



MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT
DEPARTMENT OF CLIMATE CHANGE

MANAGEMENT OF CONTROLLED SUBSTANCES UNDER MONTREAL PROTOCOL - VIET NAM -

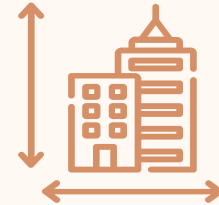
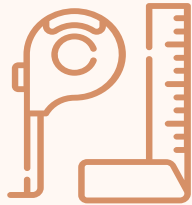
NGUYEN Dang Thu Cuc (Ms) | *National Ozone Coordinator,
Department of Climate Change, Ministry of Natural Resources and Environment*

Bangkok, July 07, 2023

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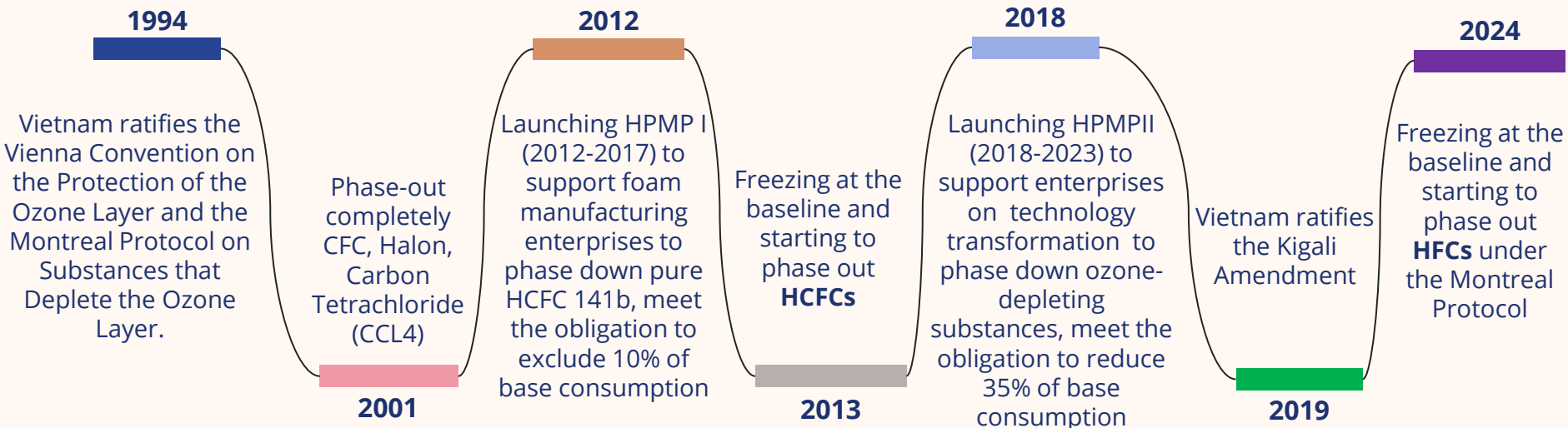




01

MANAGEMENT OF CONTROLLED SUBSTANCES IN VIET NAM

MONTREAL PROTOCOL IMPLEMENTATION IN VIETNAM



☐ Control the import quota of HCFCs according to the roadmap, ending the import of HCFCs completely by **2040**

☐ Freezing consumption of HFCs in the period **2024-2029** and gradual phase-down of 80% ↓ of the HFCs consumption by **2045**

LAW ON ENVIRONMENT PROTECTION 2020

Law on Environmental Protection

dated November 17, 2020

- **Article 92: Ozone layer protection**

Decree 06/2022/ND-CP of the Government dated January 7, 2022 on greenhouse gas emissions reduction and ozone layer protection.

Decree 45/2022/ND-CP of the Government dated July 7, 2022 on sanctioning of administrative violations in environmental protection



HCFC: started 2022;
HFC: to be started from 2024.

Circular 01/2022/TT-BTNMT on reduction GHG emission reduction and ozone layer protection and details of some articles of the Law on Environmental Protection.

