

MONTREAL PROTOCOL IMPLEMENTATION ACTIVITIES IN THE R. NORTH MACEDONIA

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International HVAC/R Conference Montenegro, Podgorica, Hotel “Ramada”,
15-16. September 2022 **energija+**

R. NORTH MACEDONIA

- Position: South-Central Balkan
- Population: 1,829,000
- Form of Government: unitary multiparty republic with a unicameral legislature (Sobranie, or Assembly)



R. NORTH MACEDONIA AND THE MONTREAL PROTOCOL

	Adopted on	Entry into force on	Ratification in N. Macedonia
Montreal Protocol	16 September, 1987	1 January, 1989	3 March, 1994
London Amendment	29 June 1990	10 August, 1992	9 November, 1998
Copenhagen Amendment	25 November 1992	14 June, 1994	9 November, 1998
Montreal Amendment	17 September, 1997	10 November, 1999	31 August, 1999
Beijing Amendment	3 December, 1999	25 February, 2002	23 May, 2002
Kigali Amendment	15 October, 2016	1 January, 2019	12 March, 2020

NATIONAL OZONE UNIT OF RSM

- Founded on 1st February 1997, as part of the Ministry of Environment and Physical Planning.
- Main goal: responsible unit for coordinates the overall national activities related to the Montreal Protocol implementation
- Activities:
 1. Harmonization of the national legislation with the Provisions of the Montreal Protocol and the Amendments
 2. Control of import and export of refrigerants and equipment containing refrigerants
 3. Collection and analysis of data, with regards to:
 - ✓ Quantities of imported and exported refrigerants
 - ✓ Recovered and recycled quantities of refrigerants, as well as generated waste
 - ✓ Recorded and labelled equipment
 4. Organization of trainings and events for the relevant stakeholders
 5. Establishment and monitoring of the national refrigerants recovery and recycling scheme
 6. Organization of awareness raising activities for the stakeholders and general public
 7. Coordination of activities on the replacement of the substances/technologies containing/applying substances under the Montreal Protocol
 8. Contribution to international and regional cooperation in the area of ozone layer protection

1. HARMONIZATION OF THE NATIONAL LEGISLATION WITH THE PROVISIONS OF THE MONTREAL PROTOCOL AND THE AMENDMENTS

- Ban on import of ODS (Official Gazette, No. 92/10):
 - CFCs
 - HBFCs
 - Halons
 - Methyl Bromide
 - Carbon tetrachloride
 - Bromochloromethane
- Restriction on import of HCFCs (Official Gazette, No. 111/21)
 - 1 Jan 2013-31 Dec 2020 – quota is reduced 5% annually
 - 1 Jan 2021 - 31 Dec 2027– quota is reduced 6% annually

GOAL: Elimination of HCFCs by 2028
- A legal entity can only perform import and export of the controlled substances [HCFC-22 is strictly restricted, and HFCs can be imported only by prior issued license by the Ministry of Environment and Physical Planning]] and/or equipment containing ozone depleting substances needs to obtain license for import or export of the above mentioned chemicals/products.
- Ban on import/export/usage of non-refillable cylinders
- Importer/exporter is obliged to deliver an annual report of imported/exported quantities of ozone depleting substances
- Obligatory reporting of recovered and recycled quantities of refrigerant
- Obligatory recording and labeling of equipment containing 3 or more kg of refrigerant
- Obligatory control for leakage (given depending on refrigerant quantity)

2. CONTROL OF IMPORT AND EXPORT OF REFRIGERANTS AND EQUIPMENT CONTAINING REFRIGERANTS

- **EXIM is an electronic source, created by the Customs Administration to serve as a platform for application, review and grant of importing and exporting licenses. Namely, 14 categories of licenses are defined:**
 - **E019 – License for export of chemical products**
 - **E025 – License for export of new* and used equipment containing refrigerants**
 - **I019 – License for import of chemical products**
 - **I025 – License for import of new and used equipment containing refrigerants**

