人: 金涛

电话：+86-813-4663187

项目概况及成果简介：

四川鸿鹤精细化工有限责任公司是一家属于四氯化碳 (CTC) 生产行业计划下的 CTC 单/联产企业，是全国最大的甲烷氯化物生产基地，现有装置能力135,000吨/年，单产装置CTC生产能力为16,000吨/年。为履行国际公约，配合国家环保总局执行蒙特利尔议定书所规定的国际义务，该公司自2004年起开始部分拆除单产CTC反应器，逐步削减CTC的生产，并于2006年3月份全部关闭并拆除了单产CTC生产装置。截止到2006年底，CTC削减总量已达到13,806吨，为履行国际公约作出了积极贡献。同时为进一步确保国家顺利履约，该公司主动与国外相关公司联系，引进CTC转化技术，于2006年开始建设12,000吨/年CTC转化四氯乙烯项目，预计在2007年3月投产试车。该转化装置的建成，不仅使鸿鹤公司自身副产CTC得到有效转化，还可协助周边其他公司处置多余副产CTC，对甲烷氯化物副产CTC的有效处理有积极的意义。

2. 项目企业：上海氯碱化工有限公司

联系人：陈江

电话：+86-21-64340000-3438

项目概况及成果简介：

上海氯碱化工股份有限公司是一家CTC行业计划下的联产企业，PCE/CTC生产装置总能力为1万吨/年。自2003年以来，该公司一直认真配合国家CTC削减和淘汰计划工作，积极开展CTC转化、处置等调查研究与科研开发工作。公司利用现有装置的特性，以理论和经验为指导，制定了详细的四氯乙烯工业化试验方案，在2006年11月份进行了为期二十多天的全PCE生产工业化试验，取得了圆满成功。同时，该公司的有机废液焚烧装置经过多年的运行及优化改造、完善，运行稳定可靠，每年可处置CTC有机溶液4800吨。至此，上海氯碱已完全具备了CTC转化及焚烧处置的双重能力，在CTC履约工作上取得了实质性进展。

3. 项目企业：江苏梅兰化工股份有限公司

联系人：黄鸿儒

电话：+86-13952613169

项目概况及成果简介：

江苏梅兰化工股份有限公司是一家属于四氯化碳 (CTC) 生产行业计划下的CTC联产企业。2004年11月在北京化工大学CTC转产一氯甲烷小试成果基础上，于2005年5月利用原有3万吨/年甲烷氯化物装置自主开发建成了2000吨/年CTC转产一氯甲烷试验性装置，后经进一步完善和优化，现该装置生产能力已达8,000吨/年，并于2006年6月顺利通过了来自国家环保总局、世界银行和有关部门组织的专家验收。该转化装置的建成，不仅可以处置梅兰公司自身所有副产CTC，而且作为我国第一套工业化的转化装置，填补了国内CTC转化技术空白，对国家安全履约具有重大意义。同时，梅兰

公司还积极进行CTC转化技术的推广和应用工作，至今已将此技术成功推广到国内两家甲烷氯化物生产企业中，为国家CTC履约作出了更大的贡献。

4、项目企业：上海三爱富新材料股份有限公司

联系人：唐杰

电话：86-21-64340154-3210

项目概况及成果简介：

根据CTC/PAI协议及APP协议，CFC - 113用于助剂用途的消费必须在2006年1月1日前彻底淘汰。该企业在PTFE（聚四氟乙烯）的生产过程中使用CFC - 113作为助剂。在2003年时，该行业认为要淘汰CFC - 113非常困难，因为潜在的替代溶剂非常昂贵而且技术不成熟。2006年12月，国家环保总局与该企业签署了CFC - 113的消费削减合同，要求该企业改造PTFE生产线以保证国家水平的CFC - 113消费目标可以满足，而且将来可以在改造的生产线上直接使用替代溶剂。

合同签署之后，该企业按照合同要求对生产线进行了改造。同时，该企业还致力于开发新的费用有效性更好的替代溶剂。在2004年底之前，该企业开始使用新的溶剂并实现了CFC - 113的彻底消费淘汰。该时间比CTC/PAI协议中规定的最后期限还早了一年。2005年底，该企业还将其开发的技术转让给另外一家PTFE企业，帮助其实现了CFC - 113消费淘汰目标。

汽车空调行业项目：

1、项目企业：一汽牡丹江汽车空调压缩机有限公司

联系人：孙德生

电话：+86-453-6173004

项目概况及成果简介：

该企业是汽车空调压缩机专业生产厂，1999年 - 2001年该企业利用多边基金提供的赠款828,503.95美元和企业自有资金940,560美元，共计1,769,063.95美元，引进美国通用公司HFC - 134a替代技术软件；新增和改造部分相关设备，如采购了PAG注油净油机、超声波清洗机、HFC - 134a充注回收系统，改造了性能试验台、寿命试验台、活塞锁紧机及刀夹量具；完成HFC - 134a制冷技术培训。实现从使用CFC - 12制冷剂汽车空调压缩机产品向HFC - 134a产品转换，并通过了国家汽车产品认证中心的认证，为中国汽车行业全部淘汰CFC - 12的空调器奠定了物质基础。

2、项目企业：大洋汽车空调工程（大连）有限公司

联系人：吴国斌

电话：+86-411-87301071-612

项目概况及成果简介：

该公司是汽车空调热交换器的专业生产厂。该公司项目由多边基金提供的赠款541,632美元，企业自筹资金775,048美元，共计1,316,680美元。企业利用自筹资金引进了摩丁公司的平行流生产技术专利。利用赠款采购了冲压机、集管冲排孔模具及冲头、翅片刀、轴向密封管端成形机、平行流氦检漏装置等设备。通过淘汰项目的执行，该公司发展成为能生产16、18.8、22三种类型各种规格的HFC - 134a平行流冷凝器的企业，大大充实、提高了公司的在市场竞争中的实力。

3、项目企业：南京新星汽车橡胶厂

联系人：朱金顺

电话：+86-25-83130896

项目概况及成果简介：

该企业长期从事橡胶制品的设计和开发制造，主要的产品是为汽车配套的空调软管、制动软管、燃油管及密封件等。由于汽车空调使用HFC - 134a后，胶管和密封件的耐渗透性能必须提高，因此有必要对空调软管进行改造。该项目由多边基金提供的赠款1,037,332美元，企业自筹资金458,398美元，共计1,495,730美元。该企业利用原有CFC - 12空调管生产线大部分设备，引进了关键的尼龙挤出机、TPX包覆机等设备，自行研制了编织生产线和挤出生产线部分辅助设备，经这三部分设备的组合、联线、并实现自动控制，工厂在短短的时间内，连续作战，一次调试成功，生产出的产品一次通过国家认证，并受到汽车制造厂用户的好评。

哈龙生产行业淘汰项目

项目企业：浙江省东阳化工有限公司

联系人：王天锴

电话：+86-579-6686205

项目概况及成果简介：

浙江省东阳化工有限公司是我国最大的哈龙1211灭火剂生产企业，年最高产量曾达到4500吨，产量约占全国总产量的30%。

自1998年开始实施哈龙淘汰以来，该企业先后4次签订了哈龙1211灭火剂生产淘汰合同，累计淘汰哈龙1211灭火剂生产配额2993吨，利用蒙特利尔议定书多边基金赠款合计501.256万美元。在2006年，该企业全部拆除其哈龙1211生产线，也是我国最后一个拆除哈龙1211生产线的企业，使我国在2006年实现了全部淘汰哈龙1211生产的目标，为我国哈龙行业整体淘汰计划的顺利实施做出了重要贡献。

该企业4次签订生产淘汰合同情况如下：

1998年11月26日签署合同：赠款976,777美元，淘汰654吨；

1999年12月30日签署合同：赠款1,251,784美元，淘汰779吨；

2002年12月20日签署合同，赠款408,000美元，淘汰240吨；

2005年12月6日签署合同，赠款2,376,000美元，淘汰1320吨。

清洗行业项目

1、项目企业：浙江三花制冷集团有限公司

联系人：吕灵秋

电话：+86-575-6225297

项目概况及成果简介：

浙江三花制冷集团有限公司参加了中国清洗行业2002年度ODS淘汰项目，共淘汰TCA 10 ODP吨，CFC-113 69.6

ODP吨，合同总金额5,567,120元人民币。该公司的主要产品包括家用空调、汽车空调、家用冰箱及冷冻冷藏等，这些产品对其内部零部件的洁净度有着非常高的要求。

该公司在参加项目前一直采用CFC-

113、TCA等清洗剂进行零部件、半成品的清洗工作，清洗剂年消耗量在80吨ODP左右。

启动项目后，该公司逐步淘汰、改造了原有的旧设备，并采用了包括PPG清洗剂、碳氢清洗剂及水基清洗剂(SF-

111)等非ODS清洗剂。经过技术改造后的产品质量符合要求，说明新清洗剂完全能够替代原来的CFC-

113、TCA。产品中产销量全球第一的四通换向阀的清洗全部采用非ODS清洗剂。

除此以外，采用新非ODS清洗剂后，由于挥发量减少，清洗剂的年消耗量降至20吨左右。

2、项目企业：重庆川仪一厂

联系人：于朝清

电话：+86-23-68223942

项目概况及成果简介：

2001年2月21日，重庆川仪一厂和国家环保总局外经办正式签署了2000年度ODS清洗剂消费淘汰合同，共淘汰8.6

ODP吨TCA，合同总金额200万元人民币。该项目在两年的时间内按合同要求完成。

该厂的主要产品有贵金属材料和制品、热点材料、电阻材料等12大类200余品种。

该厂主要使用TCA进行清洗，自1997年以来TCA消费量有较大增长，并在2000年达到86吨/年。

该厂选择的替代技术为超声波清洗机替代技术路线，并从非-

ODS、安全性好、无毒等角度考虑采用了成都某公司的RF - 99型清洗剂作为TCA的替代品种。该厂新清洗剂的替代工艺试验从2001年1月开始，至2002年3月全部采用该清洗剂，在新设备上生产。目前该厂产品质量稳定，相对以前，产量有大幅上涨。

CFCs生产淘汰项目

1、项目企业：常熟三爱富氟化工有限责任公司（原江苏常熟制冷剂厂）

联系人：沈雪忠

电话：+86-520-52621243，13901572765

项目概况及成果简介：

该企业承担的是1999年3月第27次执委会批准的“关于中国生产行业计划的协议”规定的CFC生产淘汰项目。该协议共资助1.5亿美元，用于37个企业在2010年前逐年淘汰CFC生产量，共计50,351吨ODP；同时承担2004年11月第44次执委会批准的“中国CFCs/CTC/Halon加速淘汰协议”，该协议资助1000万美元，其中将中国CFCs淘汰的最后期限由2010年提前到2007年7月1日（除满足MDI需求外）。

该企业是中国产量最大、品种最多的CFC生产企业，承担了二个“协议”中属于该企业应承担的CFC生产淘汰项目。从执行“协议”的1999 - 2006年，共计淘汰CFCs 9643吨ODP；占行业淘汰量25.8%。其中于2005年底关闭了CFC - 113生产线，实现2006年淘汰CFC - 113计550吨ODP目标，有效配合了清洗行业实现2006年CFC - 113全部淘汰的计划。

CFC - 11，12，115的生产将于2007年7月1日前停产。继后，将拆除生产装置，完成该企业的全部淘汰项目。

2、项目企业：浙江衢化氟化学有限公司

联系人：汤月明

电话：+86-570-3096522，13705701801

项目概况及成果简介：

该企业承担的是1999年3月第27次执委会批准的“关于中国生产行业计划的协议”规定的CFC生产淘汰项目。该协议共资助1.5亿美元，用于37个企业在2010年前逐年淘汰CFC生产量，共计50351吨ODP。同时承担2004年11月第44次执委会批准的“中国CFCs/CTC/Halon加速淘汰协议”，该协议资助1000万美元，其中将中国CFCs淘汰的最后期限由2010年提前到2007年7月1日（除满足MDI需求外）。

该企业的CFC产量大、装备好，且是唯一的CFC - 11与CFC - 12联产的生产企业。承担了二个“协议”中属于该企业应承担的CFC生产淘汰项目。该企业每年都严格按照生产配额进行生产，产品除供给制冷和发泡等行业使用外，还用于吸入式药用气雾剂（MDI）及外用气雾剂产品中，满足国内、外市场需求。从执行“协议”的1999 - 2006年，共计淘汰CFCs计7,060吨ODP，占行业淘汰量18.9%。