List of Substances

Registration and Reporting requirements

Article 24
Decree
No. 06

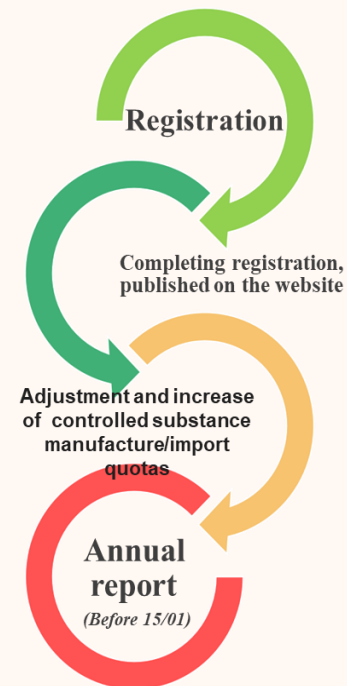
1 Organizations that manufacture controlled substances

2 Organizations that export or import controlled substances

3 Organizations that manufacture or import equipment and products which contain or are manufactured from the controlled substances

4 Organizations possessing equipment containing controlled substances: air conditioners with a nominal cooling capacity greater than 26.5 kW (90,000 BTU/h) and with a total nominal cooling capacity greater than 586 kW (2,000,000 BTU/h); industrial refrigeration equipment with electric power greater than 40 kW

5 Organizations providing controlled substance collection, reuse, recycling and disposal services



MONRE published 127 organizations completing registration procedures as of March 02, 2023

NATIONAL SINGLE WINDOW (NSW)

Registration
Before 31/12/2022

30 working days

Quota Allocation
A notification of quotas allocation issued by the climate change authority

Requirements of allocation, adjustment and increase of quotas submit a request application before July 10 every year.

30 working days

The decisions on allocation, adjustment or increase of import quotas. Organizations shall submit the following documents to the customs authorities for the monitoring of quota deduction:

- An notification by the climate change authority
- Other documents according to the law on customs

10 working days

Completed Registration Information is published on the climate change authority website

website:
dichvucong1.monre.gov.vn

Annual Report on use of the controlled substances before January 15 of each year

DCC
Department of Climate Change



CÔNG DỊCH VỤ CÔNG QUỐC GIA
Kết nối, cung cấp thông tin và dịch vụ công mọi lúc, mọi nơi

Đăng ký

Vui lòng chọn phương thức đăng ký

- Công dân
 Doanh nghiệp
 Cơ quan nhà nước

Xác minh mức độ trung bình (IAL2)



Thuế bảo di động



Bảo hiểm xã hội



Bộ Công An



Bưu điện Việt Nam

** Tài khoản cung cấp từ "Bưu điện Việt Nam" không dành cho CBCCVC cơ quan nhà nước*

Xác minh mức độ cao (IAL3)



USB ký số



SIM ký số



VNPT SmartCA

Management Roadmap



According to the Government's Decree No. 06/2022/ND-CP:

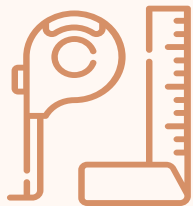
No.	Substances	Roadmap for management
1	Methyl bromide	Imported only for the purpose of disinfection and quarantine of export goods
2	HCFC	<ul style="list-style-type: none"> - 01/01/2022 – 31/12/2024: no exceed 65% of the base consumption; (quota 2.600 tons); - 01/01/2025 – 31/12/2029: no exceed 32,5% of the base consumption; (quota 1,300 tons); - 01/01/2030 – 31/12/2039: the annual average does not exceed 2.5% of the base consumption; (quota 100 tons average per year); - 01/01/2040: import and export ban.
3	HFC	<ul style="list-style-type: none"> - 01/01/2024 – 31/12/2028: no exceed the base consumption and production; - 01/01/2029 – 31/12/2034: no exceed 90% of the base consumption and production; - 01/01/2035 – 31/12/2039: no exceed 70% of the base consumption and production; - 01/01/2040 – 31/12/2044: no exceed 50% of the base consumption and production; - 01/01/2045: no exceed 20% of the base consumption and production

MONRE shall notify the baseline production and consumption of HFCs before 31 Dec 2023

Phased out substances



Prohibited acts specified in Clause 11 Article 6 of the Law on Environmental Protection including:



- ❖ Manufacturing, importing, temporarily importing, re-exporting and selling substances: **Bromochloromethane, CTC, CFC, Halon, HBFC, Methyl chloroform, HCFC 141b;**
- ❖ Manufacturing, importing, temporarily importing, re-exporting and selling **equipment containing or manufactured from substances:** Bromochloromethane, CTC, CFC, Halon, HBFC, Methyl chloroform, HCFC 141b;
- ❖ Manufacturing, importing and selling products and equipment containing or manufactured from prohibited controlled substances;
- ❖ Manufacturing, importing and selling controlled substances is prohibited under the regulations of the Ministry of Natural Resources and Environment;



Collection, reuse, reclamation and destruction of controlled substances (Article 28, Decree 06/2022/NĐ-CP)

Organizations own equipment containing controlled substances:

- ❖ Organizations that manufacture or import equipment and products which contain or are manufactured from the controlled substances;
- ❖ Organizations possessing equipment containing controlled substances: air conditioners with a nominal cooling capacity greater than 26.5 kW (90,000 BTU/h) and with a total nominal cooling capacity greater than 586 kW (2,000,000 BTU/h);
- ❖ Organizations possessing industrial refrigeration equipment with electric power greater than 40 kW;
- ❖ Principle:
 - Collection is compulsory as soon as they are no longer used in the equipment/products from **January 01, 2024**;
 - Recommended to recycle or reuse the controlled substances after collecting them;
 - Destruction is required if can not recycled or reused (following management of harmful wastes ;
 - Report annually on the usage of controlled substances **before January 15 each year.**

Technicians requirements

Article 28.4 Decree 06/2022/NĐ-CP

- ❖ The technicians must have suitable diplomas.
- ❖ The technician needs certificates of completing training courses on collection and disposal of the controlled substances under the programs developed by the Ministry of Labor, Invalids and Social Affairs in cooperation with the MONRE in formulating.

Article 17 Circular 01/2022/TT-BTNMT

Technicians in charge of installing, operating, maintaining and repairing equipment containing controlled substances as prescribed are required to possess vocational secondary qualification or higher in one of the following majors:

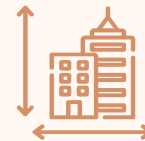
- | | |
|---|--|
| <input type="checkbox"/> Thermal engineering technology; | <input type="checkbox"/> Thermal equipment maintenance & repair; |
| <input type="checkbox"/> Electronics and building energy engineering; | <input type="checkbox"/> Refrigeration & air conditioning techniques; |
| <input type="checkbox"/> Mechanical engineering, heating & air conditioning | <input type="checkbox"/> Operation & repair of refrigeration equipment; |
| <input type="checkbox"/> Refrigeration equipment installation; | <input type="checkbox"/> Aquatic mechanical & electrical refrigeration engineering |

List of controlled substances



Article 15 and Annex III Circular 01/2022/TT-BTNMT:

- ❖ List of ozone depleting substances banned from production, import and use
- ❖ List of controlled ozone depleting substances (Methyl Bromide and HCFCs)
- ❖ List of controlled greenhouse gases (HFCs and compound HFCs)
- ❖ List of products, equipment and goods containing controlled ozone depleting substances



Policy and legal documents in preparation

Feb – Jun, 2023:

1. National plan for management of controlled substances (HPMP III, KIPI in preparation)
2. Technical regulations on collection, transport, recycling, reclamation and destruction of controlled substances

July – August

Consultation in progress

End August

Submission of Technical Regulations (*adoption by 31 Oct 2023*)

September

Submission of National Plan of Management of Controlled Substances

Nov – Dec

Preparation for HFC phasedown roadmap starts 2024, including quota allocation.