* For new equipment no license is needed since July, 2019

Every company fulfilling the criteria stated on their site www.exim.gov.mk can create a profile and apply for the licenses. The procedure involves steps:

1. Company that wants to perform an export or import of chemical substances (including ODS and HFCs) or used equipment containing refrigerants, is obliged to access on the EXIM and apply for permit, by attaching all information needed, such as:
 - Substances/blends
 - Invoice of the exporting/importing company
 - Destination of export/Origin of input
 - Safety data sheet
 - Statement containing the description of the equipment and the refrigerants it uses (in case of import/export) of equipment
 - If it is importing refrigerants, a statement confirming that the refrigerants are stored in re-usable cylinders
 - Proof of payment of administrative taxes
2. After review of the documents and according to the national laws and regulations as well as the Protocols and Amendments that the country is a party to, a decision is made. Respectively, each application holds a status:
 - **Approved**, which is set if all the needed documents are being uploaded and the data given. After the approval, the company has 6 months to use the license.
 - **Rejected**, when the import is either including banned substances/equipment or necessary documents are missing
 - **Add**, where additional documents are required for the company that applies
3. When the import/export has been performed the status of the license is changed to “**used**”.

The screenshot shows the 'EXIM' system interface for license application. The header includes the title 'ЕДИНОВАНЕТСКИ СИСТЕМ ЗА ДОЗВОЛИ ЗА УВОЗ, ИЗВОЗ И ТРАНСИТ НА СТОКИ - EXIM' and the logo of the 'ВЛАДА НА РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА'. The main section is titled 'ПРИКАЗ НА ЛИЦЕНЦНО БАРАЊЕ'. It features a sidebar with a list of menu items: ДОПА, ИЗДАВАЊЕ СЛ, ЛИЦЕНЦА, Внес барање, Изнес барање, Процесирање барање, ТРЕК РЕД, ЛИЦЕНЦА, Трговски лиценца, Изнесај бр. 2, Процеси на тарифа во лиценца, ПРОЦЕСИ НА РЕДАКТИ, Администрациона такса, Други надоместоци, ИЗОБЛИКИ, Сумарен преглед по дозволи, Преглед по барање за дозволи, Проверка регистрација на издавање на дозволи, Сумарен преглед за дозволи, Сумарен преглед по тарифни брое, Историјат на барање за дозволи, СОВЕТУ СВИДЕНТЕРСКА, Внес/Преглед, Изнесај НБР, and Сумарен преглед. The main content area contains a form with fields for 'Избери лиценца' (set to '2019 ИКОСТП - Дозвола за увоз на релне производи на хемиската индустрија'), 'Статус' (set to 'date'), and 'Изберете тип на пребарување по корисник' (set to 'И' and 'date'). There are also date pickers for 'Датум на поднесување' (from 14.08.2022 to 14.08.2022) and a 'Копирај' button. A footer note states 'Напомена: Прибарувањето е ограничено на првите 2000 резултати.' The bottom of the page features the coat of arms of North Macedonia and the text 'Проектот е финансиран од Европската унија на Република Северна Македонија'.

3. COLLECTION AND ANALYSIS OF DATA

1. Quantities of imported and exported refrigerants

Source: obligatory annual reports and from the EXIM platform

	Import (kg)	Export (kg)
HCFC-22	0	0
HFC-32	2920,00	0
HFC-134a	56810,00	0
HFC-152a	297780,00	0
R-404A	45700,00	0
R-407C	5910,00	0
R-410A	16160,00	0
R-507A	680,00	0

2. Recovered and recycled quantities of refrigerants, as well as generated waste

Source: obligatory annual reports from service shops

RRR-2021	CFC	HCFC	HFC	Total
Recovered (kg)	20	908	9977	10905
Recycled (kg)	5	1437	12662,5	14104,5
Generated waste (kg)	5	48	1405,5	1458,5

3. Recorded and labelled equipment

- *1173 pieces of recored/labeled equipment*
- *In process for recording and labeling of another 30 pieces of equipment at the moment*

