

REPORT
on the activities of Ozone Center of Kyrgyzstan
for the year of 2013.

Ozone Center of Kyrgyzstan was formed in 2002 on the basis of a memorandum between the Government of the Kyrgyz Republic (Ministry of Ecology and Emergency Situations) and UNEP - to coordinate the activities under the Montreal Protocol and realization of the State program to phase out ODS. The Centre's activities are funded by the Multilateral Fund of the Montreal Protocol.

The Center carries out the following activities: conducts of public awareness and industry about the dangers of ODS, provides information about new technologies and alternative ODS substitutes, organizes and conducts training workshops, contributes to the improvement of the legislation on ozone issues, and facilitates the communication of the Government of the Kyrgyz Republic with international organizations.

During the reporting period, the Centre undertook the following types of work:

Improvement of legislation

The new edition of the State program on phase-out of ozone-depleting substances in the Kyrgyz Republic for the period of 2012-2025 is prepared (phase 3), and an appropriate draft Resolution of the Government of the Kyrgyz Republic, which has been coordinated with all concerned ministries and agencies was forwarded to the Government of the Kyrgyz Republic.

The analysis of the technical regulations of the EU and the CIS countries in refrigeration area was made. A draft of technical regulation on "Safety requirements for the operation of refrigeration equipment" is developed. The articles concerning the training and certification of personnel were taken from the European Directives and put into the draft regulation. The official letters were sent to the Ministry of Economics of the Kyrgyz Republic, Center for Standardization and Metrology under the Ministry of Economics of the Kyrgyz Republic, State Inspectorate for Environmental and Technical safety under the Government of the Kyrgyz Republic in order to get comments and remarks. Some comments were made from State Inspectorate for Environmental and Technical safety under the Government of the Kyrgyz Republic. During the workshop "Implementation of alternatives to HCFCs in the Kyrgyz Republic", at the hotel "Dostuk" the draft of the technical regulation was presented, comments from leading experts in refrigeration sphere of Kyrgyzstan were received and taken into account. Draft of technical regulation was harmonized with the Law of the Kyrgyz republic "On normative legal acts" of July 20, 2009 № 241 and sent to the Ministry of Economics for consideration.

Draft of technical regulation on pesticides was revised in accordance with the suggestions and comments of interested organizations. According to the Law of the Kyrgyz Republic "On normative legal acts" of July 20, 2009 № 241 it was remade. The formal requests were sent to responsible developers of technical regulation on pesticides: Department of Chemicalization and Plant Protection, Ministry of Agriculture and Land Reclamation of the Kyrgyz Republic, the Center for Standardization and Metrology under the Ministry of Economics of the Kyrgyz Republic in order to get comments and observations on the draft of regulation. Soon we received the actual comments from Department of Chemicalization and Plant Protection. Draft of technical regulation was to be directed to the Ministry of Economics.

A draft of regulation on quotas for the import of HCFCs to Kyrgyz Republic was prepared. For that aim a lot of international and national documents and literature was observed. The UNEP

document "Implementation of HCFC import quota system" was the basis for the Regulation. The draft of this document was sent to the Ministry of Economics of the Kyrgyz Republic for getting comments and observations. Substantive comments were received, which related to the moment associated with the mechanism of assigning quotas – from now on this responsibility fully lays on the State Agency on Environmental Protection and Forestry. Also, this document was harmonized with the Law "On normative legal acts" of July 20, 2009 № 241.

A special working group to discuss issues to join the Customs Union Was formed. A lot of challenges have been identified in this process because of the different status of countries in Montreal Protocol (CEITs and Article 5 countries with different schedule). Kyrgyzstan has requested UNEP to help in organizing a contact group meeting with the countries of the Customs Union between Russian Federation, Belarus and Kazakhstan and those countries currently considering to join the Customs Union: Armenia, Kyrgyzstan, and Tajikistan.

Training workshops

During the reporting period, as part of the Management Plan for phasing out HCFCs (HPMP) in accordance with the terms of reference, six training workshops were held - 3 for Customs (northern and southern regions) and 3 - for refrigeration specialists.

№ p/p	Venue	Date	Number of participants
Regulation of import/export of ODS			
1	Leninskoe village, training center	22-23.10.2013	24
2	Osh city, Osh Customs	21-22.11.2013	40
3	Leninskoe village, training center	17.12.2013	35
Workshops on introduction of the alternatives to HCFCs			
4	Alamedin village, Chui region	14.04. 2013	35
5	Osh city	25-26.10.2013	30
6	Bishkek city	28-29.11.2013	43

On 14th April 2013, in Alamedin district a training workshop "the best practice on service of cooling equipment" for refrigeration technicians was conducted. RAC experts from the North and the South of the Republic were invited. 35 people took part in workshop.