QUY CHUẨN KỸ THUẬT QUỐC GIA
(QCVN)



Policy and legal documents in preparation (2)



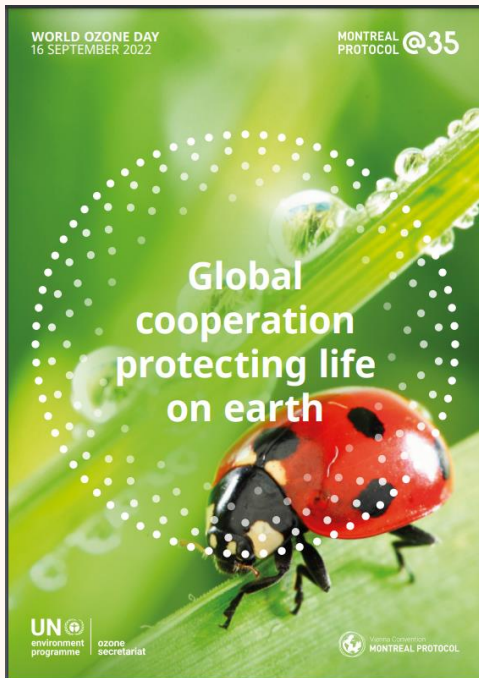
National plan for management of controlled substances

- ❖ Assessment of current usage by refrigerants and sector, consumption and projection;
- ❖ Develop different scenarios and interventions needed to ensure compliance;
- ❖ Measures for management (registration, monitoring, reporting); phasing out and phasing down of the controlled ODSs and GHGs;
- ❖ Responsibilities of organizations, individuals and relevant units in implementing the plan.

National technical regulations

On recovery, transport, storage, recycle, reclaim and destruction of controlled substances (i.e., refrigerants) in refrigeration and air conditioning equipment (RAC equipment) following the list of the refrigerants is shown in Circular 01/2022/TT-BTNMT:

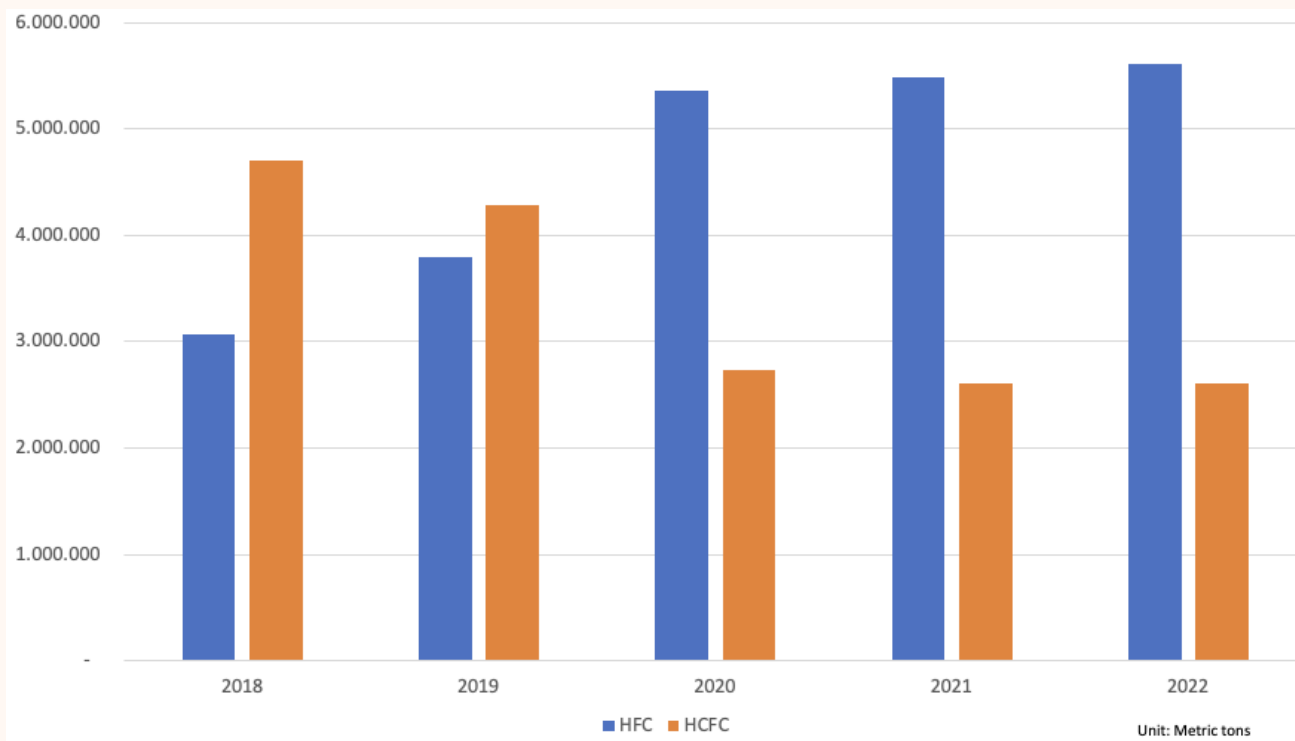
- ❖ Collecting, transport, storage of refrigerants
- ❖ Identification of refrigerants after recovery
- ❖ Recycling of refrigerants
- ❖ Reclaiming of refrigerants
- ❖ Handling of controlled substances.