NOU DATABASE



- Serves as internal platform that stores relevant data and can be accessed only by internal members
- It is continuously improved and new features are being developed at the moment, such as diagrams – to visualize the data and get a better preview of the current situation
- It helps with generating reports for each year and selecting contacts – stakeholders for the events/trainings

Refrigerant and equipment management system - NOU Macedonia

Version 1.0.4



OZONE UNIT MACEDONIA

PROTECT THE OZONE LAYER



Records for Request



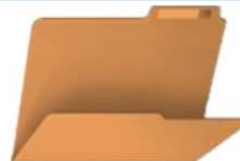
Records for Service shops
and Service technicians



Records for Equipment
owners



Records for recorded
and
Labeled equipment



Records for RRR



Reports

Refrigerant and equipment management system - NOU Macedonia

Version 1.0.4

Records of requests made to the NOU, for recording and labeling equipment

Records of existing Service shops and Service technicians that have certificates

Records of companies – owners of equipment containing refrigerants



OZONE UNIT MACEDONIA

PROTECT THE OZONE LAYER

Records of the equipment containing 3kg or more refrigerant

Records of reported quantities of Recovered, recycled or reclaimed substances



Records for Request



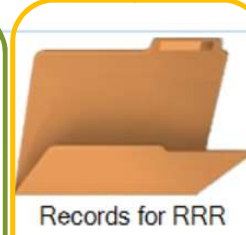
Records for Service shops and Service technicians



Records for Equipment owners



Records for recorded and Labeled equipment



Records for RRR



Reports

This toolbox serves for:

- **Adding new data (city, manufacturer...)**
- **Adding new user for the database**
- **Tools (calculator, Microsoft office programs, Notepad..)**

Reports

REPORT ON THE TYPE OF QUANTITIES OF RECOVERED, RECLAIMED AND RECYCLED REFRIGERANTS

Report form

Reporting year :

Service shop / Natural person : Service shop address :

Person in charge :

Name of recovered refrigerants	Quantity of recovered refrigerants (kg.)	Quantity of reclaimed refrigerants (kg.)	Quantity of recycled refrigerants (kg.)	Quantity of generated waste (kg.)
R12				
R134A				
R22				
R404A				
R407C				
R410A				
R32				
R507A				
R403B				
R452A				
R502				

Date : Place : Person in charge :

Verification number: Verified by :

Searching record

Reporting year: Verification number:

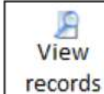
Service shop:



List of records

Year	Service Shop	Verification number
2019	ИТС Искрател...	
2019	Аце Сервис	
2019	Ампер Младе...	
2019	АниTERM Дооел	
2019	Енергија ДОО	
2019	Еуро Клима Д...	
2019	Еурополар Д...	
2019	Фригомонт 2 ...	

Total number of records: 203



Reports



- (1.) Service Shops
- (1.1) Awarded Service Shop
- (2.) Equipment Owners
- (2.1) Labeled and recorded by Owner
- (3.) Recorded and Labeled equipment
by Refrigerants
- (4.) Recorded and Labeled equipment by City
- (5.) RRR Reports



Diagrams

4. ORGANIZATION OF TRAININGS AND EVENTS FOR THE RELEVANT STAKEHOLDERS

- Customs Administration
- Service technicians and Service shops
- Environmental Inspectorate
- Producers of RAC Equipment
- Users of RAC equipment



5. ESTABLISHMENT AND MONITORING OF THE NATIONAL REFRIGERANTS RECOVERY AND RECYCLING SCHEME

- Ensure service shops are working properly
 - Obligatory to have at least one certified service technicians
- Collect annual reports on recovered and recycled quantities, as well as generated waste
- Constantly working to provide suitable recovery and recycling equipment if funds and conditions allow (55 machines were delivered to service shops and 3 to vocational schools, more are planned for the upcoming year)