中国CFC的生产，除MDI用途外，将于2007年7月1日前停止生产。而满足MDI用途的生产还将持续2年，该企业是备选该生产的企业之一。

工商制冷行业项目

项目企业：浙江春晖集团有限公司

项目名称：用HCFC-22替代CFC-12作制冷剂生产工商制冷压缩机项目

联系人：丁文俊

电话：+86-575-2152179

项目概况及成果简介：

根据2002年3月蒙特利尔多边基金执委会批准的工商制冷行业机制项目的实施方案，该行业机制项目是在前面19个工商制冷项目完成基础上的行业无氟替代改造收尾项目，共包括五个项目替代改造项目。其中大连第二冷冻机厂项目为自行实施项目；其它四个小项目由浙江春晖集团公司进行工业重组后，由浙江春晖集团有限公司对这四个小项目的原氟利昂生产设备进行统一替代改造。这个项目旨在削减浙江春晖集团有限公司所重组的四家企业（浙江嵊州春联制冷机有限公司、浙江北峰制冷设备有限公司、浙江玉环冰峰制冷设备实业公司、上海闵行冰箱厂）的压缩机所消耗的CFC-12制冷剂，项目包括技术转让与设备的购置，使得现有的CFC-12制冷压缩机的生产替代转换为新设计的HCFC-22制冷压缩机的生产。

该项目实施完成后，用HCFC-22制冷剂替代CFC-12制冷剂的压缩机生产，可每年削减CFC-12达635吨，ODP为603吨。

该项目已经达到预定ODS淘汰量，可以削减ODS（CFC-12）635吨，ODP为603吨。实际执行与项目批准的目标淘汰量一致。替代技术为HCF C-22，尚有0.05的ODP值，因此，HCFC-22技术是过渡技术，最终替代目标为ODP值为零的制冷剂。企业在该项目完成后，将自己再投入资金，最终将以HFC-134A替代HCFC-22的制冷压缩机。企业已将原有四家企业生产ODS制冷压缩机的设备及生产线拆毁，保证不再进行使用ODS物质的压缩机生产。

通过该项目引进的设备的质量与生产能力、设备的维修能力以及产品的加工质量均为良好。新技术生产的压缩机的质量比原来有所提高，符合相关的国家标准。

家用电器项目

1、项目企业：贵州海尔电器有限公司

联系人：黄培明

电话：+86-13885230123

项目概况及成果简介：

2003年，国家环境保护总局批准并资助了贵州海尔电器有限公司进行的在家用冰箱生产过程中通过环戊烷和异丁烷替代CFC-11和CFC-12的技术改造项目。该项目是中国家用制冷行业CFC整体淘汰计划项目的企业技术改造项目的一部分。随后，贵州海尔通过招投标的形式购置了无氟生产设备，并完成安装和调试。

该项目淘汰CFC-12：338吨、CFC-11：86.4吨，共计424.4吨，比项目所设定的淘汰140吨CFC的目标超出了284.4吨；该项目购买的设备均运行正常，满足了企业的生产和质量要求；原生产使用ODS的设备均已按规定程序予以报废；项目完成后，符合国家有关环境保护、消防安全生产等方面的规定，并通过了地方环保、消防等有关部门的审查验收；该企业在今年8月份完成改造以后，已经在生产过程中完全不再使用ODS物质。

2、项目企业：海信（北京）电器有限公司

联系人：杨占军

电话：+86-10-69251311

项目概况及成果简介：

2003年，海信（北京）电器有限公司获得国家环境保护总局的批准和资助开始进行利用异丁烷和环戊烷替代CFC-12和CFC-

11的无氟技术改造项目。该项目是中国家用制冷行业CFC整体淘汰计划项目的企业技术改造项目的一部分。随后，北京海信通过招投标的形式完成了设备采购合同的签订，并按照合同的约定陆续收到设备供应商的设备，并且北京海信拆毁了指定的设备。

2005年9月前完成了对三台高压发泡机的更换，对3台箱体发泡线和3台门体发泡线上的夹具的改造。

2005年9月20日，按照环戊烷技术转换要求，安装了预混和发泡区域装备安全所需要的排风系统、气体探测系统和火灾警报系统。新增一套发电机及其连接电缆、空压机、制氮机和连接管路。完成了排风稀土和氮气输送系统的改造。

2005年12月—

2006年1月，按照环戊烷技术要求转换了发泡炉，安装了一套环戊烷/多元醇混合站和一个环戊烷储罐，完成土建、储罐的改造工程。

2005年11月—

2006年4月23日完成环戊烷安全性测试、调整、编制操作指导书、控工序说明、操作人员培训工作。

目前，北京海信已经完成了无氟替代改造。通过北京海信项目的实施，完成了CFCs物质的淘汰量为161.7吨。这比项目原定的77.62吨目标超出了84.08吨。

与高校合作技术援助项目

1、单位名称：北京大学环境学院

联系人：胡建信

电话：+86-10-62756593

项目概况及成果简介：

北京大学环境学院做为国家环境保护总局在履行《蒙特利尔议定书》过程中主要的政策支持机构，自80年代末期就开始了相关研究和履约决策支持活动。北京大学环

境学院于1993年完成编写以及在1999年更新的《中国逐步淘汰臭氧层消耗物质国家方案》，不仅是我国淘汰ODS前期最重要的指导文件，而且被翻译成6国文字作为其他许多国家编制国家方案的范本。2005年开始，环境学院编制了《中国长期管理HCF Cs战略研究》报告并已提交多边基金执委会。

另外，北京大学环境学院还承担了哈龙、CFCs生产、CTC、TCA生产、汽车空调、烟草、清洗、泡沫、工商制冷、加速淘汰等多个行业计划的编制工作，为中国保护臭氧层工作提供了重要决策支持，做出了突出贡献。

2、单位名称：北京化工大学 (BUCT)

联系人：李春喜

电话：+86-10-64410308

项目概况及成果简介：

BUCT是国家环保总局最重要的技术支撑单位之一。BUCT曾承担了PAI和PAII行业淘汰计划编制的PPA (项目准备金) 项目，并为中国政府与多边基金执委会签署CTC/PAI & II协议做出了贡献。BUCT还承担了CTC/PA行业计划下的一些技援项目，包括新助剂企业的国内情况调研、CTC原料用户、经销商及PAII企业的核查等。BUCT还成功研发了将四氯化碳转化为一氯甲烷 (CM1) 的技术。目前该技术已转让给甲烷氯化物 (CM) 生产企业，帮助其解决了潜在的CTC副产不履约的问题。

3、单位名称：北京工商大学

联系人：陈倩

电话：+86-10-68983612

项目名称：聚氨酯泡沫行业相关标准的修订制定

项目概况及成果简介：

中国聚氨酯泡沫行业目前使用的大部分标准都是基于CFC-11发泡剂编制的，这些标准已经不能适应CFC替代后，使用非ODS发泡剂的产品检测和应。除了国家标准，泡沫行业还存在大量行业标准，企业标准等。为了摸清目前标准的情况，2002年泡沫行业组织了一个调研的技援项目，对目前使用的标准进行了一次深入的调查。这个调查项目搜集了大批国内外的相关标准，在数据技术上，形成了一个泡沫行业的标准修订时间计划表。北京工商大学作为一个咨询机构，已经承担了两个阶段的标准修订任务，完成了13项标准的修订，制定工作。在完成的标准中有四项已经颁布实施。

为执行蒙特利尔议定书做出突出贡献的相关单位

单位：中国家用电器协会 (CHEAA)

联系人：姜风

电话：+86-13901085195

单位：北京大学环境学院

联系人：唐孝炎

电话：+86-10-62751925

请标出协助国家完成淘汰目标的国际执行机构

- World Bank √
- UNIDO √
- UNEP √
- UNDP √

缔约方大会、执委会、技术经济评估小组及奖项获得者信息，包括：

- 缔约方大会联系人

姓名：岳瑞生

单位：国家环境保护总局 (SEPA)

电话：+86-10-66556492

- 国内外相关奖项获得者

单位：中国国家臭氧机构 (NOU)

联系人：汪纪戎

电话：+86-10-66556677

奖项：2003年UNEP杰出国家臭氧机构奖

姓名：刘亿

单位：国家环境保护总局

电话：+86-10-84640396

奖项：1999年美国环境署平流层臭氧保护奖个人奖

姓名：唐孝炎

单位：北京大学环境学院

电话：+86-10-62751925

奖项：维也纳公约奖

吉林省、海南省、深圳市、武汉市、西安市、廊坊市、南通市

奖项：保护臭氧层示范省 (市)

- 技术经济评估小组成员

姓名：胡建信

单位：北京大学环境学院

电话：+86-10-62756593

姓名：曹勘程

单位：中华人民共和国农业部

电话：+86-10-62815940

姓名：姜标

单位：中国科学院上海有机化学研究所

电话：+86-21-54925207

姓名：周凯旋

单位：国家民航总局 (CAAC)

电话：+86-10-64091321

- 执委会成员

姓名：温武瑞

单位：国家环境保护总局对外经济领导小组办公室

电话：+86-10-66532368

Malaysia's Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 29 August 1989

National Entity(s) Primarily responsible for Implementation of the Protocol::

Department Of Environment, Ministry Of Natural Resources & Environment

The primary contact(s) for Press inquiries

Name : Director General

Entity

Address : Department Of Environment, Ministry Of Natural Resources &
Environment, Level 1 – 4 Podium Block 2 & 3,
Lot 4G3, Precint 4, Federal Government Administrative Centre
62574 Putrajaya, Malaysia

Phone Number : 603-88712000

Fax : 603-88889987

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout:

	Peak Use	2005 Use
CFCs (1986)	Refrigerant (Servicing)	661.767
Halons	Fire – Fighting	None
Carbon Tetrachloride	Solvent	None
Methyl Chloroform	Solvent	61.77
Methyl Bromide	Fumigation	18.060 (Non-QPS) 252.290 (QPS)

Number of Projects/Activities funded in the country:

7 Projects

Amount of money approved for the country:

USD 36,500,000 (Phase I), USD 11,517,005 (Phase II)

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

Foam	Jumaya Industries Sdn Bhd	No 7 Jln Kilang, Ind Dato' Onn		80350	Johor Bahru	Johor
Foam	Leading Refrig. And Eng. Sdn Bhd	21 Jln Mewah Ria 1/5	Tmn Bkt Mewah	81200	Johor Bahru	Johor
Foam	Island Resources Co.	Lot 2377 Batu 23, Jln Johor		81500	Pekan Nenas	Johor
Foam	Star Foam Paper Products Sdn Bhd	Lot 3806 Jln Seri Bunian	Batu 33, Off Jln Joh	82000	Pontian	Johor
Foam	Dream Products Sdn Bhd	Lot 22 Ind Tanjung Agas		84000	Muar	Johor
Foam	Eversoft Foam Industries Sdn Bhd	PLO 26, Ind Jorak	Bukit Pasir	84300	Muar	Johor
Foam	Nite Beuty Industry Sdn Bhd	117-7 Jln Gerisek	Bukit Gambir	84800	Muar	Johor
Foam	PKL Insulation				Johor Bahru	Johor
Foam	Heng Huat Furniture	579 Luar Desa Jawi	Jln Changkat	14200	Sg Jawi	Kedah
Foam	Visdamax (M) Sdn Bhd	Lot 84 Lorong Perusahaan 6A	Ind Kulim	09000	Kulim	Kedah
Foam	OAL Enterprise	Marcopolo, Jln Wang Tepus	Tanah Merah		Jitra	Kedah
Foam	Yong Tuck Refrigerator Tdg Co.				Melaka	Melaka
Foam	Far East Foam Industry Sdn Bhd	Lot 805 Km 6 Jln Jelebu		70100	Seremban	N. Sembilan
Foam	Phoenix Base Sdn Bhd	No 1456 Okit 264 Tgt Perusahaan 6C	Ind Prai	13600	Prai	P. Pinang
Foam	Pangkat Refrigeration Sdn Bhd	No 11 Jalan Sri Bahari		10050	Penang	P. Pinang
Foam	Penang Trading Co	No 3 Jln IKS	Industri Ringan Juru	14100	Simpang Empat	P. Pinang
Foam	Sy. Heng Huat Enterprise (M) Sdn Bhd	928 Jln 5	Kampong Valdor	14200	Sg Bakap	P. Pinang
Foam	Shaga Cooling Technology Sdn Bhd				Nibong Tebal	P. Pinang
Foam	Associated Air-Pack Industries Sdn Bhd	9 Persiaran Rishah 9	Ind Silibin	30100	Ipoh	Perak
Foam	Kean Chong Sdn Bhd	Lot 1850 Batu 21/2 Jln Lahat		30200	Ipoh	Perak
Foam	Pulai Lampak Industries Sdn Bhd	Lot 156092 Ind Pengkalan Pegoh		31500	Lahat	Perak
Foam	Saferay (M) Sdn Bhd				Taiping	Perak
Foam	C.C Chong Co Sdn Bhd				Sandakan	Sabah
Foam	Ming Soon Enterprise Sdn Bhd				Kuching	Sarawak
Foam	Urethane Technologies Sdn Bhd	Lot 2020, Seksyen 66	KTLD		Kuching	Sarawak
Foam	N.L.Y Sdn Bhd	Lot 192 Jln TUDM	Kg Baru Subang	40150	Subang	Selangor
Foam	Ricwill (M) Sdn Bhd	No 5 Jln Utarid U5/13	Seksyen U5	40150	Shah Alam	Selangor
Foam	P.U Mate Industries Sdn Bhd	Lot 193-D, Jln TUDM	Kampong Baru Subang	40150	Shah Alam	Selangor
Foam	Masterfoam Products Sdn Bhd	Lot 237, Jln TUDM	Kampong Baru Subang	40150	Shah Alam	Selangor
Foam	Kejuruteraan Transfreeze Sdn Bhd	No 8A, Jln Bagan Nira 26/8	Seksyen 26	40400	Shah Alam	Selangor
Foam	Muda Murni Sdn Bhd	No 107 Jln 1, Kaw 3	Taman Kelang Jaya	41200	Kelang	Selangor
Foam	Cycle World Sdn Bhd	Lot 23261 Jln Sg Puluh	Off Jln Kapar	42100	Kelang	Selangor

