

REPORT
on the activities of Ozone Center of Kyrgyzstan
for the year of 2012.

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.

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	22.10.2012	30
2	Osh city, Osh Customs	5.12.2012	23
3	Jalalabad city	6.12.2012	19
National workshop on introduction of the alternatives to HCFCs			
4	Bishkek city	From 13 to 4 of October 2012.	44
3	Kara-Kul city (Jalalabad region)	From 21 to 22 of April 2012	31
The best practice of servicing of refrigeration equipment			
5	Osh city	30-31 October 2012	45

21-22 of April 2012. The national workshop on the on introduction of alternatives to HCFCs in the Kyrgyz Republic of UNDP 00079153 KYR/PHA/63INV/26 for refrigeration technicians of Republican Public Union "Ecoholod" took place. The most experienced mechanics in refrigeration service were selected and invited. The total number of attended participants was 31 people. The main purpose of the national workshop was to review alternatives to HCFCs, searching for the most suitable systems operating on natural refrigerants applicable for hot climates like in Kyrgyzstan. The workshop lasted two days and consisted of theoretical and practical trainings where the latest demonstration equipment was used. Training manuals issued by UNEP and the Ozone Center were used as references. Also videos were showed.

3-4 of October 2012. In Bishkek under the UNDP project KYR/PHA/63INV/26 «Management Plan for the HCFC phase out" the second national workshop on the implementation of alternatives to HCFCs in the Kyrgyz Republic took place. Only 44 people attended. The presentation on "Protecting our environment for future generations" was made, dedicated to September 16 - International Day for Protection of the Ozone Layer and the 25th anniversary of the Montreal Protocol. During the workshop following materials were distributed: "Journal for refrigerants," newspaper "Jen Ene" and "Asyl Jer", leaflets, newsletters and magazines.

30-31 of October 2012. Training workshop on "Best practices of servicing of refrigeration equipment" for refrigeration technicians was held in Osh. There were invited the

experts from the south of the republic working with the service of refrigeration and air conditioning systems. All together 45 people attended.

Under the UNDP project 00079153 KYR/PHA/63INV/26 «Management Plan for the HCFC phase out" there was tendered a two-stage procurement demonstration installation running on CO₂ and NH₃. The work on selection of the type of refrigeration unit, in charge with new international environmental requirements, ozone and climatically safe technologies was done. Construction and testing of this demonstration installation running at R744 (CO₂) would enable our refrigeration technicians to gain practical experience in applying advanced technologies in refrigeration system of Kyrgyzstan. To fulfill this task the Ozone Centre and UNDP announced a tender for the purchase of that equipment. The proposals from one of the leading companies of Kyrgyzstan in the cooling technique area "Caribe-South" and two foreign organizations were received. As a result of the tender, the price of offered installation was exceeded the planned budget for 2.5-3 times, and for this reason, further promotion of the event was stopped. The funds for the purchase of that equipment still remain in the UNDP for a new tender in 2013.

Monitoring of ODS

According to the monitoring results for the year 2012 the amount of recycled CFC-12 (HCFC-22) was 721 (1109) kg, including the purified 83 (162) kg. For the whole period of the project's functioning CFC-12 (HCFC-22) 19448 (1109) kg was recycled, 6725 (162) 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
Total	19448,0	1109,0	6725,0	162,0

Support of the RPU "Ecoholod's" activities

On April 20, 2012 with the support of Ozone center, in Kara-Kul the annual conference of the RPU "Ecoholod" took place. Refrigeration specialists from all regions of the country had come. The delegates from the RPU "Ecoholod" from all over the country were invited for the meeting. Those are the leading experts of our country in servicing service refrigeration system. At the meeting of the RPU "Ecoholod" the following issues were considered:

- about activities of the Union for 2011, and the role of refrigeration in the economy of the Kyrgyz Republic;
- about training and retraining of the specialists of cooling equipment in the Kyrgyz Republic;
- about implementation of the regulation on state certification of specialists working with chlorofluorocarbons and natural refrigerants;
- about liaison with international and national associations of refrigeration and conditioning systems' specialists;
- about support of Web site of the Public Union "Ecoholod";
- about creation of a centralized accounting of receipts and disbursements of refrigerants to the Republic;
- about taking part in the development of technical regulation for construction and safe operation of refrigeration units using various ozone saving refrigerants;
- about amending in technical regulation the provisions concerning the transfer of powers for certification to the RPU "Ecoholod" on free and voluntary basis;
- about assistance to graduates of vocational schools with internship;
- about development and implementation of the project of acting demonstrational or two-stage cooling experimental installation, running on natural refrigerants with the least impact on the ozone layer and climate change.