Within a framework of the UNDP project: 00079153 KYR/PHA/63INV/26 "HCFC Phase-Out Management Plan (HPMP)" tender on purchasing two cascade refrigeration unit working on CO₂ and NH₃ for demonstration project was carried out. There was a work on choosing the type of refrigeration unit which meets the new international environmental requirements, ozone and climate safe technologies, scheme and specification were worked out that is provided UNDP. Construction and testing this demonstration refrigeration unit working on R744 (CO₂) would have allowed our refrigeration specialists to obtain a practical experience for introduction the modern technologies in the refrigeration industry of Kyrgyzstan. For the implementation of this task Ozone Center in common with UNDP announced a tender for the purchasing the above unit. The offer were received from one of the leading companies in sphere of refrigeration equipment of Kyrgyzstan "Caribe-South" and two offers were received from foreign organizations. According to the tender outcomes the price of proposed refrigeration units was 2.5-3 times higher than expecting price and exceeded the approved budget, for this reason further promotion of the action was stopped.

In 2013, at UNDP a new tender was conducted. It was dedicated to the purchasing equipment for maintenance of refrigeration units in such way 16 sets of tools and equipment were purchased for distribution in repair refrigeration sector.

On 25-26 of October, 2013 in Osh within a framework of the project "HCFC Phase-Out Management Plan (HPMP)", Ozone Centre of Kyrgyzstan conducted a training workshop for phase out of HCFC (hydro chlorofluorocarbons) in the Kyrgyz Republic for refrigeration technicians. This event was attended by the refrigeration technicians from the southern regions of Kyrgyzstan. Within a framework of this action the distribution of equipment and tools for the best refrigeration technicians was conducted. The total number of distributed equipment and tools was 10 sets, each set of equipment and tools includes:

- tool bag;
- vacuum pump;
- set of tools for rolling copper tubes;
- adapters for charging vehicle air conditioners;
- manifold;
- electronic test equipment;
- solder for brazing copper pipes;
- propane welding.

The main purpose of tools and equipment distribution is to stimulate refrigeration technicians to a competent and safe work for the environment.

During this workshop the following issues were discussed:

- the ozone layer of the Earth and the urgency of its protection;
- legislation in the sphere of ozone layer protection;
- HCFC Phase-Out Management Plan (HPMP) in the Kyrgyz Republic;
- alternative refrigerants for HCFC in RAC equipment;
- introduction of natural refrigerants;
- application of the new standards;
- the European system of certification of the refrigeration technicians;
- the project of the technical regulation "Safety requirements at operation of refrigeration equipment";
- introduction of refrigerant log-book for the refrigeration technicians;

- training and certification of the refrigeration technicians in the Kyrgyz Republic;
- the methods of extraction and recycling of HCFC and HFC refrigerants.

In addition to theoretical material, also there were given practical advices on rational and proper use of the following tools and equipment:

- vacuum pump;
- adapters for charging vehicle air conditioners;
- electronic test equipment;
- propane welding.

Within a framework of HPMP project, **on 28-29 of November, 2013** a training workshop for phase out of HCFC (hydro chlorofluorocarbons) in the Kyrgyz Republic for refrigeration technicians was conducted. A training workshop was conducted in Bishkek, which was attended by representatives of professional lyceums of Bishkek №3, №93. Most of them study as the refrigeration technicians also among them there were active refrigeration technicians who work as the refrigeration technician. Thereby, the workers of Ozone Centre of Kyrgyzstan, tried to provide the most relevant theoretical and practical information in the sphere of RAC equipment, preservation and protection of the ozone layer that will be required to work in the sphere of RAC equipment. In addition to theoretical material, practical trainings for the correct diagnosis of the refrigeration unit, methods of extraction and recycling of HCFC and HFC refrigerants were conducted. The safe method of the extraction of the refrigerant from the system to a container for recycling was demonstrated. The possible problems and solutions that may occur during the extraction of the refrigerant were shown. Within a framework of this action the distribution of equipment and tools for the best refrigeration technicians was conducted. Ozone Center distributed 6 sets of equipment and tools.

In General, it should be noted that the workshop was conducted in a positive way. The majority of participants at the moment study as the refrigeration technician, many of them participated in such meetings for the first time. Therefore, this workshop is considered to be very important for the achievement of purposes within a framework of HPMP project.