Foam	Insafoam Insulation Co	Lot 3 jln 6B Kaw MIEL Balakong		43200	Cheras Jaya	Selangor
Foam	Tenaga Teguh Sdn Bhd	Lot 17-20 Ind Bersatu	Jln 1, Cheras Jaya	43200	Cheras	Selangor
Foam	Allied Foam Insulation Sdn Bhd	1826F Jln F Jln SK 6/1		43300	Seri Kembangan	Selangor
Foam	Artwright Technology Sdn Bhd	Lot 1834 & 1835 Jln College		43300	Seri Kembangan	Selangor
Foam	Chong Brother Group of Companies	35 Jln P/16, Tmn Ind Selaman	Seksyen 10	43650	B. B. Bangi	Selangor
Foam	Perniagaan Hower Sdn Bhd	Lot 9869 Lorong Anggerik		45300	Sg Besar	Selangor
Foam	Automated Plastics System Sdn Bhd	17 Jln 51A/227		46100	Petaling Jaya	Selangor
Foam	Anchor Profit Sdn Bhd	859 Jln Kampong	Sg Buluh	47000	Sg Buluh	Selangor
Foam	Rigid Foam Industries Sdn Bhd	121 Batu 13 Jln Subang		47000	Sg Buluh	Selangor
Foam	Summer Technologies Sdn Bhd	10 Jln TSB 1	Ind Sungai Buluh	47000	Sg Buluh	Selangor
Foam	Sze Chuan Sdn Bhd	7 Jln Rajawali 1A, Ind Puchong Jaya	Jln Puchong	47100	Puchong	Selangor
Foam	Rollbond Sdn Bhd	10B Jln SS 20/10, Damasara Kim		47400	Petaling Jaya	Selangor
Foam	Kemas Mekar (M) Sdn Bhd	7 Jln 6/14 Lot 108	Off Jln Tasek Tambahan	68000	Ampang	Selangor
Foam	Franck Chee Engineering Sdn Bhd	2, Jln 1/77B Off Chankat Tambi Dollah	Jln Merdeka	68000	Ampang	Selangor
Foam	Pexafoam Sdn Bhd	Lot 9681 Desa Aman	Kepong	47000	Kepong	Wilayah
Foam	Wong Brothers Refrigeration Sdn Bhd	429 Batu 3	Jalan Ipoh	51200	KL	Wilayah
Foam	TM Cooling Technology Sdn Bhd	20 jln 7, Kepong Baru		52100	KL	Wilayah
Foam	RCA Group	RC & A, 9 Lorong Thambi 2	Off Changkat Thambi Dollah	55100	KL	Wilayah
Foam	Bristol Sden Bhd	No 36 Jln 7/108C Tmn Sg Besi		57100	KL	Wilayah
Foam	Florafoam Marketing Sdn Bhd				KL	Wilayah

Slabstock (SMI)	Foamtek Trading Sdn Bhd	14 Jln Anggerik 28	Tmn Johor Jaya		Johor Bahru	Johor
Slabstock (SMI)	Maju Foam Industries Sdn Bhd	Lot 586 Jln Sg Burung	Ind Plentong	81500	Pekan Nenas	Johor
Slabstock (SMI)	Crystal Foam Industries Sdn Bhd	3A Jln Hj Saat	Bt 14 3/4 Sg Tiram	81800	Ulu Tiram	Johor
Slabstock (SMI)	JB Foam Industries	Lot 197 - 3 Jln Ban Foo		81800	Ulu Tiram	Johor
Slabstock (SMI)	Mikazo Industries Sdn Bhd	Lot 548 Batu 161/2 Jln Sg Tiram		81800	Ulu Tiram	Johor
Slabstock (SMI)	Recos Industries Sdn Bhd	Lot 2114 3637 Jln Perahu, Limau	Ind Tongkang Pecah	83010	Batu Pahat	Johor
Slabstock (SMI)	Wansern Foam Ind Sdn Bhd	3787, GM128 Mukim Limau	Kg Bindu, Tongkang Pecah	83010	Batu Pahat	Johor
Slabstock (SMI)	Alam Trading Sdn Bhd	Lot 4361, 2 3/4 Jln Sg Abong		84000	Muar	Johor
Slabstock (SMI)	Sin Hong Huat ent.	15 kg Kilang Ketapan		08300	Gurun	Kedah
Slabstock (SMI)	Perusahaan Sweet Dream (KB) Sdn Bhd	Lot PT 629, Mukim panchor		16100	Kemumin	Kelantan
Slabstock (SMI)	Cosmo Industrial Co. (M) Sdn Bhd	Lot 1440, Bt 6 Jln Seremban	Mambau	70300	Seremban	N. Sembilan

Slabstock (SMI)	HMK Sdn Bhd	Lot 1883, Batu 21/2 Jln Sikamat		70400	Seremban	N. Sembilan
Slabstock (SMI)	Greenland Enterprise Sdn Bhd	106, Batu 8 Labu		71900	Seremban	N. Sembilan
Slabstock (SMI)	Beng Ee Trading	673 Lorong Kubur		12200	Butterworth	P. Pinang
Slabstock (SMI)	Lee Tatt Ind Company	8 Lorong Nagasari 11	Taman Nagasari	13600	Prai	P. Pinang
Slabstock (SMI)	Syarikat United Chemicals Industries	Lot 46, Lorong Perusahaan Maju 8	Fasa 4	13600	Prai	P. Pinang
Slabstock (SMI)	Ban Leng Enterprise Co	TBP 3115 Mk 14	Bukit Minyak	14000	Bt Mertajam	P. Pinang
Slabstock (SMI)	Jaya Chemicals (M) Sdn Bhd	2376 Jln Kelang		14300	Nibong Tebal	P. Pinang
Slabstock (SMI)	Kean Cheong Industries	1456 Perusahaan Perai			Prai	P. Pinang
Slabstock (SMI)	Golden Land Sponge Manufacturer	10 Jln Johan 1/3	Ind. Pengkalan 2	31550	Ipoh	Perak
Slabstock (SMI)	Lita Sponge Manufacture	Lot 17 Jln Johan 1/3	Ind. Pengkalan 2	31550	Ipoh	Perak
Slabstock (SMI)	Malwin Sdn Bhd	89357 Inanam Baru	Bt 71/2 Jln Tuaran	88812	Kota Kinabalu	Sabah
Slabstock (SMI)	Weng Sing (Foam) Manufacturer	Batu 15, Jln Penampang		88824	Kota Kinabalu	Sabah
Slabstock (SMI)	Sabah Plastic Foam Sdn Bhd	Batu 71/2 Jln Tuanam	Inanam Light Rd	88826	Kota Kinabalu	Sabah
Slabstock (SMI)	Keng Soon Foam Manufacturer	Jln Nuntum, Inanam WDT No 3		88990	Kota Kinabalu	Sabah
Slabstock (SMI)	Sandakan Foam Sdn Bhd	Lot 3, Ind Hoak Send	Batu 323/4 North Road	90009	Sandakan	Sabah
Slabstock (SMI)	Ka Lian PU Foam Manufacture	Ulu Sibuga		90717	Sandakan	Sabah
Slabstock (SMI)	Kok Seng Foam Manufacturer	Jalan Bunga Raya		91000	Tawau	Sabah
Slabstock (SMI)	Evergreen Plastic Manufacturer Sdn Bhd	Lot 2086 Jln Tawau Lama		91008	Tawau	Sabah
Slabstock (SMI)	Syarikat Miri Sponge Products	TB 2086 Jln Tawau Lama		91008	Tawau	Sabah
Slabstock (SMI)	Kuching Plastic Ind. Co Sdn Bhd	No 3 - 5, Lot 665 - 667 Batu 3	Roock Road	93250	Kuching	Sarawak
Slabstock (SMI)	Seng Yan Enterprise	35, Batu 31/2 Jln Persiaran		93250	Kuching	Sarawak
Slabstock (SMI)	Dream Master Corp. Sdn Bhd	1900 Jln Tun Razak	Sg Priok	93450	Kuching	Sarawak
Slabstock (SMI)	Lian Seng Sponge Manufacturer	31B Jln Wong Ting Hook		96000	Sibu	Sarawak
Slabstock (SMI)	Sing Sing (Wong Kie) Sdn Bhd	Lot 24, Jln Tiong Hing Primary School		96000	Sibu	Sarawak
Slabstock (SMI)	Deck Hua Enterprise	171C Ground Floor	Kg Nyabor Road	96007	Sibu	Sarawak
Slabstock (SMI)	Lami Foam Industries	Lot 238, Jln Batu Belah	off Jln Meru	41050	Kelang	Selangor
Slabstock (SMI)	Hi-Dee (M) Sdn Bhd	30 Jln 34, Kaw 16 Ind Ringan Rasa	Off Jln Batu 3	41300	Kelang	Selangor
Slabstock (SMI)	United Shoe Material Ind Sdn Bhd	7 Jln Pengasah 1	Bt 31/4 Jln Kapar	41400	Kelang	Selangor
Slabstock (SMI)	A-One Leather Craft Sdn Bhd	23 Jln Lingkungan Raja Lumu	Pandamaran	42000	Port Kelang	Selangor
Slabstock (SMI)	Dreamed (M) Sdn Bhd - King Koil Bedding	Lot 1, Lorong 10 B	Teluk Panglima Garang	42500	Kelang	Selangor
Slabstock (SMI)	Wengo Industries Sdn Bhd	Batu 11 Jln Cheras		43000	Kajang	Selangor

Slabstock (SMI)	Camel Foam Industries Sdn Bhd	Lot 4 Lorong 16 Ind Cheras Jaya	Cheras	43200	Balakong	Selangor
Slabstock (SMI)	Agman Sdn Bhd	Lot 22, Kawasan Ind Seri Kembangan		43300	Seri Kembangan	Selangor
Slabstock (SMI)	M-System Foam (M) Sdn Bhd	Lot 908 A&B Kampong Baru	Sungai Buluh	47000	Sg Buluh	Selangor
Slabstock (SMI)	Perniagaan Kiar Wah Huak	ALAL 23D Jln Kg Baru	Sungai Buluh	47000	Sg Buluh	Selangor
Slabstock (SMI)	Perusahaan Yew Hup Seng	A123 Jln Kg Baru	Sungai Buluh	47000	Sg Buluh	Selangor
Slabstock (SMI)	Aerofoam Industry Sdn Bhd	Batu 8 Jln Batu Caves		68100	KL	Wilayah
Slabstock (SMI)	Syarikat Perindustrian Madah	78 Kg Gombak Utara	Gombak		KL	Wilayah

No	Company Name	Authorised Person/ Position	Address	TEL / FAX / EMAIL	Type of products
1	Accord Floral Tree Trading	Simon Chua	No.13, Jalan Ria 4, Taman Ria Simpang Rengam, 86200 Johor	Tel: 07-755 8136 / 6267 Fax:07- 755 8137 019-778 9036	Rigid artificial wood/tree
2	OmSri Bumi Engineering Sdn. Bhd	M.S.Maniyam	Lot 7265, Jalan RRI, Kg Baru Subang, 40100 Shah Alam, Selangor	Tel: 03-7846 1936 Fax:03-7727 7032 012-336 4157	Rigid foam for storage heater
3	Polychem Insulation	PhangMeng Kee	73, Jalan 10, Taman Perindustrian Ehsan Jaya, 52100 Kepong, Selangor No.3208-A, Jalan Fri, Batu 8, Kepong, 52100 Kepong, Selangor	Tel:03-6275 0243 Fax:03-6275 3559 019-332 7738	Rigid foam pre-insulated pipe
4	SEP Engineering	Chew Ching Chuan	S764 Lorong 18/62C, Taman Seri Serdang, Sri Kembangan, 43300 Selangor 4,Jalan Radin Anum 1, Bandar Baru Sri Petaling, 57500 Kuala Lumpur	Tel: 03-9057 1905 Fax:03-9057 4715	Rigid foam for storage heater
5	Tan Cheong Hong & Son	Tan Tan Siew	21, Off Jalan Changkat Jong, 36000 Teluk Intan, Perak	Tel:05-622 4796 019-505 1992	Rigid foam for boat building
6	Chan Boatyard Enterprise	Chan Tet Chew	Jalan Maharaja Lela, Behind Seng Hin Sawmill, 36000 Teluk Intan, Perak	Tel:05-621 5217 Tel:05-622 3627 019-556 6099	Rigid panel for boat building