The information about 6th congress is available on www.ecoholod.com.kg

Training and certification of the specialists of refrigeration

In March 2012, according to the agreement signed between the Ozone Center and the MSU PBT Moscow University, the meeting of Mr. Babakin B.S., the Professor, doctor of technical sciences, Dean of "Refrigeration" faculty MSU PBT, with enrollees with the aim to enter the University on the budgetary basis was organized. 18 people from Kyrgyzstan participated there. All applicants have successfully passed the exams and enrolled in MSU PBT Moscow.

From 12 to 14 of June 2012 the representatives of the Center participated in the Thematic Meeting concerning certification of technicians in cooling area which took place in Georgia, Tbilisi, where a report on "Training and certification of refrigeration specialists in Kyrgyzstan" was made.

From 19 to 20 of September 2012, the representatives of the Center and State Inspectorate for Environmental and Technical safety under the Government of the Kyrgyz Republic participated in bilateral meetings of Association of refrigeration specialists of Kyrgyzstan and Armenia, which was held in Yerevan, where "Ecoholod" presented a report and then the project "Regulation on quotas for HCFCs in KR".

From 26 to 29 of November 2012 head of the RPU "Ecoholod" participated in the contact meeting "Strengthening the national associations of refrigeration specialists and conditioning systems specialists from Eastern Europe and Central Asia", which was held in city of Casale Monferrato, Italy, where he made a presentation on the Republican Public Union "Ecoholod".

The Center's worker participated in the international symposium "Alternative refrigerants for countries with hot climate" Dubai (UAE), held on 16-17 October 2012. In the symposium a new alternative refrigerants for countries with hot climate, with low ozone depletion potential (ODP) and global warming potential (GWP) was presented, as well a number of foreign companies presented various refrigeration equipment and machinery.

RPU "Ecoholod" together with the department of KSTU trains 30 mechanical engineers in the field of refrigeration and air conditioning, trains electricians to repair refrigerators under vocational school № 3 in Bishkek (27 trained electrical engineers), under VS № 93 in Bishkek (33 trained electrical engineers), under VS № '94 Bishkek (30 trained electrical engineers), under VS № 1 Jalalabad (17 trained electricians). The activities in this area are performed with the direct participation of members of the Union.

During the reporting period were issued:

- Journal of registering the refrigerants for refrigeration mechanics-Logbook, where the comparative tables about the relation between the units are given: power, various temperature scales, the pressure used in refrigeration, data on the main refrigerants used in Kyrgyzstan - HCFCs, HFCs and natural refrigerants, as well as the extracts from the legislation of the Kyrgyz Republic. This publication is designed for refrigeration mechanics to fix some data on the use of refrigerants during servicing of refrigeration equipment.
- Brochure "Guide about refrigerators for sales managers" which contains detailed information about the history of creation, mechanism and operation, energy rating, care, accessories to climatic class and choice of household refrigerators. The brochure is destined for potential buyers and managers-consultants of household refrigerators.

Cooperation with customs

22-23 of October 2012. Training workshop for customs officials concerning the regulation of import / export / transit / ODS and ODS-containing equipment took place. There were 30 people attended. During the seminar the following films were shown: "Nothing to declare", "Illegal trade" and "Green Customs", practical lessons about determining ODS were passed. Following materials were handed in: the book "Green Customs", quick reference guide for customs and law enforcement officials "Changes in the nomenclature of the HS 2012 and HCFCs and some other ODS", Journal "Informational leaflet for customs officers and environmental inspectors" and the booklet "Instructions for Customs on Regulation of ODS". Similar workshops were held on December 3-4, 2012 in the city of Osh, the seminar was attended by 23 people, in Jalalabad town (4-6 of December 2012) - 19 people attended. At the workshops each customs officer were given handouts (the Montreal Protocol on Substances that Deplete the Ozone Layer, the Vienna Convention for the Protection of the Ozone Layer, the book "Green Customs" table of the most common ODS, quick reference guide for customs and law enforcement officials "Changes in the nomenclature HS 2012 for HCFCs and some other ODS, Journal "Informational leaflet for customs and environmental inspectors" and the booklet "Instructions for customs on Regulation of ODS. Practical lessons were made. During the presentations, several questions were asked about the amendments to the Montreal Protocol, also customs officers were interested about the administrative responsibility for violations in the field of environmental protection. The presentation about illegal trade of ODS made pretty strong resonance because it was closely associated with the activities of customs officers. Then those crimes were clearly demonstrated in the pictures, slides (evasion, false labeling, concealment, leakage). There was also told about the small nuances and peculiarities of each of the paths of illegal trade and measure how to combat these types of offenses. At the end of the workshop the tests for each customs officer were handed in order to consolidate the material at the seminar.

