



# Empowering Regional Action: How ECA Network Countries Used Legislative & Policy Options / RAC Sector Action Tables as an Effective Tool to Foster Dialogue and Share Insights to Support Kigali Amendment Implementation

### Introduction:

The Kigali Amendment to the Montreal Protocol requires parties to reduce hydrofluorocarbon (HFC) consumption. To support the countries' efforts, UNEP OzonAction has developed tools to assist countries in implementing effective legislative and policy measures.

### A Proven Framework: Lessons from HCFC Phase-out Initiatives:

In 2010, UNEP OzonAction released a publication focusing on hydrochlorofluorocarbons (HCFCs) - 'HCFC Policy and Legislative Options: A Guide for Developing Countries' (available in English, Russian and other languages). It recommended the adoption of various measures to phasing out the consumption of ozone-depleting substances including HCFCs.

Based on this publication, the Montreal Protocol Network for Europe and Central Asia (ECA network) created an overview table of HCFC legislative and policy options. The objective was to share information between the countries on what legislative and policy measures were already in place or planned to be put in place, to encourage discussions between the countries and the exchange of experiences, and to contribute to the harmonization of measures in the region. It also allowed comparison with measures implemented by European Union countries and helped establish national roadmaps for adopting future legislative and policy measures.



Note: Author was the policy expert Dr. Janusz Kozakiewicz from Poland

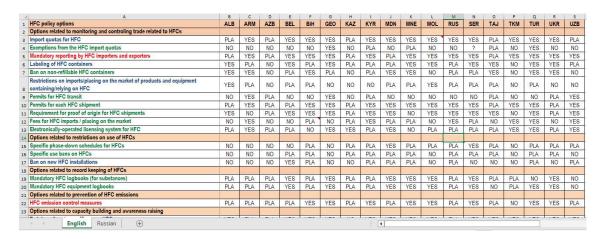
### **Expanding the Scope: Focus on HFCs and the RAC Sector:**

In 2017, OzonAction released a similar publication related to HFCs (available in English, Russian and other languages) entitled 'Legislative and Policy Options to Control Hydrofluorocarbons'.

To facilitate the HFC phase-down, the ECA network created similar overview tables as it had previously created for HCFCs:

- 1. Overview table for HFC legislative and policy options: This tool maps the status of HFC-related measures across countries, providing a clear overview of existing policies.
- 2. Overview table for RAC sector action: This tool focuses on the refrigeration and air-conditioning (RAC) sector, the largest consumer of HFCs, and helps countries address sector-specific challenges and provides inspiration of what actions can support the HFC phase-down.

The tables cover the 11 ECA network countries and several countries of economies in transition (CEITs)



## **Key Features of the Overview Tables of Legislative & Policy and RAC Sector Action**

The overview tables are living documents which can be updated at any time (at least once a year). They cover aspects like:

- Monitoring and controlling trade with HFCs
- ➤ HCFC/HFC use restrictions
- Record keeping
- Capacity building and awareness raising
- Emission control measures
- RAC associations and their activities
- Safety standards
- > Training and certifications on good practices and containment
- > Training and certifications on the safe use of alternatives technologies
- Equipment logbooks and inventories
- Energy efficiency measures
- > Ozone and climate-friendly technologies existing in the country
- ➤ Bans and restrictions for HCFC/HFC products and equipment
- Financial mechanisms
- Refrigerant recovery, recycling, reclamation and destruction
- Enforcement measures.

The status of measures is categorized as follows:

- In place
- > Planned to be put in place
- Not planned.

### **How Countries can use the Overview Tables:**

By offering structured data and actionable insights, the tools inspired ECA countries to identify priorities and gaps, plan effectively, and collaborate regionally. Below are examples of how countries can utilize the tables:

- ➤ **Gap analysis:** The tools enable countries to compare their current legislative and policy measures against regional benchmarks. By identifying gaps, governments can prioritize areas that need immediate attention or improvement, such as trade monitoring and HFC use restrictions.
- Planning roadmaps: Using the tables' systemic and structured data, countries can outline phasedown timelines and specific action plans. These roadmaps can guide national efforts in meeting Kigali Amendment targets and align phasedown schedules with local economic and technological capacities.
- ➤ Initiating regional discussions and collaboration: The tools provide a structured framework for fostering regional dialogues and cross-border collaboration. They enable countries to exchange insights, share experiences, and align strategies. This collaborative approach helps harmonize legislation, adopt best practices, and streamline regional implementation, enhancing the effectiveness of HFC management.
- ➤ Educational aspect: When reviewing the tables, Montreal Protocol Officers can examine possible options, compare them with those implemented by other countries and ask for clarifications on their counterparts and UNEP OzonAction on how to implement such measures and whether there are any lessons learned.