7	Tan Chuan Hooi Boat Builder Sdn Bhd	Tan Chin Ho	Lot 937, Batu 2 1/2, Jalan Maharaja Lela, 36000 Teluk Intan, Perak	Tel:05-622 1712 019-510 9677	Rigid foam for boat building
8	Fitbra Haiman Sdn. Bhd	Parman B. Mohd Hairi	Plot 23, Jalan Satu, Kaw Perusahaan Tikam Batu, 08600 Kedah	Tel:04-438 8376	Rigid foam for container
9	Panacorp Sdn Bhd	Helen Chang	Lot 2181, Jalan Besar Semenyih Beranang, 43500 Semenyih, Selangor	Tel/Fax:03-8723 5223 012-233 3150	Rigid panel for trucks Refrigerated
10	Rotomas Technology (M) Sdn Bhd	Cindy Yap	1, Jalan P 6/2, Seksyen 6,Batu 18, Bandar Teknologi Kajang, 43500 Semenyih, Selangor	Tel:03-8724 1633 Fax:03-8723 3733 Email:cinyap@tm.net.my	Rigid foam for container
11	Pacific Engineering Sdn Bhd	Cheam Than Hai	Lot 30, Jalan 223, Section 51- A, 46100 Petaling Jaya, Selangor	Tel:03-7957 2588 Fax:03-7957 2926 Email:pecol@pc.jaring.my	Rigid foam for storage heater & container
12	Power Insulation Engineering Sdn Bhd	Richard Ng	34 & 36 Jalan Industri Beringin, Tmn Perindustrian Ringan Beringin, Juru, 14000 Bukit Mertajam	Tel:04-508 6035 / 34 / Tel:04-507 7244 Fax:04-507 7873 019-332 4861	Rigid foam pre- insulated pipe
13	Flomac Engineering Sdn Bhd	Sunny L.B Khaw	4 & 5 Jalan Pendamar, Cempaka Emas Industrial Estate Pandamaran, 42000 Port Klang, Selangor	Tel:03-3167 5617 / 20 / 51 Fax:03-3167 5619 Email:flomac@po.jaring.my	Rigid foam for storage heater
14	Boon Koon Vechicle Industries Sdn Bhd	Nick Chew	1177, Jalan Dato Keramat 14300 Nibong Tebal, SP, Pulau Pinang	Tel:04-593 1504 Fax:04-593 3512 012-482 7977 Email:bkvi@boonkoon.com	Rigid panel for refrigerator truck

No	Company Name	Authorised Person/ Position	Address	TEL / FAX / EMAIL
1	Ban Eng Hong Refrigeration & Electrical Works	Loke Kee Voon	No. 98-E Mergong Ind. Estate, Seberang, Jln Putra, 05150 Alor Setar, Kedah	Tel: 04-733 0124 Fax:04-731 0628
2	Hippo Industries Sdn. Bhd	Mr C.B Chew	Lot 549, Jln 2C, Kg. Baru Subang 40150 Shah Alam, Selangor	Tel: 03-7846 8653 Fax:03-7846 8653 H/P:016-220 1807
3	NCL Industries Sdn. Bhd	Mr. Ng Seng Poo	Office: No. 72, Mai Road, 09800 Serdang , Kedah Factory: Lot 300, spk 2933 Kg China 09800, Serdang, Kedah	Tel: 04-407 7224 Fax:04-407 7053 Tel: 04-407 9403
4	Ngui Soon Cold Room & Refrigeration Sdn. Bhd	Alex Wong Ah Lek	Lot 144, Lok Kawi Light Ind.Estate, 8888245 Kota Kinabalu,Sabah	Tel: 088-495 443 / 760 979 Fax:088-495 443
5	Rokisar Sdn Bhd	Rosli Hj Jamaluddin	Lot 8928, Lebu Kampung Nelayan, Telok Gong, Pelabuhan Klang, 42000 Selangor	Tel: 03-3103 0901 / 3103 0981 Fax:03-3103 1720 email: rokisar@po.jaring.my
6	Selesa Foam Marketing	Gary Loo Boon Tong	Lot 2856, Jln Welfare Kg. Baru Sungai Buloh 47000 Sg. Buluh, Selangor	Tel: 03-6157 3061 Fax:03-6157 3057 H/P:012-383 3593 email:selesa_f@tm.net.my
7	Supiera Enterprise Sdn Bhd	Ku Teng Sing	No.34, Jalan Bistari 4, Taman Industri Jaya, 81300 Skudai, Johor	Tel: 07-512 1878 Fax:07-512 6878

8	Top Amity Sdn Bhd	Fong Shyh Yeong	No.14, Jalan Nafiri, Kawasan Perindustrian Valdor, Sungai Bakap, 14200 Seberang Prai, Pulau Pinang	Tel: 04-582 0861 / 582 0862 Fax:04-582 0862
9	Malaysian Olefins Sdn Bhd	Vincent Hee	Lot 755, Jalan Subang 3, Sungai Penaga Industrial Park, 47610 Subang Jaya, Selangor	Tel: 03-5633 5999 Fax:03-5635 0995 / 5635 4718 H/P:012-334 1340 email:export@malaysianolefins.com
10	Natural Rubber Foam Industries Sdn Bhd	Mr Wong Wee Hong	Office: No.6, Jalan Kencana 20, Taman Kencana, Cheras, 56100 Kuala Lumpur Factory: Lot 8928, Lebuhr Kampung Nelayan, Telok Gong, Pelabuhan Klang, 42000 Selangor	Tel: 03-4291 7811 / 4291 7129 Fax:03-4291 8429 H/P:019-276 4549 email:nrfisb@tm.net.my
11	Premium Polyurethane Technology (M) Sdn Bhd	Wong Soon Kee	Office: No.23-C, Jalan Desa Jaya, Taman Desa, Old Klang Road, 58100 Kuala Lumpur Factory: No.65, Jalan TPP 1/1, Taman Industri Puchong, 47100 Puchong, Selangor	Tel: 03-7982 0322 Fax:03-7981 7611 H/P:019-227 2736 email:pptm@po.jaring.my
12	Berjaya Steel Product Sdn Bhd	W. C. Chong	PT 16736, Jalan Permata 1, Arab Malaysian Industrial Park, 71800 Nilai, Negeri Sembilan	Tel: 06-799 6363 Fax:06-799 4441 / 799 0676 email:ckem@tm.net.my
13	Hewgant Sdn Bhd	Alvin Chew	No.26 & 28 U5/17 (PS), Section U5, Mah Sing Integrated Industrial Park, 40150 Shah Alam, Selangor	Tel: 03-7845 4668 Fax:03-7845 4778
14	Safari Chairs System Sdn Bhd	Yong Eng Swee	Wisma Safari, Lot P.T.70 Jln Taiping, Kg. Baru Sg. Buloh, 47000 Sungai Buloh, Selangor	Tel: 03-6156 6277 Fax:03-6156 8266 / 6156 0277 email:export@safarichairs.com
15	Tilam Sutera (M) Sdn Bhd	Sheikh Ahmad Najjeb Sheikh Hassan	Office: No.57-3, Jalan Sulaiman 3, Taman Putra	Tel:03-4270 6630 / 4270 6619 Fax:03-4270 6680 Tel:06-764 7475

			Sulaiman, 68000 Ampang, Selangor Factory: Lot 29,31 &43, Jalan Lombong Emas, Seremban Light Industrial Park, Jalan Tun Dr. Ismail, Negeri Sembilan	
16	Cycleworld Truck Sdn Bhd	Wong Hon Pooi	Lot 23261, Jalan Sungai Puluh Off Jalan Kapar, 42100 Klang, Selangor	Tel: 03-3291 5890 Fax:03-3291 5891 H/P:012-289 0918
17	Wincool Refrigeration & Air - Cond Sdn Bhd	K.K Tan	No. 18, Jln Utarid U5/14, Seksyen U5, 40150 Shah Alam, Selangor	Tel: 03-7845 6223 Fax:03-7845 7223 H/P:012-336 0210 email:win2001@po.jaring.my
18	Relatech Industries Sdn Bhd	C.H. Tan	Office: 24, Jalan 6/91, Taman Shamelin Perkasa, Cheras 56100 Kuala Lumpur Factory: PT 2187, Jalan Ulu Yam Bharu, 44300 Batang Kali, Ulu Selangor, Selangor	Tel: 03-9281 1323 Fax:03-9282 4609 Tel: 03-6075 3086 Fax:03-6075 3086 H/P:012-399 4077 email:lktan@lanhoe.com.my
19	Solidfoam Insulation (M) Sdn Bhd	Hoh Thian Loy	EMR-4385, Lot 3723, Rumah Panjang KTM Balakong, 43300 Seri Kembangan, Selangor	Tel: 03-8961 0680 / 8961 0685 Fax:03-8961 0684 email:solidfm@pd.jaring.my
20	Linear Panel Marketing Sdn Bhd	Pooi Chee Hong	No.1285, Jalan 11, Kampung Baru Ampang, 68000 Ampang, Selangor	Tel: 03-4280 5918 Fax:03-4280 5919
21	Perfect Moulding & Trading	Chan Wan Fong	Office: G-0A-12, Jalan PJU 10/1B Apartment Lestari, Damansara Damai, 47830 Sungai Buloh Factory: No.1, Jalan KPK 2/3, Kawasan	Tel :03-6095 9618 Fax:03-6095 6517

			Perindustrian Kundang, Kundang Jaya, 48020 Rawang, Selangor	
22	JS Refrigerators Sdn Bhd	Henry Teoh Huck Loon	No.12, Jalan Mutiara Emas 7/8, Taman Mount Austin, 81100 Johor Bharu, Johor	Tel: 07-351 6639 Fax:07-351 6640 H/P:019-727 1230

No	Company Name	Authorised Person/ Position	Address	TEL / FAX / EMAIL
1	Century Refrigeration Enterprise	Hum Pin Choay	72, Jalan Industri Beringin, Juru, 14100 Simpang Ampat, Pulau Pinang	Tel: 04-508 6260 Fax:04-731 0628 H/P:019-4758736
2	Maskimi Polyol Sdn. Bhd	Low Yoke Lan / Kiran Kumar Ravoori	Lot 8515, Jalan Reko, 43000 Kajang, Selangor	Tel: 03-8733 2078 Fax:03-8733 2084 H/P:012-239 3300 / 012-679 7315
3	Ocean Parade Industries Sdn Bhd	Eric Y.K Kiew	167, Lorong Satu B, Kampung Baru Subang, 40150 Shah Alam Selangor	Tel: 03-7876 1048 /4023 /6717 /7485 Fax:03-7846 9214 H/P:012-236 3298
4	Colorex Sdn Bhd	Loke Yeak Thong / Khoo Hong Kee	Lot 8, Solok Sultan Hishamuddin 7, Kawasan Perindustrian Selat Kelang Utara, 42000 Pelabuhan Kelang, Selangor	Tel: 03-3176 5517 Fax:03-3176 5524

Refrigeration Project

Refrigeration	Sanden International (M) Sdn Bhd	PLO 212, Jln Pekeliling	P.O Box 24	81707	Pasir Gudang	Johor
Refrigeration	Gai Hin Refrigeration Sdn Bhd				Seremban	N. Sembilan
Refrigeration	Thermo Cooling Eng. Sdn Bhd	30 Persiaran Kota Permai 4	Tmn Kota Permai	14000	Bt Mertajam	P. Pinang
Refrigeration	Kwang Tai Refrigeration Sdn Bhd	No 193, Section 60	Jln Sekama	93300	Kuching	Sarawak
Refrigeration	UCM Sdn Bhd	Lot 18, Ind Subang Hi-Tech	Batu 3	40000	Shah Alam	Selangor
Refrigeration	OYL Appliances Sdn Bhd	Lot 10 Jln Perusahaan 8	Ind Banting	42700	Banting	Selangor
Refrigeration	APM Air Conditioners Sdn Bhd	Lot 3 Jln 6/3, Ind Sri Kembangan		43300	Seri Kembangan	Selangor
Refrigeration	Denso (Malaysia) Sdn Bhd	Lot 2 Jln P/1 Seksyen 13	B. B Bangi	43650	Bangi	Selangor