In 2012 the Ozone Center was registered in the ENVIRONET of WCO (World Customs Organization) as a Focal-point of the issues related to illegal trade of ODS

(www.wcoomd.org). After getting acquainted with the structure of Environet and studying the materials about the World Customs Organization, access to Environet network was received, where every week there are a new information and files mainly associated with ozone-depleting substances, transit and illegal trade of ODS worldwide.

During the workshops in the south the customs offices at the borders with Uzbekistan were visited, the posters "No illegal trade of ODS" and leaflets with extracts from the Law "On the Protection of the Ozone Layer" and the Code of Administrative Responsibility were distributed. During visits to customs posts the problem of illegal trade of ODS on the border with Uzbekistan was discussed. The State's Customs Committee of Uzbekistan reported about 8 confiscations of refrigerants and equipment from China in 2011, which were transported bypass roads through Kyrgyzstan to Uzbekistan by pedestrians, cars and trains. In all cases, the goods were confiscated because of absence of import permit and a judicial investigation was opened.

In addition the issue of re-export of ODS from China to the region was discussed. The Customs Training Centre was handed 500 posters and flyers, 50 Guides on international environmental agreements. The typographical order of quick reference for customs and law enforcement officials "Changes in the nomenclature of the HS 2012 and HCFCs and some other ODS" in 1000 pcs implemented. Those are distributed among customs officers.

International cooperation

On March 27-30, 2012 in Bishkek the annual meeting of the Regional Ozone Network for Europe and Central Asia was held, as well as a meeting of experts, engineers and architects on Refrigeration and Air-Conditioning. Kyrgyzstan is a member of the Regional Ozone Network for countries operating under Article 5 of the Montreal Protocol. Center's staff participated in the preparation, organization and holding of the annual international meeting. During the meeting, there was an exchange of experiences, plans of joint action for the successful implementation of national programs of the network. At the meeting there was a round table on issues of conductive technologies for climate and ozone in refrigeration and air conditioning areas.

Representatives of the NOU participated in the meeting on the Certification of the specialists of refrigeration, which was held on June 12-14, 2012 in Tbilisi, Georgia.

On 23-27 July 2012 the head of the Center participated in the 23th workshop of the Parties to the Montreal Protocol, which was held in Bangkok, Thailand.

Head of the Center participated as an international expert in the workshop on the adoption of alternatives to methyl bromide in the post-harvest sector and quarantine pre-shipment of products in the Republic of Turkmenistan in the period from 23 to 25 September 2012.

Meeting on Law Enforcement with representatives of Customs and Ozone Centers was held from 9 to 11 October 2012 in Istanbul, Turkey.

On 11-16 November 2012 the head of the Center participated in the 24th Conference of the Parties to the Montreal Protocol, held in Geneva, Switzerland.

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 29th March 2012** at the hospital of Issyk-Kul oblast there was seminar "New inhalational technologies for chronic respiratory diseases and protection of the ozone layer", within the project "Strengthening the institutional capacity for the transition to freon-free Metered Dose Inhalers (MDI) in Kyrgyzstan" for medical professionals from Karakol town and nearby regions. The heads of regional hospitals, Group of family doctors, Center of Family Medicine take a part on this seminar. The seminar was held with the participation of the Head of the Department of

Pulmonology and Allergology, M. D., Professor T.M. Sooronbaev and Head of hospital of Issyk-Kul oblast J.K. Akunova. At the end of seminar nebulizer and educational publications were disseminated. Altogether, about 43 people took part in this seminar.