Below are the links to the above-mentioned publication and overview tables (available in English, Russian and other languages) for the countries in the Europe and Central Asia region.

- Legislative and Policy Options to Control Hydrofluorocarbons
- RAC sector action ECA CEIT English Russian see below
- ➤ HFC legislative and policy options ECA CEIT English Russian see below

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RAC sector actions RAC association	ALB	ARM	AZB	BEL	BiH	GEO	KAZ	KIK	MDN	MOL	MNE	RUS	SER	TAJ	TUR
RAC association operational	YES	YES		YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
RAC association congress	NO	NO		YES	NO	YES	YES	YES	NO	NO	NO	YES	YES	NO	YES
RAC association publications	NO	PLA		YES	YES	YES	NO	YES	NO	NO	YES	YES	YES	YES	YES
RAC association website	NO	NO		YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
RAC association involved in HPMP activities	YES	YES		YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
Training on good practices and containment (HCFC, HFC)	YES	YES		YES	YES	YES	NO	YES	YES	PLA	VEC	YES	YES	YES	VEC
Training needs assessment related to HCFC and HFC technologies  Training center with trained trainers and HCFC / HFC equipment	YES	YES		YES	YES	YES	NO YES	YES	PLA	YES	YES PLA	YES	YES	YES	YES YES
Code of good practice for HCFC / HFC technologies	PLA	PLA		PLA	YES	YES	YES	YES	YES	YES	YES	PLA	YES	YES	YES
Training curriculum on good practices and containment	YES	YES		YES	YES	YES	YES	YES	YES	YES	PLA	YES	YES	YES	YES
Training on good practices and containment (mandatory)	NO	NO		YES	YES	PLA	NO	PLA	YES	YES	YES	PLA	YES	PLA	NO
Training on good practices and containment (voluntary)	YES	YES		YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	YES	YES
Certification on good practices and containment (mandatory)	PLA	PLA		PLA	YES	YES	NO	YES	YES	YES	YES	PLA	YES	YES	YES
Certification on good practices and containment (voluntary)	NO	YES		YES	YES	NO	YES	YES	YES	NO	NO	PLA	NO	YES	YES
Training on safe use of alternative technologies (HC, CO2, NH3, HFO)	\/F0	\/F0		\/F0	VE0	VE0.	DI A	DI A	VE0	DI A	VE0	VE0.	\/F0	DI A	DI A
Training needs assessment related to alternative technologies  Training center with trained trainers and alternative equipment	YES PLA	YES YES		YES YES	YES PLA	YES PLA	PLA PLA	PLA PLA	YES PLA	PLA YES	YES PLA	YES YES	YES PLA	PLA PLA	PLA YES
Code of good practice for alternative technologies	PLA	PLA		PLA	PLA	PLA	PLA	PLA	PLA	YES	PLA	PLA	PLA	PLA	YES
Training curriculum on safe use of alternative refrigerants	PLA	YES		YES	PLA	PLA	PLA	PLA	PLA	PLA	PLA	YES	PLA	PLA	YES
Training on safe use of alternative refrigerants (madatory)	NO	NO		PLA	PLA	PLA	PLA	PLA	YES	PLA	PLA	PLA	PLA	PLA	NO
Training on safe use of alternative refrigerants (voluntary)	PLA	YES		YES	YES	PLA	PLA	NO	PLA	YES	PLA	YES	YES	NO	YES
