



REPORT ON CELEBRATION OF THE WORLD OZONE DAY IN MONGOLIA

09-16 SEPTEMBER 2018



National Ozone Authority
Project management unit for HCFC phase out Management
Plan – HPMP for Mongolia

Ministry of Environment and Tourism, Mongolia
Ulaanbaatar 2018

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WORLD OZONE DAY IN MONGOLIA**

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THEME: KEEP COOL AND CARRY ON

Country	Subject	References, links, pictures
Mongolia	<p data-bbox="297 600 456 632">SUMMARY</p> <p data-bbox="297 646 776 877">The National Ozone Authority (NOA) of Mongolia successfully celebrated the World Ozone Day from 9th to 16th of September by organizing and participating number of events in Ulaanbaatar city and Dornogovi aimag (<i>en. province</i>).</p> <p data-bbox="297 898 776 1192">On May 23, a bill of a renewed regulation of “The Procedure for Licensing the Import, Trade and Use of Ozone Depleting Substances” was submitted to the Government of Mongolia for 5th time in August since 2012 and approved on 5 September 2018 by the Cabinet Meeting of the Government.</p> <p data-bbox="297 1213 776 1717">On September 9 (Sunday), Mongolian Heating, Ventilation, Air-conditioning and Refrigeration Association (HVAC-R Association, previously known as MRA) organized mountain trekking on occasion of the World Ozone Day. More than 50 engineers and technicians from the HVAC-R Association member companies, students of refrigeration engineering of the University of Science and Technology, and staffs of NOA participated in the trekking and celebrated the World Ozone Day together.</p> <p data-bbox="297 1738 776 1896">On September 11 and 12, Prof. Adiyasuren Ts., Director of NOA, gave scientific lectures to college and university students in occasion of the World Ozone Day. He also gave</p>	

interviews to live broadcast of MNB (Mongolian National Broadcasting channel) and Eco TV.

Prof. Adiyasuren Ts. and Mrs. Dulamsuren D., Senior officer of NOA, gave number of interviews to raise public awareness about the world ozone layer, its depletion and use of ozone depleting substances (ODSs). These interviews were published on newspapers, websites and broadcasted on televisions.

On September 15, the NOA participated in an opening ceremony for the “Green Passport” campaign by recommendation of Minister of Environment and Tourism, which is dedicated to enhance knowledge of high school students on environmental issues and what they can do to protect it. The event was organized by a Ministry of Environment and Tourism of Mongolia (MET) at the “Khamar Monastery” in Sainshand soum, Dornogovi aimag.

This year’s World Ozone Day theme was to “Keep Cool and Carry On”, therefore the NOA included background information on success of the Montreal Protocol, its objectives, greenhouse gases and their effect in global warming to our lectures, interviews, and published materials.

The NOA celebrated the World Ozone Day during one week by involving people with wide range of age and educational background, such as high school students, college students, university students, engineers and technicians of refrigeration and air-conditioning servicing field, government officials, and general public.

1. The “Green Passport” campaign by a Ministry of Environment and Tourism of Mongolia

The Ministry of Environment and Tourism of Mongolia is starting the “Green Passport” campaign, initiated by the Minister of Environment and Tourism Mr. Tserenbat N., for high school students (9-11th grade) across the country with the “Let’s change our attitude!” slogan. The campaign’s objectives are that to enhance students’ knowledge on environmental issues such as climate change, energy saving, waste management, etc., and to prepare new generation’s citizens that care for a nature. The event, opening ceremony for campaign’s countryside was organized in September 15 and the NOA Mongolia joined to the event to promote the World Ozone Day and spread knowledge about the world ozone layer, ozone depletion and its negative effects to human health and environment. The main organizer of the campaign is the “Fresh Water Resources and Nature Conservation Center” of the MET.

Total of 261 students and their 14 teachers gathered at the “Khamar Monastery” in Sainshand soum of Dornogovi aimag from the Ulaanbaatar city, Govisumber aimag, and other sides of the Dornogovi aimag to take part in the event. The Minister of Environment and Tourism, Mr. Tserenbat N., Members of the Parliament Mrs. Munkhtsetseg G. and Mr. Delgersaikhan B., Dornogovi aimag’s Governor Mr. Enkhtuvshin T. and other officials attended the event and opened the campaign in countryside.

Aside participating in the opening ceremony, the students toured the area and planted trees beside the Monastery. When explaining the reason for selecting the “Khamar Monastery” as the campaign opening site, the Minister said that the area had forests some 80 years ago, but now barely has any trees. Therefore, he wanted the students and other participants attending the event to plant trees beside the monastery in hope of to create a forest in the Gobi region.