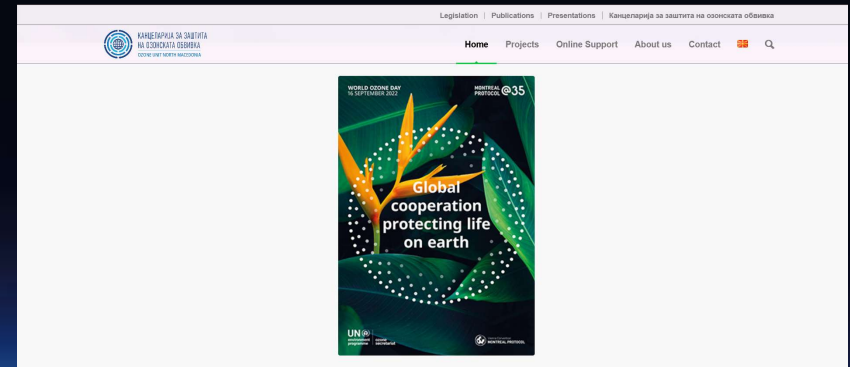
6. ORGANIZATION OF AWARENESS RAISING ACTIVITIES FOR THE STAKEHOLDERS AND GENERAL PUBLIC

- Preparation of posters/leaflets/brochures
- Organization of contest related with Ozone Protection and Montreal Protocol aspects
- Dissemination of relevant documents and information through various channels



NOU WEBSITE

- Link: <http://www.ozoneunit.mk/doma/>
 - Contains information on
 - NOU
 - Events
 - Important documents and Related content
 - Helpdesk



HELP DESK

Log in (existing members/old users or as guests)

Ozon Unit Macedonia | Online Support System

Систем за поддршка - Help Desk

Not secure | ozonunit.mk/helpdesk/

Гостин | Хажава

HELP DESK CENTER

Customer Support Ticket System

Центар за поддршка почеток | Отвори нов тикет | Проверка на статус на тикет

[Добро дојдовте во центарот за поддршка](#)

Со цел исправно да ги насочиме Вашите барања за поддршка и подобро да ве опслужиме, Канцеларијата за заштита на озоносната обвивка отвори систем со тикет поддршка. За секој поднесен Ваш тикет/барање за поддршка се доделува единствен број на тикет кој може да се користи за следење на напредокот на нашите одговори кон Вас преку онлајн платформата. За Ваша информација ние обезбедуваме комплетна архива и историја на сите Ваши барања за поддршка. Од Ваша страна потребно е да користите валидна e-mail адреса при поднесување на Вашиот тикет.

Отвори нов тикет

Ве молиме внесете колку е можно повеќе детали, така ќе можеме најдобро да ви помогнеме. За ажурира на претходно доставен тикет, Ве молиме најавете се.

Отвори нов тикет

Провери статус на тикет

Ние ви обезбедуваме архива и историја на сите ваши сегашни и минати тикети за поддршка вклучувајќи ги вашите барања и наши одговори до Вас..

Провери статус на тикет

Отвори нов тикет - to ask the question


Check the status of existing ticket

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Безбедносни аспекти при работа со алтернативни...
No views • 3 months ago



Извлекување на средствата за ладење
1 view • 3 months ago



Правилна проверка за истекување на разладно...
No views • 3 months ago

7. COORDINATION OF ACTIVITIES ON THE REPLACEMENT OF THE SUBSTANCES/TECHNOLOGIES CONTAINING/APPLYING OZONE DEPLETING SUBSTANCES

Technology (from ODS to non-ODS one) replacement was performed in the biggest ODS consumers in the country.

*The pictures show one of the latest activity on technology transfer (low pressure foam machine) from HCFC-141b to polyol/isocyanate solution for replacement



8. PROVIDE INTERNATIONAL AND REGIONAL COOPERATION IN THE AREA OF OZONE LAYER PROTECTION

- Participation on events/trainings/conferences on international level both online and in-person whenever possible
- Active participation on ECA meetings
- Organization of bilateral meetings to provide help/expertise or share experience



THANK YOU FOR YOUR
ATTENTION