Refrigeration	Matsushita Electric Co. (Bangi Plant)	No 7 Jln P/2A Bandar Baru Bangi	Ind Bangi	43650	Bangi	Selangor
Refrigeration	Sharp Roxy Sdn Bhd	Lot 4 & 6 Jln 225	Seksyen 51 A	46100	Petaling Jaya	Selangor
Refrigeration	ASHRAE (M)	No 21 Jln TPJ 6, Taman Perindustrian Jaya	Kelana Jaya	47200	Petaling Jaya	Selangor
Refrigeration	Seasonair (M) Sdn Bhd	Lot 4 Jln Ipoh	Batu 18, Ind Rawang	48000	Rawang	Selangor
C. Refrigerant	FMC Refrigeration Holding Sdn Bhd	Lot 2883 Bt 4, Jln Maharaja Lela		36000	Teluk Intan	Perak
Com. Ref (Umbrella)	Exquisite Products Mfg (M) Sdn Bhd	No 3 Jln Mahsuri 1	Ind Batu 4	86007	Kluang	Johor
Com. Ref (Umbrella)	Lim Yew Refrigeration Co Sdn Bhd	252 Ind Mergong 2		05150	Alor Star	Kedah
Com. Ref (Umbrella)	Noblelane Industries Sdn Bhd	Lot 522 Kg Gunung Hilir	Gunung Keriang	06570	Alor Star	Kedah
D. Refrigeration	Sanyo Sdn Bhd	Ind Kemunting Peti Surat 78		34007	Taiping	Perak

LIST OF AUTHORIZED TRAINING CENTRES (ATC)

No	Company Name	Authorised Person/ Position	Address	TEL / FAX / EMAIL
1	HRH Resources (M) Sdn. Bhd	ZULKHAIRI BIN SAHARUDDIN ABDUL HAMID BIN MOHAMED ZIN	No.4A, Jalan Kota Raja M 27/M, Hicom Town Centre, Seksyen 27, 40400 Shah Alam	Tel: 03-5510 7722 Faks: 03-5510 2772 H/P: 019-383 9835 / 019-270 2006 Email: hrh_resources@yahoo.com
2	Bersama Teknik Trading	HASHIM BIN ALI KAMARUDDIN MD ZAINUDDIN BIN SHAFIE	4289 D Sek 27, Jln Peng.Chepa 15400 Kota Bahru, Kelantan	Tel:09-743 2898 / 09-743 6878 Faks:09-743 7870 Email:bertek@hotmail.com
3	CEM Engineering Sdn. Bhd	HO SIEW WEI CHONG FOK HENG	Room 2-8, Jalan Sultan, 50000 Kuala Lumpur	Tel: 03-2072 4592 Faks:03-7785 4971 Email:ongws@p.jaring.my
4	Kuching Air Conditioning Refrigeration	MOHAMAD IZAN BIN BUJANG CHEW POI GUAN	Ground Floor, Lot 447, Blk 206, KNLD Sungai Maoung Hilir Commercial Centre, 93500 Kuching, Sarawak	Tel:082-232113 Faks:082-232113 / 082-252 892 H/P:012-8801133 / 012-8731133
5	Perniagaan Elektronik Sing Seng Hing	HEA KUE BOON ISMAIL BIN AHMAD	No.14, Lorong 1, Taman Ria, 08000 Sungai Petani, Kedah	Tel:04-442 9233 Faks:04-442 9233 H/P:016-416 6622

Aerosols Project

Aerosol (SMI)	Beauty Line Sdn Bhd	No 10 Jln Bertam 6	Taman Daya	81100	Johor Bahru	Johor
Aerosol (SMI)	Chempack Ind Sdn Bhd (Way Mfg Co.)	PLO 31, 11 Jln Firma 2/1	Ind Tebrau		Johor Bahru	Johor
Aerosol (SMI)	Trend Beauty	17 Jln Molek 2/3	Tmn Molek		Johor Bahru	Johor
Aerosol (SMI)	DPI	No21 Ind Tanjung Agas		84007	Muar	Johor
Aerosol (SMI)	Aerosol Specialist Sdn Bhd	164-C Lebuah Campbell		10100	Penang	P. Pinang
Aerosol (SMI)	Fumakilla Malaysia Bhd	No 256 Tkt Perusahaan 5	Ind Prai	13600	Prai	P. Pinang
Aerosol (SMI)	Bacory Corporation	No 48/50 Tkt Binjai 12	Sri Rambai	14000	Bt Mertajam	P. Pinang
Aerosol (SMI)	Maya Chemical Industries Sdn Bhd					P. Pinang
Aerosol (SMI)	Tenco Industries Sdn Bhd	No 5 Jln Pelabur 23/1		40000	Shah Alam	Selangor
Aerosol (SMI)	Kontrak Manufacturing Sdn Bhd	Lot 6 Persiaran Perusahaan, Seksyen 23	Ind Shah Alam	40300	Shah Alam	Selangor
Aerosol (SMI)	Actacorp Mfg SVS Sdn Bhd	Lot 5, Jln Saham 23/3	Seksyen 23	40300	Shah Alam	Selangor
Aerosol (SMI)	Power Cosmetic Sdn Bhd	No 32 Jln SC 5/B	Ind Sg Chua	43000	Seri Kembangan	Selangor
Aerosol (SMI)	Rivest Corp Sdn Bhd	8 Lorong Sg Rasau 24B		43100	Kelang	Selangor
Aerosol (SMI)	Jason Trading	7 Jln 7/1 Tmn Ind Selesa Jaya		43300	Balakong	Selangor
Aerosol (SMI)	Standard-Pack System Sdn Bhd	31 Jln 6/2, Tmn Ind Selesa Jaya		43300	Balakong	Selangor
Aerosol (SMI)	Origin Ventures Sdn Bhd	14 Jln TTP 5/12 Tmn Ind Puchong	Seksyen 5	47100	Puchong	Selangor
Aerosol (SMI)	Alloychem Malaysia Sdn Bhd	18-B3 Jln SS 6/3 Kelana Jaya		47301	Petaling Jaya	Selangor
Aerosol (SMI)	Hong Bee Sdn Bhd	No 59 Jln 17 Desa Kepong		52100	KL	Wilayah
Aerosol (SMI)	Rann Manufacturing Company	No 98 Jln 11/34B Sri Edaran	Ind Kepong	52100	KL	Wilayah
Aerosol (SMI)	Argon Malaysia Sdn Bhd	35 Jln Midah Timur	Tmn Midah Cheras	56000	KL	Wilayah
Aerosol (SMI)	U-Lyen Sdn Bhd	No 20 Jln 6/11B	Desa Tun Razak	56000	KL	Wilayah
Aerosol (SMI)	Shawlome (Aerosol Tech Sdn Bhd)	No 4 Jln TPK 1/2	Tmn Ind Kinrara	58200	KL	Wilayah

Halon Project

Halon	Eversafe Extinguisher/Marketing Sdn Bhd	Lot 878 Jln Subang 9	Tmn Ind Subang	47500	Petaling Jaya	Selangor
Halon	Fire Service Department	Pusat Latihan Bomba	Kuala Kubu		Kuala Kubu	Selangor

Department of Fire and Rescue Malaysia
Head Halon Unit
Malaysia Halon Bank
JKR 1301, Jalan Padang Tembak
44000 Kuala Kubu Bharu
(Attn : En. Ahmad Faisal bin Ahyat)
Tel : 03-6064 1466

Fax : 03-6064 1466

Projects working with schools or universities

None

Important national stakeholders and or champions who have helped in implementation and might speak to press

Director
Industrial Services Division
Level 3, Ministry Of International Trade And Industry (MITI)
Block 10, Kompleks Kerajaan Jalan Duta
50622 Kuala Lumpur
Malaysia
Tel. No.: 603-62013405, 603-62034760
Fax : 603-62010437

Secretary General
Headquarters Royal Customs Malaysia
Customs Division (Import / Export Branch)
Level 4 North, Block 2G 1B
Ministry Of Finance Complex
Precint 2, Federal Government Administrative Centre
62592 Putrajaya
Tel. No.: 603-88822664
Fax : 603-88895881

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank ✓
- UNIDO ✓
- UNEP
- UNDP ✓

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings

Director General
Department Of Environment,
Ministry Of Natural Resources & Environment,
Level 1 – 4 Podium Block 2 & 3,
Lot 4G3, Precint 4, Federal Government Administrative Centre
62574 Putrajaya, Malaysia

- Any national or international award winners

1995 UNEP Global Ozone Award – 10th Anniversary of the Vienna Convention for the Protection of the Ozone Layer, 4 December 1995

1996 USEPA Stratospheric Ozone Award – US Environmental Protection Agency, Washington, 25 October 1996

1997 UNEP Ozone Award – 10th Anniversary of the UN Montreal Protocol on Substances That Deplete the Ozone Layer, 16 September 1997, Montreal

1997 USEPA's Best-of-the-Best Stratospheric Protection Award – 14 September 1997, Montreal

1997 Outstanding National Ozone Unit Award, 10th Anniversary celebration, 15 September 1997, Montreal

- National members of Panels or Executive or Implementation Committees

Ministry of Natural Resources & Environment

Ministry of Finance

Ministry of Foreign Affairs

Ministry of International Trade and Industry

Ministry of Domestic Trade and Consumer

Ministry of Agriculture

Economic Plan Unit, Prime Minister Department

Headquarters Royal Customs Malaysia

Malaysia Industrial Development Association

Department of Agriculture

Department of Fire and Rescue Malaysia

Malaysia Halon Bank

Department of Statistic

National Pharmaceutical Control Bureau

Department of Meteorology

Department of Chemical

Department of Road Transport

Maklumat “Article 5 Country Story”

[Malaysia] Penglibatan dalam Melaksanakan Protokol Montreal

Mengiktiraf Protocol Montreal pada : 29 Ogos 1989

Badan kerajaan yang bertanggungjawab dalam melaksanakan Protokol Montreal :

Jabatan Alam Sekitar, Kementerian Sumber Asli Dan Alam Sekitar

Sumber Utama bagi menjawab persoalan orang ramai :

Name : Ketua Pengarah Alam Sekitar

Alamat : Jabatan Alam Sekitar, Kementerian Sumber Asli Dan Alam
Sekitar, Jabatan Alam Sekitar, Aras 1-4, {odiom Blok 2&3,
Lot 4G3, Presint 4, Pusat Pentadbiran Kerajaan Persekutuan
62574 Putrajaya, Malaysia

No.Telefon : 603-88712000

Faks : 603-88889987

Jumlah dan jenis bahan pemusnah ozon yang digunapakai oleh Malaysia sehingga kini

Jenis	Kegunaan	Jumlah digunakan pada 2005
CFCs (1986)	Refrigeran (Servis)	661.767
Halon	Pemadam api	Tiada
Karbon tetraklorida	Solven	Tiada
Metil Klorofom	Solven	61.77
Metil Bromida	Fumigasi	18.060 (Non-QPS) 252.290 (QPS)

Bilangan projek/Aktiviti yang dibiayai di dalam Negara:

7 projek

Jumlah dana yang diluluskan untuk Negara:

USD 36,500,000 (Fasa I), USD 11,517,005 (Fasa II)

NOTE: Proeks are covered in the English version above

Projek dengan sekolah atau universiti

-Tiada-

Pihak yang memainkan peranan penting dan banyak terlibat dalam pelaksanaan Protokol Montreal serta boleh menjawab persoalan pemberita

Pengarah
Bahagian Servis Industri
Aras 3, Kementerian Perdagangan dan Industri

Blok 10, Kompleks Kerajaan Jalan Duta
50622 Kuala Lumpur
Malaysia
Tel.: 603-62013405, 603-62034760
Fax : 603-62010437

Ketua Setiausaha
Ibu Pejabat Jabatan Kastam Diraja Malaysia
Bahagian Kastam (Cawangan Import / Eksport)
Aras 4 Utara, Blok 2G 1B
Kompleks Kementerian Kewangan Malaysia
Presint 2, Pusat Pentadbiran Kerajaan Persekutuan
62592 Putrajaya
Tel.: 603-88822664
Fax : 603-88895881

Sila tandakan badan –badan yang terlibat menjadi agensi pelaksana

- World Bank ✓
- UNIDO ✓
- UNEP
- UNDP ✓

Nama agensi lain yang boleh dihubungi untuk maklumat:

- Wakil ke Mesyuarat Protokol

Ketua Pengarah
Jabatan Alam Sekitar,
Kementerian Sumber Asli Dan Alam Sekitar,
Aras 1 – 4 Podium Blok 2 & 3,
Lot 4G3, Presint 4, Pusat Pentadbiran Kerajaan Persekutuan
62574 Putrajaya, Malaysia

- Sebarang pencapaian dan anugerah yang pernah diterima

1995 UNEP Global Ozone Award – 10th Anniversary of the Vienna Convention for the Protection of the Ozone Layer, 4 December 1995