- **On 6th of May 2012** at the hotel “Hayat” of Bishkek there was held the press conference for raising awareness of doctors, patients and people about ozone-depleting and ozone-friendly inhalers and about adverse effects of UV – radiation. This press conference was devoted to The World Day against bronchial asthma. Also were discussed questions and actual problems of the project “The Strategy for transition to medical dose inhalers without freon”. MD professor Aisanov Z.R. from Moscow took part in this conference.
- **On 10th of May 2012** at the hospital of Naryn oblast there was seminar “New inhalational technologies for chronic respiratory diseases and protection of the ozone layer”, within the project “Strengthening the institutional capacity for the transition to freon-free Metered Dose Inhalers (MDI) in Kyrgyzstan” for medical professionals from Naryn town and nearby regions. The heads of regional hospitals, Group of family doctors, Center of Family Medicine take a part on this seminar. The seminar was held with the participation of the Head of the Department of Pulmonology and Allergology, M. D., Professor T.M. Sooronbaev and Head of hospital of Naryn oblast A. Berdikojoeva. At the end of seminar nebulizer and educational publications were disseminated. Altogether, about 41 people took part in this seminar.
- **On 25th of May 2012** at the Kyrgyz Agrarian University of Bishkek students conference "Qualitative education: the future in the hands of young people" was held. The conference was organized by department of Technologies for processing of agricultural products and Ozone Center of Kyrgyzstan. At the conference there were a lot of presentations and reports, but the report “Problems of protection of grain and by-products during storage and the introduction of ozone-friendly technologies” of student Baizak k. Rena from 4-course of Technological faculty was one of the best.
- **On 29th of May 2012** at the Naryn town the members of the public association “Kaiberen” carried out the seminar within the project of Ozone center of Kyrgyzstan “Educational-methodological providing measurements of ultraviolet radiation in protected areas of Kyrgyzstan”. The employees of protected areas took part at this seminar. Next day there was organized trip to one of the protected areas “Salkyn-Tor”. There were measured level of ultraviolet radiation of the Sun with using weather station “Digital weather center with creeping line 02977”, measurer of intensity of UV rays “RST 02871” and with RF additional sensor. Altogether, 11 people took part at this action.
- **On 5th of June 2012** at the one of the protected areas “Sary-Chelek” of Jalal-Abad region the members of the public association “Kaiberen” carried out the seminar within the project of Ozone center of Kyrgyzstan “Educational-methodological providing measurements of ultraviolet radiation in protected areas of Kyrgyzstan”. The employees of protected area and theirs family members took part at this seminar. There were measured level of ultraviolet radiation of the Sun with using weather station “Digital weather center with creeping line 02977”, measurer of intensity of UV rays “RST 02871” and with RF additional sensor. Altogether, 20 people took part in this action.
- **From 10th-16th of September 2012** at the Osh technological university (OshTU) named after academician M.M. Adyshev in Osh town was a week devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary. On 14th of September 2012 an ecological action “Protecting Our Atmosphere for Generations to Come” for students was carried out by teachers of the university. The heads of the university and representatives of Ozone center spoke at the action. Students’ reports, essays, posters on the theme

“Save ozone layer” were presented at the action. Within the framework of the action newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins, books about the problems of the ozone layer depletion were disseminated to all students and teachers. Altogether, about 50 students took part in this ecological action. An action was broadcasted on TV (regional TV channel “Bashat”, News, 16.09.2012).

- **From 10th-16th of September 2012** at the Naryn town with the participation of Asian Development Bank, Educational-scientific-production Center for storage of grain and by-products of department of Technologies for processing of agricultural products and Ozone Center of Kyrgyzstan were carried out seminars “Protecting Our Atmosphere for Generations to Come”, “Problem of production and storage of grain crops” and “introduction of MeBr alternatives” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary. More than 40 people from Naryn, Ak-Talin, At-Bashy regions took part in this seminars. At the end of seminars were disseminated to people: newspapers “Asyl Jer” and “Jer Ene”, leaflets, magazines and informational bulletins.
- **On 14th of September 2012** at the professional lyceum number 93 of Bishkek an ecological action “Protecting Our Atmosphere for Generations to Come” was held, devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary for pupils of the lyceum. Teachers of the lyceum and more than 30 pupils took part in this action. The heads of the lyceum and representatives of Ozone center presented information about ozone layer protection at the action. At the end newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins and magazines were disseminated to all pupils and teachers.
- **On 15th of September 2012** an ecological action “Protecting Our Atmosphere for Generations to Come” was organized at Jalalabad state university in Jalalabad town. The heads of the university and representatives of Ozone center and more than 50 students took part in this action. Within the framework of the action a number of activities, such as competitions of poems, pictures as well as presentations of students were carried out. In the final analysis of the competitions students were awarded with valuable souvenirs. At the end of the action newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins and magazines were disseminated to all students and teachers.
- **On 15th of September 2012** an ecological action “Protecting Our Atmosphere for Generations to Come” was held at secondary school 66 of Bishkek. More than 30 pupils of the school and assistants of Ozone center took part in this action. The following informational materials were disseminated to pupils: newspapers “Asyl Jer” and “Jer Ene”, leaflets, magazines and informational bulletins.
- **On 17th of September 2012** at the K.I. Skryabin Kyrgyz National Agrarian University there was an ecological action “Protecting Our Atmosphere for Generations to Come” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary for students. More than 200 teachers and students took part in this action. Within the framework of the action newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins and magazines were disseminated to all students and teachers and was organized an exhibition of posters and pictures.
- **On 17th of September 2012** at the State inspection on environmental and technical safety of Bishkek, Alamudun and Sokuluk region there was seminar “Protecting Our Atmosphere for Generations to Come” took place, devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary for employees. More than 40 employees took part in this action. The following informational materials were