Monitoring of ODS

According to the monitoring results for the year 2013 the amount of recycled CFC-12 (HCFC-22) was 528 (1517) kg, including the purified 54 (228) kg. For the whole period of the project's functioning CFC-12 (HCFC-22) 20036 (2626) kg was recycled, 6779 (390) kg was cleaned. On the chart below there are the overall results of the recovery and recycling for the entire period of functioning of the Ozone Center.

Year	Recovered (kg.)		Cleaned (kg.)	
	CFC-12	HCFC-22	CFC-12	HCFC-22

2003	750	0	0	0
2004	2864,6	0	1101,9	0
2005	3930,8	0	1501,4	0
2006	1569,8	0	1013,7	0
2007	1900	0	588	0
2008	2142,8	0	700	0
2009	2734	0	843	0
2010	1939	0	707	0
2011	896	0	187	0
2012	721	1109	83	162
2013	588	1517	54	228
Total	20036,0	2626,0	6779,0	390,0

Support of the RAC "Ecoholod's" activities

On 12-13 of April, 2013 in Bishkek the seventh National Congress of RAC association of "Ecoholod" took place. The meeting was attended by the leading specialists of our Republic in the sphere of refrigeration and air conditioning equipment, representatives of governmental, scientific, project and other interested organizations.

During the Congress of RAC association of "Ecoholod", the issues on the activities of the Association in 2012, 2011, energy efficient solutions of heating and air conditioning systems, engineering networks and equipment buildings, new scientific developments in refrigeration equipment, ozone and climate safe technologies introduced in the refrigeration industry of Kyrgyzstan, the project of the technical regulation "Safety requirements at operation of refrigeration equipment" were considered. Also the modern cooling systems on natural and alternative refrigerants for high ambient temperature countries and issues of certification of refrigeration technicians and service companies in Kyrgyzstan were discussed.

The Congress adopted the appeal to the Government of the Kyrgyz Republic, which underlined that RAC association of "Ecoholod" fully supports the policy of the country's leadership on sustainable development and ready to make a professional contribution to its implementation, in particular in the area of design and installation of heating, ventilation and air conditioning equipment in the civil construction sector, based on modern energy-efficient technologies, introduction of new "green" technologies in the field of food security of the country in order to prevent negative consequences for the environment. Also at the Congress issues of social protection and safe working conditions for refrigeration technicians were discussed, since in the production process they are dealing with toxic substances, which should be reflected in national legislation relating to issues of labour protection and pension provision. At the end of the

Congress the plan of work of the RAC Association of "Ecoholod" in 2013 was adopted, which consist of the following items:

1. Obtain a license from the Ministry of Education and Science for training specialists of RAC equipment.
2. Create brochure “Manual for the safe handling with refrigerants and soldering pipelines”.
3. Equipping training centers of RAC Association of "Ecoholod" according to the new training requirements of refrigeration technicians.
4. Continue implementation of journals for accounting refrigerants.
5. Continue the work on support of the Web site of the RAC Association of "Ecoholod" www.ecoholod.com.kg .
6. Design and print informational stickers for refrigeration aggregates.
7. Appeal on behalf of the RAC Association of "Ecoholod" to the State environmental and technical inspection to undertake inspection activities for determining the presence of certification of professional activity.
8. Set up a working group for development of the project of the technical regulation “Safety requirements at operation of refrigeration equipment”.
9. Create handbook “Electronic systems of control and protection for refrigeration aggregates”.
10. Create Attestation Commission under the admission of the Applicant to perform repair and installation work on RAC equipment.

In 2013 on the basis of the professional technical lyceum № 93 in Bishkek there was organized educational and manufacturing Center for the preparation for the certification of refrigeration technicians. Ozone Center allocated necessary funds for RAC association of "Ecoholod", with the help of which the necessary equipment and inventory, technology stands were purchased, prepared and approved by the Ministry of education and science of the Kyrgyz Republic the professional training and certification program, received a special license for educational activities. **On 15th of April 2013**, a license for educational activity on training specialists of refrigeration and air conditioning equipment was obtained. Also, the Ozone Center purchased and handed over 16 sets of tools and supplies to graduates of educational institutions.

Training and certification of refrigeration technicians.

RAC association of "Ecoholod" in common with the Kyrgyz State Technical University is training 30 mechanical engineers in the field of refrigeration and air conditioning equipment, training electromechanics for repair of refrigerators under professional lyceum №3 of Bishkek (166 trained electromechanics); under professional lyceum №93 of Bishkek (prepared 65 electromechanics); under professional lyceum № 94 of Bishkek (prepared 147 electrical engineers); under professional lyceum №1 of Jalalabat (prepared 127 electromechanics), under

training center of RAC "Ecoholod" (prepared 6 electromechanics, first graduation). Activity in this area is fulfilled under the direct participation of the members of the Association.