Total of 261 high school students and their 14 teachers took part in an opening ceremony of the “Green Passport” campaign at the “Khamar Monastery”.



The NOA Mongolia gave information to the students on the world ozone layer, ozone depletion, ozone depleting substances and the activities conducted under the Montreal Protocol

The monastery is also one of the biggest tourist attraction sites in Mongolia and he said that having forest with an irrigation system in the site will help creating comfortable environment for tourists and help tourism in the region.

After touring the monastery and the energy center, the students went to the 5 training stations that gave information on environmental issues. The NOA hosted one of the training stations, the “Ozone station”, and gave detailed information on the world ozone layer, ozone depletion, uses of ODSs and its alternatives, and the activities conducted under the Montreal Protocol. The students were divided into 5 groups and the staffs of NOA gave lecture to each group for 20 minutes.

Also, the NOA developed a booklet for students similar to the “Green Passport”, but with “ozone” content and handed to all of the students along with the brochure of “Let’s protect the ozone layer”.

In addition, we distributed the translated OzonAction factsheets, posters and other materials published by the NOA to the teachers for training purpose.



The participants planted trees beside the Khamar Monastery. In the pictures, the students, the Minister of environment and tourism Mr. Tserenbat N., Prof. Adiyasuren Ts. (above), and Mrs. Dulamsuren D. (below) are seen planting trees.

NOA developed a booklet similar to the “Green Passport” and handed to the students along with the brochure.

2. New regulation for import, sale and use of ODSs, its alternatives and equipment containing them

On September 05, the Government of Mongolia has approved the renewed regulation of “The Procedure for Licensing the Import, Trade and Use of Ozone Depleting Substances” which will enter into force from 01 January 2019.

This renewed regulation will replace the currently implemented regulation, which was approved in 1999 by the Government Resolution No.104, and included new substances and provisions that were amended to the Montreal Protocol after 2000.

3. Scientific lectures for college and university students

Prof. Adiyasuren Ts. gave scientific and comprehensive lecture on the theme of “Keep Cool and Carry On” for college and university students on September 11 at the Technology Institute in Ulaanbaatar. About 200 students of the “Food and Technology College” and “Technology Institute” attended to the lecture, who are specializing as a refrigeration technician, cook, pastry chef, etc.

In the lecture, the professor specifically explained about the uses of ODSs and its alternatives, the role of refrigerants in ozone layer depletion and global warming, and importance of the ozone layer as a protective layer for the earth eco-system.



Mrs. Altantsetseg P. (left), Lecturer of the Technology Institute and the Food and Technology College, is introducing the staffs of the NOA and theme of the lecture to the students.



Prof. Adiyasuren Ts. is explaining about the radiations that come from the sun.



Mrs. Tsolmon P (left), ozone officer, and Mrs. Dulamsuren D. (right) are arranging the handouts.



The students are waving the received factsheets to express their support for the activities implemented to protect the ozone layer

On September 12, the professor gave same lecture to the geography major students of Mongolian National University of Education, school of Mathematics and Natural Science. Total of 54 students and teacher took part in the lecture.

After the lecture, one of the students asked whether is it technically possible to recover the depleted ozone layer by means of technology such as building a station in the atmosphere that interferes with the chemical reactions that take place in the upper atmosphere.

For both lectures, the NOA Mongolia disseminated information with the brochure and variety of OzonAction



The students and teachers of the National University of Education.

factsheets (translated into Mongolian) to the students.



Prof. Adiyasuren Ts. is explaining about the three different types of ultraviolet radiation.



The students are photographed holding the poster and 2018 World Ozone Day theme words to express their support.

4. Press conference

The NOA hold a press conference on occasion of the World Ozone Day on September 13. The press conference was held at the “Khaan Hall” of the MET and total of 6 journalists arrived – 4 from television channels (25 TV, Mongolian National Broadcasting channel – MNB, UBS TV, and E TV), 1 from daily newspaper (Daily News), and 1 from website (times.mn).

Mr. Nyamdavaa G., Director of Environment and Natural Resources Management Department of the MET, Prof. Adiyasuren Ts., Mr. Usukhjatgal Ts., President of the Mongolian HVACR Association, Mr. Batdorj Ts., Director of Assessment Centre of TVET Mongolia, were present at the press conference and gave



From left to right: Mr. Usukhjatgal Ts., prof. Adiyasuren Ts., Mr. Nyamdavaa G., Mr. Batdorj Ts.

introduction on their working field and its connection to activities conducted by the NOA. Firstly, prof. Adiyasuren Ts. gave brief introduction on activities of the NOA and theme of this year's World Ozone Day. After that, Mr. Nyamdavaa G. talked mainly about importance of the reduction of greenhouse gases and the amount of greenhouse gas emissions in our country. Following the information regarding environmental aspects, Mr. Usukhjargal Ts. gave information on a refrigeration and air-conditioning sector of Mongolia. He highlighted the issue of certification of RAC servicing technicians and explained why it became important. He also mentioned about the "Train the trainer of R-32 and R-290 based split air-conditioner and heat pump" programme, which was organized on June 05-07 by NOA. This training workshop was an important step to address certification issue of RAC servicing technicians and future co-operation of the NOA and Mongolian HVAC-R Association.