1996 USEPA Stratospheric Ozone Award – US Environmental Protection Agency, Washington, 25 October 1996

1997 UNEP Ozone Award – 10th Anniversary of the UN Montreal Protocol on Substances That Deplete the Ozone Layer, 16 September 1997, Montreal

1997 USEPA's Best-of-the-Best Stratospheric Protection Award – 14 September 1997, Montreal

1997 Outstanding National Ozone Unit Award, 10th Anniversary celebration, 15 September 1997, Montreal

- Jawatankuasa pelaksanaan atau panel eksekutif kebangsaan

Kementerian Sumber Asli dan Alam Sekitar

Kementerian Kewangan
Kementerian Luar Negeri
Kementerian Perdagangan dan Industri
Kementerian Perdagangan Dalam Negeri dan Hal Ehwal Pengguna
Kementerian Pertanian
Unit Perancang Ekonomi, Jabatan Perdana Menteri
Ibu Pejabat Jabatan Kastam Diraja Malaysia
Persatuan Pembangunan Industri Malaysia
Jabatan Pertanian
Jabatan Bomba dan Penyelamat Malaysia
Bank Haluan Malaysia
Jabatan Perangkaan
Biro Pengawalan Farmaseutikal Kebangsaan
Jabatan Meteorologi
Jabatan Kimia
Jabatan Pengangkutan Jalan

MONGOLIA's Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 7 March 1996

**National Entity(s) Primarily responsible for Implementation of the Protocol:
NATIONAL OZONE AUTHORITY, MONGOLIA**

The primary contact(s) for Press inquiries

Name	Prof.Adiyasuren Ts.
Entity	Director, NOA, Mongolia
Address	Room 901, Government Building IX Sambuu Street 11 P.O.38, Ulaanbaatar 211238, Mongolia
Phone Number	976 11 312458; 976 99192160

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout:

	Peak Use	2005 Use
CFCs (1999)	21.2 MT	3.75 MT
Halons		
Carbon Tetrachloride	-	-
Methyl Chloroform	-	-
Methyl Bromide	-	-

Number of Projects/Activities funded in the country:

11 projects funded by MLF in the country

Amount of money approved for the country:

\$ 720,644

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

Name of Firm and contact with phone number
Brief Description of project and accomplishment
N/A

Refrigeration Project

Name of firm and contact with phone number
Brief description of project and accomplishment

• ***Training of Technicians*** :

One of the main program, which implementing by NOU Mongolia is the train-the-technicians program on good practices in refrigeration is part of a comprehensive approach to reduce the consumption of *Ozone Depleting Substances* (ODS) in the refrigeration servicing sector in Mongolia. The main objective of the “train-the-technicians” program is to raise awareness of

participants of the need to reduce chlorofluorocarbon (CFC) consumption in the refrigeration and air-conditioning servicing sector. The expected long-term result of the training program is to promote good implementation, service, maintenance and business practices in the refrigeration sector which assists the sector in the switch-over to non-CFC equipment in a coordinated, planned and cost-effective manner without causing an unnecessary burden to end-consumers. Last year the National Ozone Unit, Ministry of Nature & Environment was successfully organized “train-the-technicians” workshops 2006 within the framework of the above mentioned program. In total, 49 refrigeration technicians and engineers participated in the “Train-the-technicians” workshop. The participants were selected from local refrigeration servicing companies and were trained in good practices in refrigeration and air conditioning.

- ***Training of Trainers (ToT)***

Successfully conducted the train-the-trainer workshop in close cooperation with Japan/ UNEP and MRA /Mongolian Refrigeration Association / MNE, and trained 15 national trainers. Through those trained trainers will be train around 100 technicians during the year 2007.

- **Support of the “Association”**

Established Mongolian Refrigerant Association and was officially registered in February 2006 with assistance of NOU. MRA assisted the PMU in the organization of the technicians training, and expected to continue the training after TPMP with the introduction of the certificate for strengthening the Mongolian Refrigeration Association /MRA/, provide technical support for developing regular training programmes for technicians system. MRA currently has 10 companies and some individual members. NOU, Mongolia is assisting MRA to implement the certification system in a long-term view, and to become the vocational training Center who manages the refrigeration servicing workshops in the future.

Aerosols Project

Name of firm and contact with phone number

Brief description of project and accomplishment

N/A

Halon Project

Name of firm and contact with phone number

Brief description of project and accomplishment

N/A

Projects working with schools or universities

Name of institution and contact with phone number

Brief description of project and accomplishment

Important national stakeholders and or champions who have helped in implementation and might speak to press

Name, affiliation, and contact phone number

Mr. Baasan D.

Director

Customs Enforcement Division

General Customs Administration, Mongolia

Tel: 976-11 350050 976-99118147
Fax: 976-11-350048
E-mail: baasan@ecustoms.mn

Name, affiliation and contact phone number

Enkh-Amgalan Sh.
Executive Director of Mongolian Refrigeration Association
Tel: 976 99190577
E-mail: enkhamgalans@yahoo.com

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank
- UNIDO
- **UNEP**
- UNDP

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings

Prof. Adiyasuren Ts.

Director of NOA, Mongolia

Vice Chairman of National Committee for the Implementation of the Vienna Convention on the Protection of the Ozone layer

- Any national or international award winners
N/A
- National members of Panels or Executive or Implementation Committees
N/A

South Africa and the Montreal Protocol

SOUTH AFRICA's Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 15 January 1990

National Entity(s) Primarily responsible for Implementation of the Protocol::

Department of Foreign Affairs;
Department of Environmental Affairs and Tourism and
Cabinet (Parliament)

The primary contact(s) for Press inquiries

Name: Mr Jay JP Singh
Entity: Communications Director
Address: Dept of Environmental Affairs and Tourism, Private Bag X447,
PRETORIA, 0001, South Africa
Phone Number: +27 12 310 3311

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phase-out:

	Peak Use	2005 Use
CFCs (1986)	12 500 m tonnes	62 tonnes*
Halons	695	0
Carbon Tetrachloride	80	0
Methyl Chloroform	45	0
Methyl Bromide	1 007	750

*: The 62 tonnes is for the manufacture of MDIs only and expected to be down at zero in 2009.

Number of Projects/Activities funded in the country:

The Alternatives to Methyl Bromide Project will be funded by GEF and implemented by the World Bank. The first phase of the project is expected to commence in April 2007. Unfortunately, this is the only project that will enjoy some international funding, if ever it takes off the ground. 100% of the phase-out that has taken place in the country was based on a voluntary agreement especially with industry without any punitive measures being imposed.

Amount of money approved for the country:

US \$350 000.00 for the first phase.

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project: (N/A)

Name of Firm and contact with phone number
Brief Description of project and accomplishment

Refrigeration Project (N/A)

Name of firm and contact with phone number
Brief description of project and accomplishment

Aerosols Project (N/A)

Name of firm and contact with phone number
Brief description of project and accomplishment

Halon Project (N/A)

Name of firm and contact with phone number
Brief description of project and accomplishment

Projects working with schools or universities (N/A)

Name of institution and contact with phone number
Brief description of project and accomplishment

Important national stakeholders and or champions who have helped in implementation and might speak to press

Mr Dave Marx
Chairman: Methyl Bromide Working Group
Tel: +27 82 932 4477

Mr Kevin McKenna
Chairman: Aerosol and MDI Working Group
Tel: +27 11 348 2438

Mr ED Rademeyer
CEO: Air Conditioning and Refrigeration Industry Council of South Africa
Tel: +27 11 455 1451 or +27 82 771 4903

Prof. TJ Sheer
School of Mechanical Engineering – WITS University
Chairman: Mining and refrigeration Working Group
Tel: +27 11 716 2710 / 2558

Dr Christos M Eleftheriades
CEO: Halogenated Carbons Destruction Facility
Tel: +27 11 316 2184/5/6

Dr Dagmar Whitaker
Dermatologist: Skin Cancer and UV radiation Impacts
Tel: +27 21 762 4779 or +27 82 777 8333

Mr Ron Buissinne
Chairman: South African Fluorocarbon Association
Tel: +27 21 551 8790 or +27 82 907 0902

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank✓
- UNIDO
- UNEP
- UNDP

Name and Coordinates of Other Key Contacts Including:

- **Delegates to Protocol Meetings:**

- Mr Alf Wills, Dept of Environmental Affairs and Tourism, International Liaison Unit;
- Ms Rejoice Mabudafhasi, Deputy Minister of the Environment and
- Mr Peter Lukey, Chief Director: Air Quality Management and Climate Change

- **Any national or international award winners:**

- Dr Pieter Aucamp (South Africa) (2005): The Vienna Convention Award For Outstanding Contributions to the Protection of the Ozone Layer. Currently he is a member of the Environmental and Health Effect Panel of UNEP and was originally a Co-Chair of the Scientific Assessment Panel until 2001.

- **National members of Panels or Executive or Implementation Committees:**

- Dr Stappies Staphorst (South Africa), member of the Methyl Bromide Technical Options Committee (MBTOC) and works for the Agricultural Research Council (SA) as a senior scientist in the Microbiology and Plant Pathology Section.

Sri Lanka's Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 15th December 1989

National Entity primarily responsible for Implementation of the Protocol:

Ministry of Environment & Natural Resources, No: 82, Rajamalwatta Road, Sampathpaya, Battaramulla, Sri Lanka.

The primary contact for press inquiries:

Dr. W L Sumathipala,
Director, National Ozone Unit,
Ministry of Environment & Natural Resources,
Parisara Piyasa, 104, Robert Gunawardhana Mawatha, Battaramulla, Sri Lanka.
Phone Number: 94 11 2871764,
Fax / Tel. No: 94 11 2887455, 94 11 2871385.

Amount and kind of ozone depleting substances consumed/used by the country at its peak and latest amount of consumption reported for the chemicals facing the earliest phase-out:

	Peak Use	2005 Use
CFCs	520.88 mt (1995)	149.19 mt
Halons	30 mt (1986)	Zero
Carbon Tetrachloride	42.10 mt (1998)	3.29 mt
Methyl Chloroform	78.43 mt (1997)	Zero
Methyl Bromide	10.83 mt (1999)	1.78 mt

Number of Projects/Activities funded in the country:

- Country programme preparation
- Institutional Strengthening Project for phase-out of ODSs Phase I,II,III,IV, V & VI
- Elimination of CFC-11 and CFC-12 in refrigerator / Deepfreezer manufacturing sector
- Elimination of CFC-12 in Aerosol manufacturing sector
- Implementation of a national programme for recovery and recycling of CFC-12 refrigerant
- Alternatives to methyl bromide for eradication of tea nematodes in Sri Lanka
- Incentive programme for commercial and industrial refrigeration in end-users (RMP)
- Train the Trainers and training of refrigeration service technicians on Good Practices in Refrigeration (RMP)
- Custom Officers training programme (under RMP)
- Monitoring the activities included in the RMP
- Halon Bank Management Programme (under NCAP)
- Incentive programme for commercial and industrial refrigeration end-users (under NCAP)
- MAC/Recovery/Recycling and retrofit (under NCAP)
- Recovery and Recycling programme (under NCAP)
- Monitoring the activities of NCAP programmes
- Enhancement of national capacity to monitor trade and prevent illegal trade of ODS (under NCAP)
- Extension training of the established refrigeration technicians under NCAP

- Phase-out of methyl bromide in remaining uses excluding QPS applications
- Assistance to carry out an HCFC survey

Amount of money approved for the country: US\$ 3,964,486.00

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foam Projects:

Mr V G K Vidyaratna, (Tp. 94 II 2638353) Regnis (Lanka) Ltd, Ratmalana, Sri Lanka. Annual manufacturing capacity of this plant was 8,300 units of Refrigerators and Deep Freezers and the Blowing agent of the plant was CFC-11. Under this project it was replaced by Cyclopentane and HFC 141b foam blowing technology.

Mr V G K Vidyaratna, (94 II 2638353) Glacio Ltd, Highlevel Road, Maharagama. Sri Lanka.

M/s Associated Electrical Corporation Ltd, Kalutara, Sri Lanka

Annual manufacturing capacity of above two plants were 18,897 units of Refrigerators and Deepfreezes and the blowing agent of the plant was CFC-11. Under this project blowing agent it was replaced by Cyclopentane and HCHC-141b foam blowing technology.

Refrigeration Projects:

Mr V G K Vidyaratna, (94 II 2638353) Regnis (Lanka) Ltd, Ratmalana, Sri Lanka. Annual manufacturing capacity of this plant was 8,300 units of refrigerators and Deep Freezers with CFC-12 refrigerant. Under this project it was replaced by HFC- 134a technology.

Mr V G K Vidyaratna, (94 II 2638353), Glacio Ltd, Highlevel Road, Maharagama. Sri Lanka.