According to the contract between the Ozone Center, RAC Association of "Ecoholod" and MSU at Moscow to the Faculty "Cooling technology" from Kyrgyzstan during five years were directed 54 people for admission to the aforementioned Russian university. Currently, all the entrants are trained on basis of budget at the expense of the Russian Federation.

During the reporting period were issued:

- Refrigerant log-book for refrigeration technicians, there are comparative tables on ratio between units: power, different temperature scales, pressure used in refrigeration technologies, data on the main refrigerants used in Kyrgyzstan-HCFCs, HFCs and natural refrigerants, as well as extracts from the legislation of the Kyrgyz Republic in log-book. This edition is dedicated to refrigeration technicians for data collection on the use of refrigerants while servicing the refrigeration equipment.
- Brochure "Manual on refrigerators for sales managers consultants", which contains detailed information about the history, structure and principles of action, energy consumption, care, and selection of the domestic refrigerators. The brochure is intended for potential buyers and managers-consultants on domestic refrigerators.

Cooperation with customs

Within the framework of HPMP project, the Ozone center of Kyrgyzstan on **10-11 of October 2013** held a training seminar on regulation of import/export/transit of ODS and ODS-containing equipment at the training center of the SCS in Leninskoe village of Alamedin district, for Customs officers of the northern regions of the country. The strategy of these seminars is to present to customs officials the importance of ozone layer depletion, and the relevance of clear and coordinated activities of customs and border services to detect illegal trade, trafficking, illicit import and export of ODS. The main tasks were also:

- Informing customs officials about the problem of depletion of the ozone layer.
- Acquaintance with the international legal acts in the field of climate and the ozone layer and the national legal acts for the protection of the ozone layer.
- Identification of ODS and ODS-containing equipment.
- Information on methods and techniques of illegal trade of ODS.
- Acquaintance with the provisions and schedules of the phase-out of ODS in accordance with the State program.
- Teaching to detect improperly labeled containers, equipment and products containing ODS.
- Awareness of safety regulations during transportation and storage.
- Clarification of the role of Customs officers and other key stakeholders in the implementation of ODS import/export control and substances regulated by "green customs"
- Testing.

During the two-day seminar, the participants got acquainted with the concept of the Earth's ozone layer, the relevance of its defense, the legal acts for the protection of the ozone layer, the Republic's obligations under the Montreal Protocol and other international environmental agreements. The methods of illegal trade of ODS and ODS-containing equipment were revised, as well as the specific cases of smuggling in our country, the detection of incorrectly

labeled containers, common trade names for ODS and mixtures and products containing ODS, safety, transportation and storage of ODS. It was told about exclusive role of Customs officers in the implementation of control of ODS import/export and other substances regulated by "green customs". After that, customs officers conducted workshops with the use of gas detector in order to consolidate the obtained knowledge during the presentations. At the end of the seminar there was conducted a test in order to identify the knowledge received by customs officials during the two-day training workshop.

The Ozone center of Kyrgyzstan on **21-22 of November 2013** held a training seminar on regulation of import/export/transit of ODS and ODS-containing equipment in Osh for Customs officers of the southern region. The seminar was attended by 40 persons. The main purpose of these seminars is to reduce the cases of illegal import/export of ODS through the coordinated efforts of Customs officers, environmental supervisors and licensor-Ministry of economy of the KR. The workshop's topics were - the ozone layer of the Earth, the legal acts for the protection of the ozone layer and climate change, the Montreal Protocol and other international environmental agreements. The methods of illegal trade of ODS and ODS containing equipment were considered in detail, specific cases of smuggling in our country, the detection of incorrectly labeled containers, common trade names for ODS and mixtures and products containing ODS, safety, transportation and storage of seized ODS. It was also discussed in detail about international environmental agreements, and the crucial role of Customs officers in control of import/export, administered as part of the UNEP "Green Customs". Videos on preservation of the ozone layer and illegal trade of ODS were shown, as well as of other environmental objects. After that, customs officers were presented practice sessions using gas analyzers, and at the end of the seminar the participants were tested for assimilation of information. This seminar was held in a positive manner. During the discussions one fact concerning the issue of licenses for the import/export of ODS and ODS-containing products was revealed. Businesses in the South of the country are experiencing difficulties in obtaining documents for export-import operations with shipment containing ODS. The fact that the functions of the responsible authority, making the issuance of certificates for whether this equipment has ODS or not, is completely transferred to the central apparatus of the SAEPPF. Previously, these certificates were issued in territorial administration of environmental protection, there are specialists who had necessary education and passed training within the framework of the Montreal Protocol. However, not all entities and individuals have the opportunity to come and receive help in Bishkek. Due to this circumstance often the shipment stands idle for a long time in customs terminals, forcing their owners to pay the daily fee for its keeping. Besides that, there are elements of corruption among Customs officers, as well as in ecological entities.