Mr. Batdorj Ts. talked about the results of the stakeholders' meeting which was organized on June 08 with topic of "certification of RAC technicians" and explained the steps of certification in TVET system. He mentioned that the curriculum development work is already included in their work plan and reminded the other stakeholders' role and responsibility in development of the curriculum.

During the press conference, journalists received answers for their interested questions and in the evening, all of the above-mentioned TV channels broadcasted news about the press conference and the World Ozone Day.



The press conference

5. Mountain trekking with RAC technicians

The Mongolian HVAC-R Association organized a mountain trekking to the Bogd Khan mountain in Ulaanbaatar on September 9 to celebrate the World Ozone Day. More than 50 engineers and technicians from the HVAC-R Association member companies, students from the University of Science and Technology – who will become RAC engineers in the future, staffs of the NOA participated in the trekking.

After arriving at one of the Bogd Khan mountain peaks – the “West Shireet” peak, Mr. Usukhjargal Ts. and Mrs. Dulamsuren D. gave speech to the participants. Mrs. Dulamsuren D. gave information on adverse impacts of ozone layer depletion, climate change and what kind of refrigerants we should choose in order to mitigate these impacts and climate change. Mr. Usukhjargal Ts. addressed importance of good practice and competence of technicians who work in RAC servicing sector.

The NOA disseminated the brochure to the participants and presented the “Good Practices in Refrigeration” book (in Mongolian) to the winners of fun competitive games.



The Mongolian HVAC-R Association organized the mountain trekking on celebration of the World Ozone Day





Photo source: Mongolian HVAC-R Association Facebook page
<https://www.facebook.com/pg/mongolianHVACRassociation/posts/>

6. Activities of awareness raising for public

TV Interviews

Prof. Adiyasuren Ts. gave interview at live broadcast in three occasions and with these opportunities, he gave information to general public on the World Ozone Day, the Montreal Protocol, uses and types of ODSs and green house gases.

- MNB (On September 13)
- Eco TV (On September 14)
- MNB (On September 24)



Prof. Adiyasuren Ts. gave interview at live broadcast on Mongolian National Broadcasting (MNB) channel on September 13.

Website and Daily newspaper interviews

On celebration of the World Ozone Day (Press conference news):

Contents and highlights: The following news articles contained broad range of information that starting from the Montreal Protocol, its success, types and uses of ODSs and alternative substances, the Kigali Amendment, the Sustainable Development Goals, to the Mongolian legal environment regarding the substances that are controlled under the Protocol. The articles also covered contents of the Press conference.

Urging everyone to “KEEP COOL AND CARRY ON” on occasion of the world ozone layer protection day

<http://www.mne.mn/?p=6104>

Urging everyone to “Keep Cool and Carry On” on occasion of the world ozone layer protection day	http://gereg.mn/news?id=23961
Responsibility of protecting the ozone layer and climate is not solely of the government’s	http://montsame.mn/mn/read/100187
Urging everyone to “Keep Cool the mother Earth” on the World Ozone Day	http://eagle.mn/r/49748
Urging everyone to “Keep Cool and Carry On” on occasion of the world ozone layer protection day	http://ipost.mn/content/read/1606
Responsibility of protecting the ozone layer and climate is not solely of the government’s	http://ardchilal.mn/42559.html
Do not purchase equipment that contain refrigerants that is being phased out	http://newsmedia.mn/21648
<p><u><i>On opening of the “Green Passport” campaign in countryside:</i></u></p> <p><u><i>Contents and highlights:</i></u> The following news articles mainly covered news about the “Green Passport” campaign, its objectives, and the activities the students have done during the opening ceremony. On their interview, the students talked about what they think of the campaign and the highlights of the opening ceremony. We are happy to note that, most of the students who gave interview said that the most interesting and the most memorable station for them was the “Ozone station” and said that they learnt lot about the ozone layer and ozone depletion. We believe they will distribute the knowledge to their friends and classmates.</p>	
The “GREEN PASSPORT” campaign has started across the country	http://www.mne.mn/?p=6144
The “Green Passport – across Mongolia” campaign has started	https://ikon.mn/n/1dvs
The “Green Passport – across Mongolia” campaign’s opening ceremony has happened	http://www.ecc.gov.mn/index.php/mon/news/181
Green grove will grow beside the “Khamar Monastery”	https://www.youtube.com/watch?v=qYeNS0giDIQ
The “Green Passport – across Mongolia” campaign has started	https://news.mn/r/2003038/
We are continuously publishing latest ozone news and statements on Social Networking Sites of the NOA Mongolia:	Facebook page - https://www.facebook.com/ozonemongolia/ Twitter account (newly created) – https://twitter.com/OzoneMn
The “Nomin Electronics” LLC - enterprise that work with the NOA -	