disseminated: newspapers “Asyl Jer” and “Jer Ene”, leaflets, magazines and informational bulletins.

- **On 18th of September 2012** 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 “Protecting Our Atmosphere for Generations to Come” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary for students of the university. During action was organized an exhibition of posters and pictures. Teachers of the institute and more than 120 students took part in this action. The heads of the institute and representatives of Ozone center presented information: “The Montreal Protocol’s 25th anniversary” and “The introduction of the ozone layer protection issues to the educational standards”. Also the round table “Innovation in State educational agency in the field of “Technospheric safety””, where was noted that in 2012 the preservation of the ozone layer signed in the State educational standart. ”Newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins and magazines were disseminated to all students and teachers. The action was broadcasted in mass media: TV channel KTR and EITR (News, 08:30 in Kyrgyz language, 22.09.2012).
- **On 21th of September 2012** teachers, representatives of Ozone center and State agency on environmental protection and forestry carried out an ecological action “Protecting Our Atmosphere for Generations to Come” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary. The action was held at secondary school 52 of Bishkek city. More than 30 teachers from different schools of Bishkek took part in this action. The head of Ozone center and representatives of State agency on environmental protection and forestry presented information: “The Montreal Protocol’s 25th anniversary” and “Integration of Education for sustainable development (ESD)”. At the end newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins, books about the problems of the ozone layer depletion and multimedia educational resource "Green pack" were disseminated to all students and teachers. Then the practical methods to work with pupils on ecological problems were demonstrated with balloons outside the institute symbolizing help in recovery of ozone layer.
- **On 28th of September 2012** an ecological action “Protecting Our Atmosphere for Generations to Come” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary was held at Biospheric territory “Issyk Kul” in Balykchy town, Issyk Kul region. Representatives of Biospheric territory “Issyk Kul” and more than 20 teachers from different schools took part in this action (in all 26 people).The head of Ozone center and representatives of State agency on environmental protection and forestry presented information about the Montreal Protocol’s 25th anniversary and Integration of ESD. At the end newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins, magazines and multimedia educational resource "Green pack" were disseminated to all students and teachers. Then the practical methods to work with pupils on ecological problems were demonstrated.
- **On 3rd of October 2012** at the professional lyceum 5 in Bishkek was seminar for heads and teachers from vocational education schools devoted to program of ESD. During the seminar representatives of NOU presented information about the Montreal Protocol’s 25th anniversary - “Protecting Our Atmosphere for Generations to Come”, “Integration of green economy”, “Integration of ESD” and the training of specialists in ozone friendly technology. More than 70 people took part in this seminar. Within the framework of the seminar

newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins, magazines and multimedia educational resource "Green pack" were disseminated to all teachers. Then the practical methods to work with pupils on ecological problems were demonstrated.