The same problem exists in the case of destroying the shipment containing ODS or other products prohibited for importation into the country. Harmonization of documents for destruction again is entrusted to the central apparatus of the SAEPPF. According to the Customs officers, there were cases where they were waiting for month for the approval from SAEPPF of destruction of containers containing ODS.

On December 17, 2013, there was a full-day seminar on green customs' problems at the training center of the SCS, organized at the request of the SCS for newly recruited staff of customs posts and terminals. The Ozone Centre of Kyrgyzstan presented topics related to Earth's ozone layer, transit, import and export of ODS, it was told about the Kyrgyz Republic's obligations under the Montreal Protocol and other international environmental agreements. Information on the detection of incorrectly labeled containers, common trade names for ODS and mixtures and products containing ODS, safety, transportation and storage of seized ODS was provided. Also the staff of OC explained in detail about international environmental agreements and the crucial role

of Customs officers in control of import/export, administered as part of the UNEP Green Customs". Videos about preservation of the ozone layer and illegal trade of ODS were shown, as well as of other environmental objects. In particular, the themes about the laws for the protection of the ozone layer of the Earth were presented. The important point here was the types related to the use of ODS and ODS-containing equipment, as well as responsibility for the offence under the code of administrative liability of the Kyrgyz Republic. It was explained in detail about specific cases of illegal trade in ODS in our country, among which there were flagrant violations of the legislation of the Kyrgyz Republic. At the end of the seminar Customs officers were presented practice sessions using gas analyzers, and then summed up.

The Ozone Centre is registered in ENVIRONET network of the World Customs Organization as a focal-point for the illegal trade of ODS (www.wcoomd.org). After reviewing the structure and materials of the Environet, in 2013, there was obtained an access to this network, Environet, where every week there is a new information and files associated primarily with ozone-depleting substances, with illegal trade of ODS worldwide.

For distribution among the structures of the customs service in customs training centre there were transferred 500 posters and leaflets, 50 guides relating to international environmental agreements. A typographic order of quick reference for Customs officers and law enforcement personnel was made "changes to the HS nomenclature 2012 on HCFCS and some other ODS, in quantities of 1000 pieces, which are distributed to customs officers.

Three cases of illegal trade of ODS were prevented in the first quarter of 2013: two national airlines were trying to import halons without obtaining licenses, one company unregistered in the IPIC system addressed about import of 40 tons of HCFCS from China.

International cooperation

Ozone Center of Kyrgyzstan and UNEP DTIE OzonAction Programme organized the Thematic meeting on HPMPs: progress in implementation of prioritized activities and opportunities/barriers in introduction of low or zero GWP (global warming potentials) alternatives to HCFCs ", which was conducted on 24-26 September 2013 in Bishkek, Kyrgyzstan.

Objectives of the thematic meeting:

- Overview of HPMP implementation in each country: status and prioritized activities (investment project implementation, regulations to be set up or enforced, training activities, outreach, etc.) to comply with freeze target in 2013 and 10% reduction in 2015;
- Determination of barriers for promoting low GWP, higher energy efficiency technologies, and ways to remove these barriers at the national level;
- Discuss further steps in development of the stage 2 of the HPMPs for Armenia, Republic of Moldova and Kyrgyzstan.

Representatives of NOU and experts from the RAC sector of ECA countries (Armenia, Georgia, Moldova, Turkmenistan, Kyrgyzstan, Belarus and Tajikistan) and representatives of the implementing agencies (UNDP and UNEP) and international expert from the Republic of Moldova took part in this meeting.

On 24-28 of June 2013, the head of the Ozone Center participated in the 33rd Meeting of the Open-ended Working Group of the Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer, which was conducted in Bangkok, Thailand.

On 21-25 of October 2013, the head of Ozone Center participated in 25th Meeting of the Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer, which was held in Bangkok, Thailand. More than 560 participants took part in the meeting: representatives of the governments, of UN agencies, of intergovernmental and non-governmental organizations and of the scientific community.