Certification on safe use of alternative refrigerants (mandatory)	PLA	PLA		PLA	PLA	PLA	PLA	PLA	PLA	NO	PLA	PLA	PLA	PLA	NO
Certification on safe use of alternative refrigerants (voluntary)	NO	YES		YES	PLA	NO	PLA	PLA	PLA	NO	PLA	YES	?	PLA	YES
Safety standards for alternative technologies	_						_	_			_			-	
Safety standards for alternative refrigerants (mandatory)	PLA	NO		YES	PLA	NO	PLA	PLA	PLA	NO	PLA	PLA	NO	PLA	NO
Safety standards for alternative refrigerants (voluntary)	YES	YES		YES	YES	YES	PLA	YES	YES	YES	YES	YES	YES	YES	NO
Equipment logbooks and inventories  HCFC equipent logbooks and inventories	PLA	YES		YES	PLA	YES	PLA	YES	YES	YES	YES	PLA	YES	NO	NO
HFC equipent logbooks and inventories	PLA	PLA		YES	PLA	YES	PLA	PLA	YES	YES	YES	PLA	YES	PLA	YES
Energy-efficiency measures	1 27 (	1 27 (		120	1 27 (	120	1 27 (	1 27 (	120	120	120	1 27	120	7 27 (	120
Energy-efficiency legislation	YES	YES		YES	YES	NO	NO	PLA	YES	YES	YES	YES	YES	PLA	YES
Energy-efficiency labelling for equipment	YES	PLA		YES	YES	YES	NO	PLA	YES	YES	YES	YES	YES	PLA	YES
Minimum energy-efficiency performance standards (MEPS)	PLA	NO		YES	PLA	PLA	NO	PLA	PLA	NO	YES	PLA	YES	PLA	YES
Methodologies for Energy Efficiency Assessment or benchmarking of	PLA	NO		YES	YES	PLA	NO	PLA	PLA		2	YES	2	PLA	NO
existing equipment in the country and equipment being imported  Ozone- and climate-friendly technologies, existing in the country														PLA	
(supermarkets, breweries, hospitals etc)	YES	YES		YES	YES	YES	YES	PLA	YES	YES	YES	YES	?		YES
Availability of modern ammonia RACHP systems in your country	NO	YES		YES	YES	YES	YES	PLA	YES		YES	YES	YES	PLA	YES
Availability of modern hydrocarbon RACHP systems in your country	NO	YES		YES	YES	YES	YES	PLA	YES		YES	YES	YES	PLA	NO
Availability of modern CO2 RACHP systems in your country	NO	YES		YES	YES	NO	YES	PLA	YES		YES	YES	YES	PLA	YES
Approved pilot or demonstration projects to promote alternative technologies	NO	NO		YES	NO	YES	NO	PLA	PLA	YES	PLA	YES	PLA	PLA	YES
Import bans or restrictions for HCFC products / equipment	YES	YES		PLA	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
Import bans or restrictions for HFC products / equipment	PLA	PLA		PLA	PLA	NO	YES	PLA	PLA	YES	PLA	PLA	PLA	PLA	NO
	\/50	D. A		\/=0	\/F0		\/F0		7.0	\/F0	\/50	VE0	D. 4	NO	YES
Placing on the market bans or restrictions for HCFC products / equipment	YES	PLA		YES	YES	NO	YES	NO	YES	YES	YES	YES	PLA	NO	1
Placing on the market bans or restrictions for HFC products / equipment	PLA	NO		YES	PLA	NO	PLA	NO	PLA	YES	PLA	PLA	PLA	NO	PLA
Financial mechanisms (incentives, taxes or tax exemptions)	NO	YES		PLA	PLA	NO	NO	PLA	YES	NO	NO	YES	YES	PLA	NO
Environmental fund (to finance incentives, destruction etc.)	NO	NO		NO	PLA	PLA	NO	NO	NO	NO	YES	NO	PLA	NO	YES
Refrigerant recovery, recycling, reclamation and destruction  Ban on ODS venting. Mandatory ODS recovery	YES	PLA		YES	YES	YES	YES	YES	YES		YES	PLA	YES	YES	YES