Associated Electrical Corporation Ltd, Kalutara, Sri Lanka

Annual manufacturing capacity of above two plants were 18,897 units of Refrigerators and Deepfreezes with CFC-12 refrigerant. Under this project it was replaced by HFC-134a technology.

Aerosols Project:

Mr. Keerethi Wijenayaka, (94 II 2236033), International Cosmetic Ltd, Ekala, Jaela- Sri Lanka. The propellant used for the product was CFC-12. Hydrocarbon is the introduced alternative. Plant was retrofitted to work with Hydrocarbon and updated the fire protection system.

Halon Project:

Dr. W L Sumathipala (94 II 2871764, 94 II 2887455, 94II 2875381), Director, National Ozone Unit,

Mr. Mahendra Seneviratna (94 II 2887455, 94II 2875381) Consultant, National Ozone Unit

Work plan developed for the Halon Bank Management Plan (HBMP). Awareness creation programmes organized on national level through electronic and print media. Awareness created among fire fighting system users about the Halon banking (management) system.

MeBr Projects:

Mrs. Sushila Vitharana (Nematologist, Tea Research Institute-94 51 2222601),
Dr. Keerthi Mohotti (Nematologist, Tea Research Institute-94 51 2222601, 94 51 2223803/4/5),

Developed alternatives for MeBr uses in tea sector. Demonstration plots prepared. Awareness creation materials developed for extension works. Extension work plan developed for remaining funds.

Dr. Rohini Ekanayake (Director, National Plant Quarantine Service-94 777 74522, 94 11 2252028/9)

Developed alternatives for MeBr uses other than Tea sector uses and QPS applications. Training materials developed and training professional in fumigation sector about MeBr alternatives.

Projects working with schools, technical institutes or universities

National Ozone Unit carried out various awareness creation programmes and technicians training programmes in collaboration with Universities, Vocational Training Institutes, Technical colleges, Automobile Training Institutes, Department of Education and Schools.

Mechanical Engineering Department of University of Moratuwa, the leading Engineering and Technical University of Sri Lanka provided following assistances in following activities.

- Evaluation of applications for providing incentives for commercial and industrial end user refrigeration project
- Drafting “codes of good practices in refrigeration” which gives guidelines for conducting environment friendly refrigeration services
- Drafting “Sri Lanka Standards on Refrigerants”

Department of Mechanical Engineering, Ruhuna University provide facilities in conducting training programmes on Good Practices in Refrigeration for the Southern province.

Department of Mechanical Engineering, Open University of Sri Lanka conduct Ozone Friendly refrigeration technologies to Engineering and Diploma level courses in the relevant field. This also functions as a CFC Recovery & recycling centre.

Ceylon German Technical Training Institute supported the NOU is establishing the first CFC-12 Recovery and Recycling centre in the country. They also provide their assistance in training technicians in good refrigeration practices. They are also carrying out CFC recovery and retrofitting refrigerators working with CFC-12 to ozone friendly technology which were seized by the Sri Lanka Customs.

NOU is organizing awareness creation activities such as lecturers, seminars, quiz competitions, oratory competitions, drama competitions etc. with the assistance of the Department of Education, schools and Teachers Training Colleges.

Projects working with other institutions

Industrialists were educated with the assistance of the Board of Investment.

Awareness creation programmes and poster competitions were conducted with the collaboration of the Sri Lanka Association for the Advancement of Sciences (SLAAS) the leading professional body of scientists in the country.

Sri Lanka Customs providing an immense support to NOU in implementation of Customs Officers Training programme.

Important national stakeholders and or champions who have helped in implementation and might speak to press,

Dr. W L Sumathipala, (94 11 2871764) Director, National Ozone Unit, Ministry of Environment and Natural Resources,

Mr. Thosapala Hewage, (94 11 2394764) Secretary, Ministry of Enterprise Development

Hon. Dinesh Gunawardene, Minister of Urban Development.

Hon. Rukmen Senanayake, M.P.

Hon. A H M Fowzie, Minister of Mineral Resources Development.

Mr. S.P.K. Amarasinghe, (94 77 9103003) Head AC & Ref Training Division, Ceylon German Technical Training Institute.

Mr. Tharaka Seneviratne, (94 77 7439751) Sri Lanka Customs

Dr. Rohini Ekanayake (94 77 774522, 94 11 2252028/9) (Director, National Plant Quarantine Service)

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

	World Bank
	UNIDO
✓	UNEP
✓	UNDP

Name and Coordinates of Other Key Contacts Including:

Dr. Mrs. G I P Perera, Head, Department of Mechanical Engineering, University of Ruhuna (94 91 2245767)

Prof. R Athalage, Head, Department of Mechanical Engineering, University of Moratuwa (94 11 2874371)

Director General, Department of Technical Education (94 11 2348897)

Controller- Import/Export, Department of Import/Export Control (94 11 2324386)

Director General of Custom, Department of Customs (94 11 2347881)

Mrs Dhammika Ranasinghe, Deputy Director, Department of External Resources (94 11 2484702)

Any national or international award winners

International Awards

Second Place - Regional Video Competition 2001

First Place - Regional Poster competition 2002

Merit Award - Regional Poster competition 2002

National Awards

National Quiz Competition (2003, 2004, 2005, 2006)

National Poster Competitions (1998, 2002, 2003, 2004, 2005 and 2006)

National Oratory Competition (2003 & 2006)

National Drama Competition (2005)

National members of Panels or Executive or Implementation Committees

Hon. Dinesh Gunawardene, Minister of Environment

Vice President of the Bureau of the 13th Meeting of Parties 2001

Hon. Dinesh Gunawardene, Minister of Environment and Dr. W L Sumathipala invited as members of the Implementation Committee of the Montreal Protocol, 2001

Hon. Rukmen Senanayake Minister of Environment

President of the Bureau of the 14th Meeting of Parties

Hon. Rukmen Senanayake Minister of Environment and Dr. W L Sumathipala invited as members of the Implementation Committee of the Montreal Protocol, 2002

Hon. A H M Fowzie, Minister of Environment & Natural Resources Vice President of the 16th Meeting of Parties and member of the Implementing Committee 2005

Dr. W L Sumathipala -Co-opted member, Executive Committee of the Multilateral Fund of the Montreal Protocol, 2005

Dr. W L Sumathipala -Co-opted member, Executive Committee of the Multilateral Fund of the Montreal Protocol, 2006

Coordinating Committee on Implementation of Montreal Protocol in Sri Lanka

Secretary, Ministry of Environment & Natural Resources is the Chairman of the Coordination Committee. Following institutions represents the committee.

- Ministry of Environment & Natural Resources
- National Ozone Unit
- Ministry of Defence
- Ministry of Enterprise Development
- ODS importers and consumers
- Registrar of Pesticides
- Chamber of Commerce
- Board of Investment
- Registrar of Motor Vehicles
- Sri Lanka Standards Institute
- Sri Lanka Customs
- Department of Import & Export Control
- Ministry of Commerce & Consumer Affairs
- Central Environmental Authority
- Fire Services Department
- National Plant Quarantine Service, Department of Agriculture
- UNDP, Colombo Office

Additional Information

- Sri Lanka hosted the 13th Meeting of Parties of the Montreal Protocol in 2001
- Sri Lanka hosted the South Asia ODS Officers net work meeting in 2000
- Sri Lanka hosted the South Asia ODS Officers net work meeting in 2006

NOU initiated the Environmental Friendly Refrigeration Association of Sri Lanka. This acts as a professional body comprising all stakeholders ended in refrigeration sector and conduct activities on introducing and promoting environmental friendly refrigeration

Thailand's Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on: 7 July 1989

National Entity(s) Primarily responsible for Implementation of the Protocol:
Department of Industrial Works, the Ministry of Industry

The primary contact(s) for Press inquiries

Name: Mr.Soodsakorn Putho
Entity: Director of Treaties and International Strategies Bureau, Department of Industrial Works, the Ministry of Industry
Address: 75/6 Rama VI Road, Ratchathewi, Bangkok 10400
Phone Number: 662 202 4228, Fax Number 662 202 4015

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout: (ODP Tonnes)

	Peak Use	2005 Use
CFCs (1986)	9057.2	1259.9
Halons	502	10.9
Carbon Tetrachloride	68.2	0
Methyl Chloroform	793.4	0
Methyl Bromide	470.5	146.0

Number of Projects/Activities funded in the country:
103 Project(including group project and individual project)

Amount of money approved for the country:
Multilateral Fund has provided a total funding of 55,242,390 USD(52,767,390 USD of Grant Funds and 2,475,000 USD of concessional loan. There has also 2,500,000 USD of concessional loan provided from the Global Environment Facility or GEF)

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

Name of Firm and contact with phone number: Miccell Co.,Ltd. ; Contact person: Mr. Muang-rerng Prayong ; phone number: 662 380 6960-1
Brief Description of project and accomplishment : Conversion the production process that use CFC-113 as the blowing agent to be used LPG as the substitution with well accomplishment

Refrigeration Project

Name of firm and contact with phone number : Kulthorn Kirby Public Co.,Ltd. ; Contact person : Mr. Wissawa Chomjumpee ; phone number : 662 282 2151
Brief description of project and accomplishment : Conversion the compressor production process that produce the CFC-12 compressor to the HFC-134a compressor with well accomplishment.

Aerosols Project

Name of firm and contact with phone number : P-Tech Manuchem Co.,Ltd ; Contact person : Mr. Phairoj Suntikijumchorn ; phone number: 662 291 1453

Brief description of project and accomplishment : Conversion the production process that use CFC-11 and CFC-12 as the aerosol propellant to the process that use Hydrocarbon as the propellant with well accomplishment.

Halon Project

Name of firm and contact with phone number : Antifire Co.,Ltd. ; Contact person: Mr. Sittichai Limsuwan ; phone number : 662 259 6898

Brief description of project and accomplishment : Conversion the production process that produce Halon-1211 or Halon-1301 portable fire extinguisher to the process that produce Dry chemical or HFC-227ea(FM-200) portable fire extinguisher with well accomplishment.

Projects working with schools or universities

Name of institution and contact with phone number : Rajini School ; Contact person : Lecturer Boonrod Sawadipanich ; phone number : 662 241 1758

Brief description of project and accomplishment : Ozone Roadshow in high school. The activities included the ozone related displays as well as games and ozone souvenirs distribution.

Important national stakeholders and or champions who have helped in implementation and might speak to press

Name, affiliation and contact phone number

The Customs Department, Ministry of Finance

Give close cooperation in licensing system in order to preventing ODSs illegal trade, by implementing the role of ODSs inspector at customs checkpoint, monitoring transboundary illegal trade and the import data recorder.

662 667 7775 (Ms. Premwadee Timubol)

Name, affiliation, and contact phone number

Department of Land Transport, Ministry of Transport

Provide the assistance to accomplish CFC-12 phaseout in MAC sector, such as, issue the law to prevent retrofitting HFC-134a MAC system to CFC-12 system and cooperation in increasing car driver knowledge in using MAC refrigerant in proper way.

662 272 5751 (Mr.Manop Klaibandit)

Name, affiliation and contact phone number

Department of Skill Development, Ministry of Labour

Provide the assistance in MAC and refrigeration technician training programme, in the role of the technician trainer in training programmes those were held in all over country.