- **On 1st of November 2012** at the Jalal-abad representatives of Ozone center, State agency on environmental protection and forestry and Regional center of expertise on education for sustainable development carried out the seminar “Protecting Our Atmosphere for Generations to Come”. Altogether, 60 people took part at this seminar. There were presented information about “Integration of Education for sustainable development (ESD) in Kyrgyzstan” and “Protection of the ozone layer and climate change”. At the end of the seminar newspapers “Asyl Jer” and “Jer Ene”, leaflets, information bulletins, magazines and multimedia educational resource "Green pack" were disseminated to all teachers. Then the practical methods to work with pupils on ecological problems were demonstrated.
- **On 15th of December 2012** the action “By the footsteps of olden biospheres: travel to geological past of Kyrgyzstan” was held at the State Historical Museum of Kyrgyz Republic. This action was held by the public association “Akmena”, Small Grants Programme of the Global Environment Facility and Ozone Center of Kyrgyzstan and was devoted to the topic of climate change. Pupils from 10 schools and 2 colleges took part at this seminar.

During 2012 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:

- Poster for customs officials «No illegal trade of ODS» on Russian language, 1000 copies;
- Leaflet with quotations from Law of KR «On protection of the Ozone layer» and Code of administrative responsibility on Russian language, 1000 copies;
- Brochure “ Modern refrigerators” on Russian language, 150 copies;
- Book “Handbook for refrigeration specialists” on Russian language, 150 copies;
- Manual for doctors “Modern recommendations on the diagnosis and treatment of allergic rhinitis” on Russian language, 1000 copies;
- Manual for patients, “You can control asthma” on Russian language, 1000 copies;
- “Manual for refrigerant calculation” on Russian language, 300 copies;
- “Manual of refrigeration equipments for sales managers” on Russian language, 200 copies;
- “Manual for customs officers on Ozone depletion substances” on Russian language, 1000 copies;

- Magazine “Achievements in stratospheric ozone protection” on Russian language, 500 copies;
- Magazine “Montreal Protocol on substances that deplete the ozone layer. A success in making” on Russian language, 500 copies;
- Booklet “Twenty questions and answers about the ozone layer” on Kyrgyz and Russian language, 1000 copies;
- Leaflet “Continuing and future challenges the ozone layer protection effort” and “Key achievements of the Montreal Protocol to date” on Kyrgyz and Russian language, 1000 copies;
- Leaflet “Brief primer on the Montreal Protocol” on Kyrgyz and Russian language, 1000 copies;
- Leaflet “Some ideas for stories on Montreal Protocol related matters” on Kyrgyz and Russian language, 1000 copies;
- Postcards “the Montreal Protocol’s 25th anniversary” on Russian language, 200 copies;
- “Informational manual for customs officers and environmental inspectors” on Russian language, 200 copies;
- Brochure “Instructions for customs officers for regulation of ODS” on Russian language, 100 copies.

Also, at the end of 2012 with the Regional Centre of Expertise on environmental education, was released and disseminated multimedia educational resource "Green Pack" in quantity 140 pieces.

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

- 10.09.2012, www.ekois.net, article “The Montreal Protocol’s 25th anniversary”;
- 11.09.2012, Radio Free Europe, www.azattyk.kg , Interview with the head of Ozone center Amanaliev M.
- 16.09.2012, regional TV channel “Bashat”, News, Actions at the Osh technological university (OshTU) named after academician M.M. Adyshev in Osh town devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary;
- 21.09.2012, www.library.kat.kg, article “The Montreal Protocol’s 25th anniversary”;

- 21.09.2012, www.for.kg, article “Protecting Our Atmosphere for Generations to Come”;
- 21.09.2012, www.kabar.kg, article “Protecting Our Atmosphere for Generations to Come”;
- 22.09.2012, TV channel KTR and ElTR, News, Actions at the Institute of mining and mountain technologies named after Asanaliev U devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary;
- Special edition of newspaper “Asyl Jer” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary, 11.09.2012 (2 000 copies);
- Special page of the newspaper “Jer Ene” devoted to 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary, 16.09.2012 (4 000 copies);
- A advertising publication “25 years of the Montreal Protocol” devoted to International day of ozone layer protection was published on September issue of the republican newspaper “Vitrina” (20 000 copies);
- On September the road billboard devoted to the 16th September – International day of ozone layer protection and the Montreal Protocol’s 25th anniversary was prepared and established at the center road of Bishkek city.

On 16th of September 2012 at the Kyrgyz Drama Theatre four representatives of Ozone center of Kyrgyzstan were awarded with Certificate of Honour by Kyrgyz Republic Government and with honorable badges of excellent workers in environmental protections during celebration devoted to 65 anniversary of Forest service of Kyrgyzstan and 25 anniversary of Montreal protocol.

Head of Ozone Center of Kyrgyzstan

M.Amanaliev