supported the ozone layer protection activities within the company’s social responsibility by broadcasting the NOA’s short video on their advertisement platform 40 times per day from September 1 to September 20

The “BSB Service” LLC - enterprise that work with the NOA - supported the ozone layer protection activities within the company’s social responsibility by broadcasting the NOA’s short video on their advertisement platform and promoted the day to their customers

7. Published and distributed materials

On occasion of the World Ozone Day, the NOA published the following materials, some of them were printed and disseminated previously and the some were published for the first time, and distributed to targeted audiences.

Stands: Printed two types of stand for dissemination of the general information of World Ozone Day 2018 and The Montreal Protocol’s contribution to the Sustainable Development Goals.

- “Keep Cool and Carry On”
- “The Montreal Protocol’s contribution to some of the Sustainable Development Goals”



Posters: Total of 40 copies with 4 different pictures were printed.

- “Keep Cool and Carry On”





2018 World Ozone Day posters (in Mongolian)

OzonAction factsheets (translated into Mongolian): Three of the following factsheets were published for the first time and the other three were printed in fewer numbers than the others, since there were some from the previous print. Total of 1750 copies of factsheets were printed.

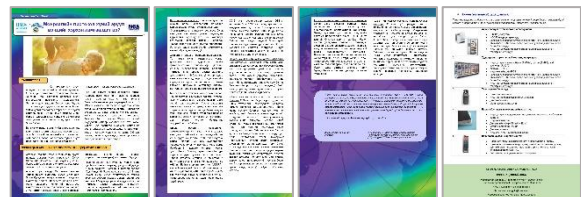
- “Certification of Refrigeration and Air-Conditioning Service Technicians”
- “Energy efficiency in the Refrigeration and Air-Conditioning (RAC) sector” (new)
- “How the Montreal Protocol protects health”
- “The Kigali Amendment to the Montreal Protocol: HFC Phase-down” (new)
- “Safe Use of HCFC Alternatives in Refrigeration and Air-Conditioning: Flammable Refrigerants” (new)
- “Safe Use of HCFC Alternatives in Refrigeration and Air-Conditioning: Higher pressure refrigerants”



Certification of Refrigeration and Air-Conditioning Service Technicians



Energy efficiency in the Refrigeration and Air-Conditioning (RAC) sector



How the Montreal Protocol protects health



The Kigali Amendment to the Montreal Protocol: HFC Phase-down



Safe Use of HCFC Alternatives in Refrigeration and Air-Conditioning: Flammable Refrigerants



Safe Use of HCFC Alternatives in Refrigeration and Air-Conditioning: Higher pressure refrigerants

Brochure: We constantly distribute the ‘Let’s protect the ozone layer’ brochure during the issuance license for ODS and alternatives. This time we printed additional 500 copies for the World Ozone Day.

- ‘Let’s protect the ozone layer’

ХӨРГӨХ БОДИСЫН ТӨРӨЛ

ХӨРГӨХ БОДИС АГУУЛСАН ТОНОГ ТӨХӨВРӨМЖИЙН ТҮГЭЭЭЛЭГ ТӨРӨЛ

ОЗОНЫ ДАВХАРГАА ХАМГААЛЦГАА

AIR CONDITIONER

MODEL	SR2502A-S
POWER SUPPLY	1 PHASE 220V-240V 50Hz
MAX. REFRIG.	2.8 kW
MAX. CURRENT	15 A
MAX. REFRIG. CAPACITY	4.18 m³/d
MAX. PRESSURE (25°C ROOM)	1.00 MPa
MAX. CONDENSING PRESSURE	1.00 MPa
REFRIGERANT	R32
25°C SAT. VAPOR PRESSURE	1.1 MPa
REF. NUMBER	1PKA
REF. WEIGHT	45 kg
REF. VOLUME	6.2 l
GLOBAL W.C.	2 444 03 57 18

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Front side