662 245 4406 (Ms.Sriwan Prasertthong)

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

√	World Bank
√	UNIDO
√	UNEP
√	UNDP

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings : Mr.Soodsakorn Putho
- Any national or international award winners
- National members of Panels or Executive or Implementation Committees

[Name of Country] Participation in Implementing the Montreal Protocol
:ประเทศไทย

Ratified Montreal Protocol on: 7 กรกฎาคม 2532

National Entity(s) Primarily responsible for Implementation of the Protocol:
กรมโรงงานอุตสาหกรรม กระทรวงอุตสาหกรรม

The primary contact(s) for Press inquiries

Name: คุณสุดสาคร พุทธิ

Entity: ผู้อำนวยการสำนักสนธิสัญญาและยุทธศาสตร์
กรมโรงงานอุตสาหกรรม

Address: 75/6 ถนนพระรามที่ 6 เขตราชเทวี กรุงเทพฯ 10400

Phone Number: 662 202 4228, Fax Number 662 202 4015

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phaseout: (ODP Tonnes)

	Peak Use	2005 Use
CFCs (1986)	9057.2	1259.9
Halons	502	10.9
Carbon Tetrachloride	68.2	0
Methyl Chloroform	793.4	0
Methyl Bromide	470.5	146.0

Number of Projects/Activities funded in the country:

103 โครงการ (รวมทั้งโครงการแบบกลุ่มและโครงการเดี่ยว)

Amount of money approved for the country:

55,242,390 เหรียญสหรัฐ (เป็นเงินให้เปล่า 52,767,390 เหรียญสหรัฐ
เงินกู้ปลอดดอกเบี้ย 2,475,000 เหรียญสหรัฐ และ
ยังได้รับเงินกู้ปลอดดอกเบี้ยจากกองทุนสิ่งแวดล้อมอีก 2,500,000
เหรียญสหรัฐ)

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

Name of Firm and contact with phone number: บริษัท มิคเซลล์ จำกัด. ; Contact person: คุณเมืองเรือง ประยงค์ ; phone number: 662 380 6960-1

Brief Description of project and accomplishment :

ให้เงินช่วยเหลือในการปรับเปลี่ยนกระบวนการผลิตที่ใช้สาร CFC-113 เป็น blowing agent ไปเป็นระบบที่ใช้สารทดแทนคือ LPG

Refrigeration Project

Name of firm and contact with phone number : บริษัท กุลธร คอร์ป จำกัด

(มหาชน) ; Contact person : คุณวิศว ชมจำปี ; phone number : 662 282 2151

Brief description of project and accomplishment :

ให้เงินช่วยเหลือในการปรับเปลี่ยนกระบวนการผลิตคอมเพรสเซอร์ชนิด CFC-12 เป็นกระบวนการผลิตเพื่อผลิตคอมเพรสเซอร์ชนิด HFC-134a

Aerosols Project

Name of firm and contact with phone number : บริษัท พี เทค แมนูเคม ; Contact person

: คุณไพโรจน์ สันติกิจกำจร ; phone number: 662 291 1453

Brief description of project and accomplishment :

ให้เงินช่วยเหลือในการปรับเปลี่ยนกระบวนการผลิตกระป๋องสเปรย์ชนิดที่ใช้สาร CFC-11 และ CFC-12 เป็นสารขับเคลื่อน เป็นกระป๋องสเปรย์ที่ใช้ไฮโดรคาร์บอนเป็นสารขับเคลื่อน

Halon Project

Name of firm and contact with phone number : บริษัท แอนตี้ไฟร์ จำกัด ; Contact

person: คุณสิทธิชัย ลิ้มสุวรรณ ; phone number : 662 259 6898

Brief description of project and accomplishment :

ให้เงินช่วยเหลือในการปรับเปลี่ยนกระบวนการผลิตถังดับเพลิงที่บรรจุ Halon-1211 และ 1301 ไปเป็นผงเคมีแห้ง และ HFC-227ea(FM-200)

Projects working with schools or universities

Name of institution and contact with phone number : โรงเรียนราชินี ; Contact person :

อาจารย์บุญรอด สวัสดิพานิช ; phone number : 662 241 1758

Brief description of project and accomplishment :

กิจกรรมงานไอโซนัลเจอร์ในโรงเรียนระดับมัธยมศึกษา เพื่อให้ความรู้เกี่ยวกับการอนุรักษ์ชั้นบรรยากาศไอโซนัล ความสำคัญของชั้นบรรยากาศไอโซนัล โดยมีการเล่นเกมตอบปัญหาที่เกี่ยวข้อง และแจกของที่ระลึกที่เกี่ยวข้องกับการอนุรักษ์ชั้นบรรยากาศไอโซนัล

Important national stakeholders and or champions who have helped in implementation and might speak to press

Name, affiliation and contact phone number

กรมศุลกากร กระทรวงการคลัง

ให้ความร่วมมืออย่างใกล้ชิดในการดำเนินการระบบ Licensing System
โดยทำหน้าที่เป็นผู้ตรวจสอบ ณ
ด่านตรวจศุลกากรเพื่อป้องกันการลักลอบนำเข้า
การเฝ้าระวังการลักลอบนำเข้าตามเขตชายแดน และ
บันทึกรวบรวมข้อมูลการนำเข้าสารทำลายชั้นบรรยากาศโอโซน
662 667 7819 (คุณเปรมวดี ทิมอุบล)

Name, affiliation, and contact phone number

กรมการขนส่งทางบก กระทรวงคมนาคม

ให้ความช่วยเหลือในการดำเนินโครงการเพื่อการเลิกใช้สาร CFC-12

ในระบบปรับอากาศรถยนต์ เช่น

การออกกฎหมายเพื่อป้องกันการดัดแปลงระบบปรับอากาศรถยนต์จากระบบ HFC-134a ไปเป็นระบบ CFC-12

และให้ความรู้แก่ผู้ใช้รถให้สามารถเลิกใช้สารทำความเย็นในระบบปรับอากาศอย่างเหมาะสมถูกต้องตามชนิดของระบบปรับอากาศ

662 272 5751 (คุณมานพ คล้ายบัณฑิต)

Name, affiliation and contact phone number

กรมพัฒนาฝีมือแรงงาน กระทรวงแรงงาน

ให้ความช่วยเหลือในการดำเนินโครงการลดและเลิกใช้สารทำลายชั้นบรรยากาศโอโซนในส่วนของการฝึกอบรมช่างเทคนิคระบบแอร์รถยนต์ และ
ร้านเครื่องเย็น โดยเป็นผู้ฝึกสอนในการจัดอบรมทั่วประเทศ

662 245 4406 (คุณศรีวรรณ ประเสริฐทอง)

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

√	World Bank
√	UNIDO
√	UNEP
√	UNDP

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings : คุณสุดสาคร พุทโธ
ผู้อำนวยการสำนักสนธิสัญญาและยุทธศาสตร์
กรมโรงงานอุตสาหกรรม
- Any national or international award winners
- National members of Panels or Executive or Implementation Committees

The Former Yugoslav Republic of Macedonia

Participation in Implementing the Montreal Protocol

Ratified Montreal Protocol on 10.03.1994

National Entity(s) Primarily responsible for Implementation of the Protocol:
Ministry of Environment and Physical Planning/Ozone Unit

The primary contact(s) for Press inquiries

Name: Marin Kocov, Manager of the Ozone Unit

Entity: Ministry of Environment and Physical Planning/Ozone Unit

Address: Drezdenska 52, Skopje, Macedonia

Phone/fax Number: + 389 2 3066 929

Amount and kind of ozone depleting substances consumed/used by the country at its peak, and latest amount of consumption reported for the chemicals facing the earliest phase-out:

	Peak Use			2005 Use
	Year	(MT)	(ODP T)	(ODP T)
CFCs	1995	529.50	529.50	11.8320
Halons	1997	4.53	36.27	0
Carbon Tetrachloride	1996	4.00	4.40	0.0108
Methyl Chloroform	Not in use			
Methyl Bromide	1999	45.40	31.78	0

Number of Projects/Activities funded in the country: 15

Amount of money approved for the country: US\$ 4,723,975.00

Examples of key projects (by sector where applicable – if it is politically difficult to pick out key projects, a list of projects approved can be appended – but contact information for the firms involved with some key projects would be most helpful to the press)

Foams Project:

1. Phasing out of CFC-11 from rigid PU-sandwich panels manufacturing at Sileks - US\$ 284,236.00

2. Phasing out of CFC-11 from flexible slabstock foam manufacturing at Sileks - US\$ 520,125.00

SILEKS A.D. - KRATOVO

Goce Delcev b.b. Kratovo

Contact person: Mihail Cvetkov, Technical Director

Tel: +389 31 481-649

Mobile: +389 70 441-926

Brief description of project and accomplishment:

SILEKS from Kratovo was the major consumer of ODS in the Republic of Macedonia. About 64% of the total consumption in the country was in the foam production. The first project was completed on time in April 1998 phasing-out of 76 MT, and the second project was completed in December 1999 phasing-out of 280 MT.

Refrigeration Projects

Brief description and accomplishment:

1. Phasing out of CFCs at refrigeration plant of "Frinko"-Bitola - US\$ 1,081,724.00

The project was completed in November 1998 and 104 MT of CFCs were phased-out. HFC-134a was used as a substitute for CFC-11/12.

FRINKO AD, Bitola

Contact person: Cukalkoski Jovan +389 47 257-725

2. Refrigeration Management Plan (RMP) - US\$ 327,224.00

The project objective was to develop a comprehensive and detailed programme for recovery and recycling of the ozone depleting substances used in refrigeration servicing sector including Training programme on good practices in refrigeration maintenance for service technicians, Training of customs officers and Recovery and recycling scheme.

Contact person: Marin Kocov +389 2 3066-929

3. Terminal Phase-out Management Plan US\$ - 279,081.00

Ongoing project to be completed in 2009

Contact person: Marin Kocov +389 2 3066-929

4. Chiller demonstration project - US\$ 178,179.00

Ongoing project to be completed in 2007

Contact person: Marin Kocov +389 2 3066-929

Halon Project

Brief description of project and accomplishment:

Halon Management Plan (HMP) - US\$ 25,000.00

The project objective was to accelerate halon phase-out in the Republic of Macedonia through preparation of National Management Plan. The project was completed in 2003.

Contact person: Marin Kocov +389 2 3066-929

MeBr

1. Demonstration project on the alternatives to the use of methyl bromide - US\$ 259,600.00

2. Phase out of methyl bromide in tobacco seedlings and horticulture – US\$ 1,075,207.00

Project was completed in December 2004 and 45 MT of MeBr were phased-out in tobacco seedlings and horticulture production.

Contact Person: Gordana Popsimonova Ph.D, deputy director, Agricultural Institute, Faculty of Agricultural Sciences and Food, Skopje, Macedonia.

Mobile: +389 70 255-878

Projects working with schools or universities

Name of institution and contact with phone number:

University "St Kiril and Metodij" - Skopje

Blvd. Krste Misirkov bb

Prof. Gjorgji Martinovski Ph.D - Rector
Tel: + 389 2 3239 200
Fax: + 389 2 3293 202
(Project for phasing-out of MeBr)

University "St. Kliment Ohridski" - Technical Faculty – Bitola
Ivo Lola Ribar bb, PO Box 99
Prof. Gjorgji Trombev, Ph.D - Dean
Tel: +389 47 207-702
Fax: + 389 47 203-370
(Project RMP and TPMP)

List of the secondary schools trained in the framework of the project TPMP:

1. USO "Kole Nedelkovski"
Address: Andon Surkov 4, 1400 Veles, Macedonia
Tel.: +389 43 235 086
Contact person: Goce Aleksovski, Director
2. CSNO "Zlate Malakovski"
Address: Boris Kidric 167, Gostivar, Macedonia
Tel.: +389 42 214 333
Contact person: Nedzadin Dzaferi, Director
3. DSEMU "Riste Risteski - Ricko"
Address: Tocila bb, 7500 Prilep, Macedonia
Tel: +389 48 414 447
Contact person: Petre Cheshelkoski, Director
4. DSEMU "Gjorgji Naumov"
Address: Partizanska bb, 7000 Bitola, Macedonia
Contact person: Aco Mihajlovski, Director
Tel: +389 47 258 707
Fax: +389 47 258 064
5. EMUC "Sv. Naum Ohridski"
Address: Makedonska 1, Ohrid, Macedonia
Contact person: Bosko Siljanovski, Director
Tel: +389 46 262-174
6. DETU "Mihajlo Pupin"
Address: Blagoja Stefkovski bb, 1000 Skopje
Tel.: +389 2 2529 720
Contact person: Eftim Pejovski, Director
7. SOU " Gjoso Vikentiev"
Address: 29 Noemvri, 2300 Kocani, Macedonia
Tel.: +389 33 294 247
Fax: +389 33 294 001
Contact person: Nikola Savev, Director
8. EMUC "Kole Nehtetin"
Address: Goce Delcev 101, 2000 Stip, Macedonia
Contact person: Jane Milanov, Director
9. DSTU Metalski Centar "Nace Budjoni"
Address: Tonko Dimkov bb, Kumanovo, Macedonia
Contact person: Dimitar Docevski, Director
Tel.: +389 31 414 332

Important national stakeholders and or champions who have helped in implementation and might speak to press

Name, affiliation, and contact phone number

Gordana Popsimonova Ph.D, deputy director, Agricultural Institute, Faculty of Agricultural Sciences and Food, Skopje, Macedonia.

Mobile: +389 70 255-878

Nikola Stojanovski, M.Sc., refrigeration expert, Center of Environmental Technologies, Skopje, Macedonia

Mobile: + 389 70 350 042

Please put a checkmark by the Implementing agencies that have helped country to achieve reductions

- World Bank
- UNIDO ✓
- UNEP
- UNDP

Name and Coordinates of Other Key Contacts Including:

- Delegates to Protocol Meetings
Several Ministers in the past (Vladimir Dzabirski, mobile +389 71 212-163; Zoran Sapuric, mobile +389 75 408-886);
Imer Aliu - actual Minister, mobile +389 70 410-007
- Any national or international award winners
ECO – White List for 1999
The Ecological Press Center presents RECOGNITION to the Ozone Unit under the auspices of the Ministry of Environment for its successfully achieved and completed activities in the Republic of Macedonia for the elimination of Ozone depleting substances. Skopje, December 30th, 1999, signed by Director: Jane Talevski
- National members of Panels or Executive or Implementation Committees
Marin Kocov, manager of the Ozone Unit, Member of the Executive Committee in 2005