At the preparatory meeting a number of main issues and project proposals of meeting participants an open-ended Working Group, developed at its thirty-third session, held in June 2013 were considered. Parties adopted 12 main and nine procedural decisions on the Meeting. The main decisions taken by MOR25 includes questions about replenishment of the Multilateral Fund (MLF) of the Montreal Protocol on small island developing States in 2015-2017, the Group of the Technology and Economic Assessment Panel (TEAP) and report on alternatives to ozone-depleting substances (ODS) .The Procedural decisions include: budget of the Ozone Secretariat, organizational issues related to the TEAP and choice selection of members of the Montreal Protocol in 2014.

At the meeting of the parties the regional meeting of EECCA countries was conducted, during of which Ukraine was nominated for the chairmanship on the next MOP26 and were nominated countries for membership on Committee on the implementation of the MP and the Board of the Multilateral Fund. On behalf of the EECCA the statement for MOP25 about the need to advance the work of contact group on proposed amendments to the Montreal Protocol on HFCs and PFCs was prepared. The Head of Ozone Center of Kyrgyzstan was invited to participate in the 71 Executive Committee meeting of the Multilateral Fund in December 2013. Meetings with the leadership of the executive agencies (UNDP, UNEP, UNIDO) on the implementation of projects on HCFCs and perspectives of project development of the second stage on phase-out of ODS were held. Also was presented the DVD on raising public awareness developed by the Ozone Center of Kyrgyzstan with its subsequent dissemination of the EECCA countries.

On 23rd of October 2013, the meeting dedicated to the organization of the regional meeting under UNEP auspices that will take place in March of 2014 in Minsk on the issues arising from the acceding countries of Article 5 of the Montreal Protocol (Kyrgyzstan, Armenia) to the Customs Union was conducted.

Realization of awareness raising campaign covering public and industrial sector on danger posed by ODS.
During the reporting period the following activities was held:

- **On 16th of September 2013**, representatives of the Regional Centre of Expertise on education for sustainable development, the Republican Children's and Youth Center of Ecology, Local Lore and Tourism, the State agency on environmental protection and forestry and Ozone Center carried out an ecological action "A healthy atmosphere, the Future We Want", devoted to International day of ozone layer protection. The action was held at the school number 24 of Bishkek city. Pupils from the Republican Children's and Youth Center of Ecology, Local Lore and Tourism made a speech with poetic congratulations on occasion of the International day of ozone layer protection. Within the framework, at the first part of the action there were held numbers of activities, such as information workshop for teachers and presentation of educational resource for Protection of Environment and Sustainable Development "Green Pack for Central Asia – Glaciers". The «Green Pack» includes 25 themes, such as "Climate Change", "Atmosphere", "Ozone layer" and many others. Then the ceremony of awarding the winners of the Republican competition of the best ecological pictures, posters, photos and poems under the slogan of "A healthy atmosphere, the Future We Want" took place. The competition lasted from 1 August 2013 to 12 September 2013. In total, there were received about 200

papers from different regions of Kyrgyzstan. 21 pupils were given encouragement prizes. All winners of the competition were awarded with diplomas, certificates, books and encyclopedias. After lunch the second part of the action started. Within the framework, at the second part of the action information games, quizzes and banner game “Ozzy Ozone” for pupils were held. About 40 teachers from different schools and more than 60 pupils participated in this action. At the end “Ozzy Ozone” Comic books and games, leaflets, information bulletins, brochures and multimedia educational resource “Green Pack for Central Asia – Glaciers” were disseminated to all pupils and teachers.

- **On 16th of September 2013** members of the public association “Kaiberen”, faculty of the department of the environmental protection and natural resources conservation of the Institute of mining and mountain technologies named after Asanaliev U. carried out an ecological action “A healthy atmosphere, the Future We Want” devoted to International day of ozone layer protection for teachers and students of the universities. During action was organized an exhibition of posters and pictures. Representatives of Ozone center, teachers of different universities and more than 150 students took part in this action. At the end “Ozzy Ozone” Comic books and games, leaflets, information bulletins and brochures were disseminated to all students and teachers. The action was broadcasted in mass media: TV channel KTR and EITR.
- **On 18th of September 2013**, representatives of the Regional Centre of Expertise on education for sustainable development, the State agency on environmental protection and forestry and Ozone Center carried out an ecological action “A healthy atmosphere, the Future We Want”, devoted to 16th September – International day of ozone layer protection. The action was held at Osh Regional Children's Art Center in Osh town. On August of 2013 was declared Republican competition of the best ecological pictures, posters, photos and poems under the slogan of “A healthy atmosphere, the Future We Want”. Pupils from all Kyrgyzstan and even from the most remote districts took part at this competition. During the action children from south region (Osh, Aravan, Uzgen, Nookat, Kara-Suu, Kara-Kulja, Alai and Chon-Alai) were awarded with various prizes. Within the framework of the action a number of activities, such as information workshop for teachers and games and quizzes for pupils. Then the practical methods to work with pupils on ecological problems were demonstrated for teachers. More than 40 teachers and about 60 pupils took part in this action. At the end “Ozzy Ozone” Comic books and games, leaflets, information bulletins, brochures and multimedia educational resource “Green Pack for Central Asia – Glaciers” were disseminated to all pupils and teachers.
- **On 27th of September 2013**, seminar devoted to 16th September – International day of ozone layer protection and “New inhalational technologies for chronic respiratory diseases and protection of the ozone layer” carried out at the National Centre of cardiology and therapy named after ac. M.Mirrahimov. The seminar was held with the participation of the Head of the Department of Pulmonology and Allergology, M. D., Professor T.M. Sooronbaev and heads of regional hospitals, Group of family doctors, Center of Family Medicine. Altogether, about 40 people took part in this seminar.
- **On 4th of October 2013**, at the K.I. Skryabin Kyrgyz National Agrarian University there was held an ecological action “A healthy atmosphere, the Future We Want” devoted to 16th September – International day of ozone layer protection for students. More than 100 teachers and students took part in this action. Within the framework of the action leaflets, information