Ban on HFC venting. Mandatory HFC recovery	PLA	PLA		YES	PLA	YES	PLA	PLA	YES		YES	PLA	YES	PLA	YES
Mandatory ODS recycling / reclaim or destruction	YES	PLA		YES	YES	YES	NO	PLA	YES		PLA	YES	YES	PLA	YES
Mandatory HFC recycling / reclaim or destruction	PLA	PLA		YES	YES	YES	PLA	PLA	YES		PLA	YES	YES	PLA	YES
ODS/HFCs inventory in the country	PLA	YES		YES	PLA	YES	PLA	PLA	NO		YES	PLA	NO	PLA	PLA
Legislation allowing the import/export/transit of controlled substances for	VEC	NO		VEC	VEC	VE0	VEC	D. 4	YES		D. 4	VEC	YES	D/ A	PLA
destruction or reclaim  Refrigerant recovery and recycling center operational	YES NO	NO		YES YES	YES YES	YES YES	YES NO	PLA YES	NO	NO	PLA NO	YES YES	NO	PLA YES	PLA
Refrigerant recovery and recycling center operational  Existing reclaim centers for ODS / HFCs in the country	NO	PLA		YES	NO	YES	NO	YES	NO	INU	NO	YES	NO	YES	YES
Existing destruction facilities for ODS / HFCs in the country	NO	NO		PLA	NO	NO	NO	NO	NO		NO	PLA	NO	NO	YES
Existing facilities which could be upgraded to destruction facilities for ODS /															
HFCs (for example, use of existing cement kilns, municipal solid waste	YES	YES		YES	PLA	YES	YES	NO	YES		NO	YES	?	NO	YES
incinerators, rotary kiln Incinerators) Enforcement	TES			TES	PLA	IES	TES	NO			NO	TES		NO	
ODS/HFC online trading monitoring within the country	PLA	NO		YES	NO	YES	NO	PLA	PLA		NO	PLA	NO	PLA	NO
Inspections for mandatory RACHP equipment checking control	PLA	PLA		YES	PLA	YES	NO	PLA	YES		PLA	PLA	PLA	PLA	YES
Market surveillance through the analysis of reported data (logbooks),		NO			NO		NIC	D. 4				DI A	^	D/ A	NO
inspections, monitoring of Internet offers, consumer hotline etc.	PLA PLA	NO NO		YES YES	NO	PLA YES	NO	PLA YES	YES NO		NO	PLA	?	PLA YES	PLA
Monitoring of ODS/HFCs reclaim centers  Monitoring of ODS/HFCs destruction facilities	PLA	NO		PLA	NO NO	NO	NO NO	NO	NO NO		NO NO	PLA PLA	NO NO	NO NO	YES
Plans for ODS/HFCs recovery, recycling, reclaim, reuse, disposal /	1 LA	110			140	110	INO	140	140		140	1 124	140	140	
destruction	PLA	PLA		YES	PLA	PLA	PLA	PLA	YES		PLA	PLA	YES	PLA	YES
Other RAC sector actions															
Ban of non-refillable refrigerant cylinders	YES	YES		YES	YES	PLA	NO	PLA	YES	NO	YES	YES	PLA	PLA	YES
Labeling of refrigerant cylinders	YES	PLA		YES	PLA	YES	PLA	PLA	NO	YES	YES	PLA	YES	YES	YES
Emission control measures (ban on venting, leakage detection)	PLA	YES		YES	YES	YES	NO	YES	YES	YES	YES	PLA	YES	PLA HCFC -	YES
														YES, HFC -	YES
Ban on new installations (HCFC, HFC)	PLA	PLA		YES	PLA	NO	PLA	PLA	PLA	YES	YES	PLA	NO	PLA	\/=c
Use of UNEP OzonAction training materials and tools  Date of last up-date	YES 9.24	YES		YES <b>9.24</b>	YES <b>9.24</b>	YES <b>9.24</b>	NO <b>10.24</b>	YES 9.24	YES	YES 9.24	YES 9.24	YES <b>10.24</b>	YES	YES <b>12.24</b>	YES 9.24
YES = Implemented	9.24	10.24		9.24	9.24	9.24	10.24	9.24	10.24	9.24	9.24	10.24	10.24	12.24	9.24