02

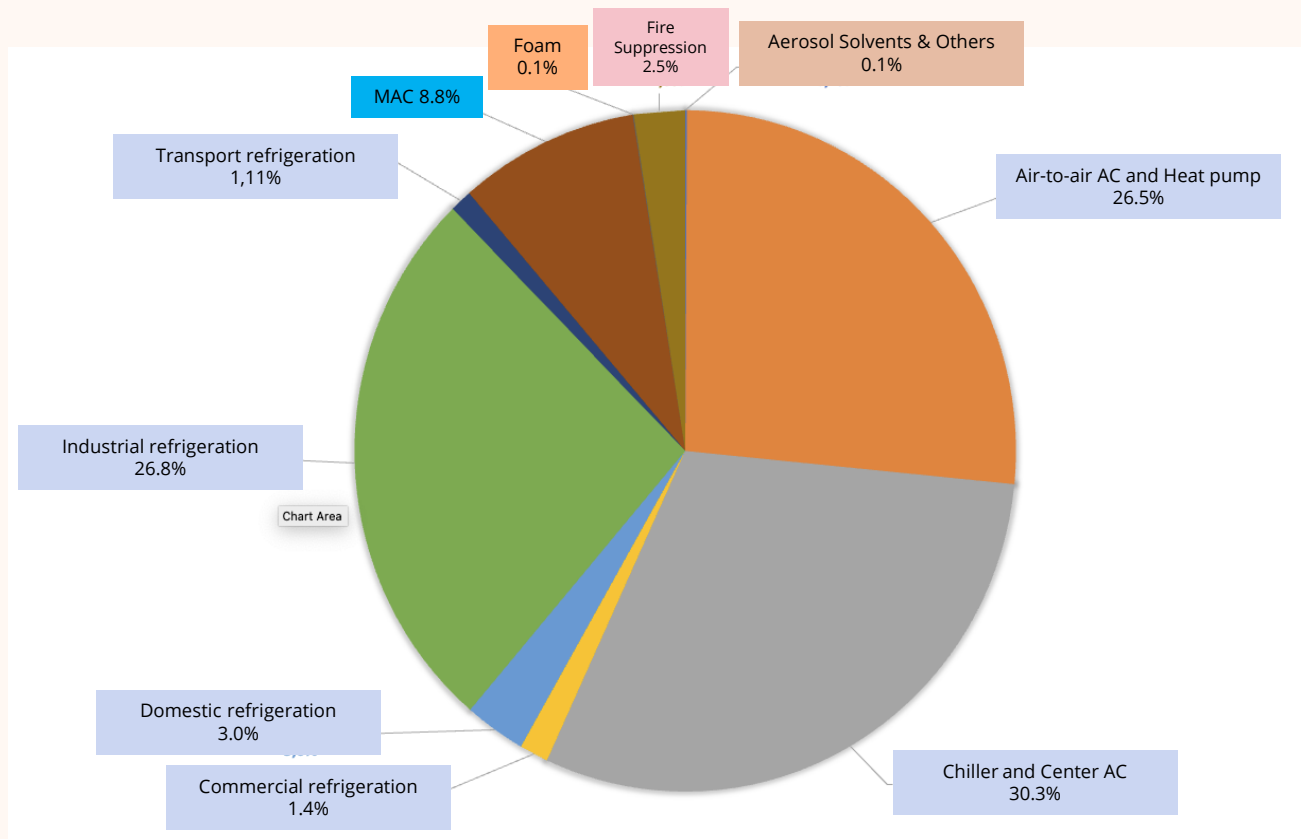
ON GOING ACTIVITIES

OVERALL HCFC & HFC CONSUMPTION FROM 2018 – 2022