bulletins and brochures were disseminated to all students and teachers and was organized an exhibition of posters and pictures.

For implementation of the project "Introduction of methyl bromide alternatives and gradual reduction of use in the Kyrgyz Republic" and the State Program on Food Security the Ozone Center of Kyrgyzstan organized "Educational Scientific and Production Center for the storage of grain stocks and its processing products - ESPC" at the Kyrgyz National Agrarian University named after K.I. Skryabin. At the Center different educational, scientific, practical and informative activities for improving scientific knowledge and practical experience in the production, storage and processing of grain stocks were carried out.

On 10th of October 2013, the Ozone Center of Kyrgyzstan gave equipment to Educational Scientific and Production Center:

- 1) Computer – 1 set.
- 2) Printer Canon LBP 1120 Laser Shot – 1 pcs.
- 3) Scanner HP Scan jet 3800 – 1 pcs.
- 4) The optical microscope Levenhuk – 2 pcs.
- 5) Electronic laboratory balance Wigam – 1 pcs.
- 6) Moisture meter Wile-55 (determinant of grain moisture) – 1pcs.

- **On 26th of November 2013**, workshop on ESD in the framework of the UN Decade of Education for Sustainable Development in Kyrgyzstan for educational institutions system Professional-Technical Education was carried out at Professional lyceum № 43, Jany-Jer village. The Head of Ozone Center Mars Amanaliev presented a detailed report on “The ozone layer protection”, “Green technology and sustainable development”.
- **On 6th of December 2013**, the Ozone Center participated in the conference "Ecological problems of Kyrgyzstan through Children's Eyes", organized by Republican Children's and Youth Center of Ecology, Local Lore and Tourism and the State agency on environmental protection and forestry at high school №52.
- **On 8-10 December 2013**, the National Workshop on Education for Sustainable Development was held at the Aurora Sanatorium, Bulan-Sogottu village. The Regional Centre of Expertise on education for sustainable development, the State agency on environmental protection and forestry, Ozone Center and other institutions took part in this workshop. During the seminar the Head of Ozone Center Mars Amanaliev made a presentation about the activities of the Ozone Center in sustainable development.

During 2013 there was conducted updating, replenishment with information the following sites: www.climate.kg , www.ozonecenter.kg , www.ecoholod.com.kg , www.ecofum.org.kg . The sites updating in regular as received and released new information.

During the reporting period, within informing people was published:

- Booklet “Twenty questions and answers about the ozone layer” on Russian language, 500 copies;
- Leaflet “Key achievements of the Montreal Protocol to date” on Russian language, 500 copies;

- Leaflet “Brief primer on the Montreal Protocol” on Russian language, 500 copies;
- Leaflet “Some ideas for stories on Montreal Protocol related matters” on Russian language, 500 copies;
- All four issues of the “Ozzy Ozone” comic books were aggregated and about 300 copies were printed for distribution;
- Brochure “Stand up for the Ozone Layer and the Millennium Development Goals” on Russian language, 300 copies;
- Publication “Information Paper on synergies between the Montreal Protocol and other International Agreements” on Russian language, 200 copies;
- Ozzy Ozone game was prepared and disseminated to more than 150 pupils from different schools.
- Ozzy Ozone Game was printed in size of 5x5 meters in order to inform pupils by means of the game about basic principles and facts regarding ozone layer.
- In honor of International day of ozone layer protection UN Secretary General’s message was disseminated at schools, universities, nongovernmental organizations, mass media, and placed on web-site of Ozone center.