YES = Implemented
PLA = Planned to be implemented
NO = Not planned to be implemented
? = Unknown

### Table: December 2024 HFC Legislative and Policy Options ECA-CEIT

HFC policy options	ALB	ARM	AZB	BEL	BiH	GEO	KAZ	KYR	MDN	MNE	MOL	RUS	SER	TAJ	TKM	TUR	UKR	UZB
Options related to monitoring and controling trade related to HFCs																		
Import quotas for HFC	PLA	YES	PLA	YES	YES	YES	PLA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	PLA
Exemptions from the HFC import quotas	NO	NO	NO	NO	NO	YES	NO	PLA	NO	PLA	NO	NO	?	NO	NO	YES	NO	NO
Mandatory reporting by HFC importers and exporters	PLA	YES	PLA	YES	YES	YES	PLA	YES	PLA	YES	YES	YES	YES	PLA	YES	YES	YES	YES
Labeling of HFC containers	YES	PLA	NO	YES	PLA	YES	PLA	PLA	PLA	YES	YES	PLA	YES	YES	NO	YES	YES	PLA
Ban on non-refillable HFC containers	YES	YES	NO	PLA	YES	PLA	NO	PLA	YES	YES	NO	PLA	PLA	PLA	NO	YES	YES	NO
Restrictions on imports/placing on the market of products and equipment																PLA		
containing/relying on HFC	YES	PLA	NO	PLA	PLA	NO	NO	NO	PLA	PLA	YES	PLA	PLA	PLA	NO	FLA	NO	NO
Permits for HFC transit	NO	YES	PLA	NO	NO	YES	NO	PLA	NO	NO	NO	NO	NO	PLA	NO	NO	PLA	YES
Permits for each HFC shipment	PLA	YES	PLA	PLA	YES	YES	PLA	YES	YES	YES	YES	YES	YES	YES	YES	YES	PLA	YES
Requirement for proof of origin for HFC shipments	YES	NO	PLA	YES	YES	YES	PLA	YES	YES	NO	YES	YES	YES	YES	NO	YES	PLA	YES
Fees for HFC imports / placing on the market	NO	YES	NO	NO	PLA	NO	PLA	YES	PLA	PLA	NO	YES	PLA	PLA	YES	YES	NO	YES
Electronically-operated licensing system for HFC	PLA	YES	PLA	PLA	NO	YES	YES	PLA	YES	NO	PLA	PLA	PLA	PLA	YES	YES	PLA	YES
Options related to restrictions on use of HFCs																		
Specific phase-down schedules for HFCs	NO	NO	NO	NO	PLA	NO	PLA	PLA	YES	PLA	PLA	PLA	YES	PLA	NO	PLA	PLA	PLA
Specific use bans on HFCs	NO	NO	NO	PLA	PLA	NO	PLA	PLA	PLA	PLA	NO	PLA	PLA	PLA	NO	PLA	PLA	NO
Ban on new HFC installations	NO	NO	NO	YES	PLA	NO	NO	PLA	PLA	PLA	NO	PLA	NO	PLA	NO	PLA	NO	PLA
Options related to record keeping of HFCs																		
Mandatory HFC logbooks (for substances)	PLA	PLA	PLA	YES	PLA	YES	PLA	PLA	YES	YES	YES	PLA	YES	PLA	PLA	NO	YES	NO
Mandatory HFC equipment logbooks	PLA	PLA	PLA	YES	PLA	YES	PLA	PLA	YES	YES	YES	PLA	YES	NO	PLA	YES	YES	NO
Options related to prevention of HFC emissions																		
HFC emission control measures	PLA	PLA	PLA	PLA	YES	YES	PLA	YES	PLA	YES	YES	PLA	YES	PLA	NO	YES	YES	PLA
Options related to capacity building and awareness raising																		
Training of customs officers on HFCs	YES	PLA	PLA	YES	YES	YES	NO	YES	YES	YES	YES	PLA	YES	YES	YES	YES	YES	YES
Training of environmental inspectors on HFCs	PLA	PLA	PLA	YES	YES	YES	PLA	YES	YES	YES	YES	PLA	YES	YES	YES	PLA	YES	YES
Training and certification of refrigeration technicians	PLA	PLA	PLA	YES	YES	YES	PLA	YES	PLA	YES	YES	PLA	YES	YES	PLA	YES	YES	YES
																DI A		
Training of refrigeration technicians on the safe use of alternative refrigerants	YES	PLA	PLA	YES	YES	PLA	PLA	YES	PLA	PLA	YES	PLA	YES	YES	PLA	PLA	YES	YES
Awareness raising of stakeholders	YES	YES	PLA	YES	YES	YES	PLA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Additional options																		
Import and export licensing system for ODS and HFCs	YES	YES	PLA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	PLA
iPIC including ODS and HFCs	YES	YES	PLA	PLA	YES	YES	PLA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Date of last update	9.24	10.24	10.2	9.24	9.24	9.24	10.24	9.24	11.24	9.24	9.24	10.24	9.24	12.24	9.24	9.24	2.22	9.19
YES = Implemented	plemented Red = Recommended for implementation before ratification of the Kigali amendment																	
PLA = Planned to be implemented	Blue = Recommended for implementation before freeze date or at least before the date of the first phase down step																	
NO = Not planned to be implemented	Green = Recommended for future implementation																	
? = Unknown	2.3011																	
. •																		