Information about activity, carrying out in frames of the project, had been presented in mass media of the republic:

- **16.09.2013**, the KTR and EITR TV, News block, The report from ecological action “A healthy atmosphere, the Future We Want” devoted to International day of ozone layer protection, which was held Institute of mining and mountain technologies named after Asanaliev U.;
- **18.09.2013**, Free Radio Europe, www.azattyk.kg , interview with the Head of the Ozone Center Mars Amanaliev.;
- **16.09.2013**, www.kant.kg , “International day of ozone layer protection”;
- **16.09.2013**, www.kg.akipress.org , “International day of ozone layer protection”;
- **16.09.2013**, www.vb.kg , “International day of ozone layer protection”;
- **16.09.2013**, www.kabar.kg , “Environmental action on ozone layer protection”;
- **16.09.2013**, www.kyr.24.kg , “A healthy atmosphere, the Future We Want”;
- **16.09.2013**, <http://www.azattyk.org> , “Environmental action on ozone layer protection”;

- 16.09.2013, www.for.kg , “International day of ozone layer protection”;
- 16.09.2013, <http://ecobilim.kg/archives/2814> , “International day of ozone layer protection”;
- 18.09.2013, www.tushtuk.kg , “International day of ozone layer protection”;
- 19.09.2013, www.time.kg , “A healthy atmosphere, the Future We Want”;
- 20.09.2013, www.fergana.akipress.org , “Environmental action on ozone layer protection”;
- 23.09.2013, www.ca-news.org , “Introduction of alternatives to HCFCs”;
- 23.09.2013, www.kg.akipress.org , “Introduction of alternatives to HCFCs”;
- 23.09.2013, www.ekois.net , “Thematic meeting on HPMPs: progress in implementation of prioritized activities and opportunities/barriers in introduction of low or zero GWP (global warming potentials) alternatives to HCFCs " in Bishkek, Kyrgyzstan”;
- 24.09.2013, www.kabar.kg , “Thematic meeting on HPMPs in Bishkek”;
- 24.09.2013, www.vb.kg , “Introduction of alternatives to HCFCs”;

Work Plans for 2014

Within a frame work of the ongoing UNDP project for the introduction of alternatives to HCFCs in the refrigeration sector for 2014, 5280 USD is allocated; these funds will be directed to the purchase of the technological equipment. Within a framework of UNEP there will be funded the conducting workshops for technicians in the amount of USD 3520.

	IA	Project	Total	Tranche 1	Tranche 2
1 & 2. Non-investment Components	UNEP	1. Legal and Regulatory Action	\$ 5,200	\$ 5,200	
	UNEP	2. Technical Capacity Strengthening			
		2.1. Customs/environmental training	\$ 12,500	\$ 12,500	
		2.2. Technician Training	\$ 12,500	\$ 12,500	
		2.3. Monitoring	\$ 5,000	\$ 1,480	\$ 3,520
		Sub-Total for UNEP	\$ 35,200	\$ 31,680	\$ 3,520
3. Investment Component	UNDP	3.1 Initial development of HCFC Refrigerant Management Plan	\$ 52,800	\$ 47,520	\$ 5,280
		Sub-Total for UNDP	\$ 52,800	\$ 47,520	\$ 5,280
Sub-Total UNEP			\$ 35,200		
Sub-Total UNDP			\$ 52,800		
Support cost UNEP (13%)			\$ 4,576		
Support cost UNDP (9%)			\$ 4,752		
Grand Total UNEP			\$ 39,776		
Grand Total UNDP			\$ 57,552		

In 2014 there are plans for the further implementation of the commitments on the phase out of ODS (ozone-depleting substances). The business plans of UNDP and UNEP for 2014 includes the program for the development of the projects on the phase out of ODS in the Kyrgyz Republic for 2015-2025. (phase 2) cost is 30 thousand USD. The investment part of these projects is estimated at 1.47 million USD, including the establishment of centers for recovery and recycling of HCFC, the

collection and utilization of ODS , conversion of production for assembly and installation of HCFC equipment that do not influence the ozone layer and climate change. It should be noted, that the funding of these programs will depend on the outcomes of the negotiations currently taking place between the parties to the Montreal Protocol and the United Nations Convention on climate change, on the problems of synergy and control of greenhouse gases-hydro fluorocarbons and per fluorocarbons. The project on making amendments to the Montreal Protocol on these substances is discussed since 2007 to 2013 during the conferences and meetings of the parties.