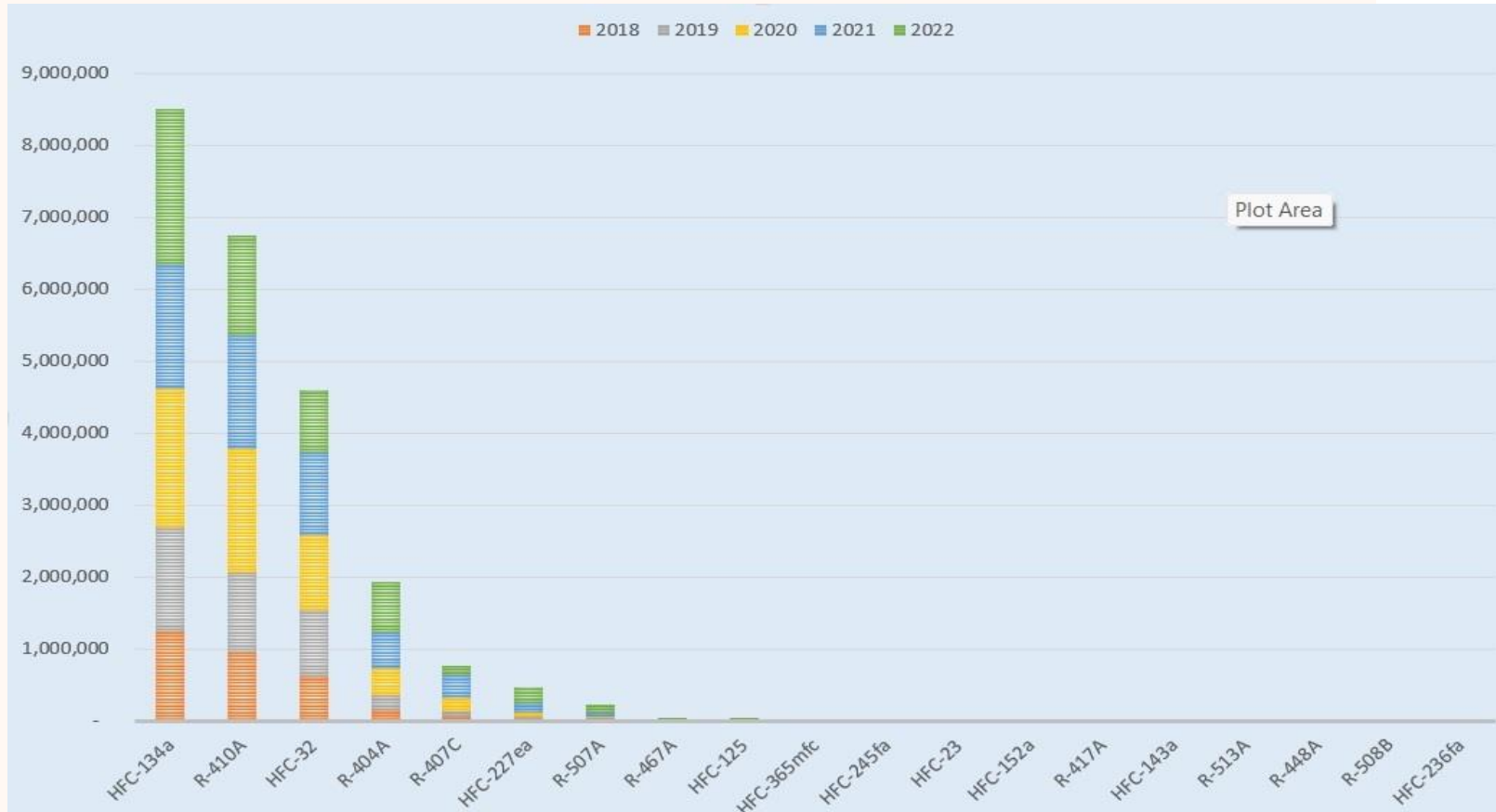
Unit: Metric tons

OVERALL HFC CONSUMPTION by sectors



Share of HFC average consumption (2020-2022) by sectors

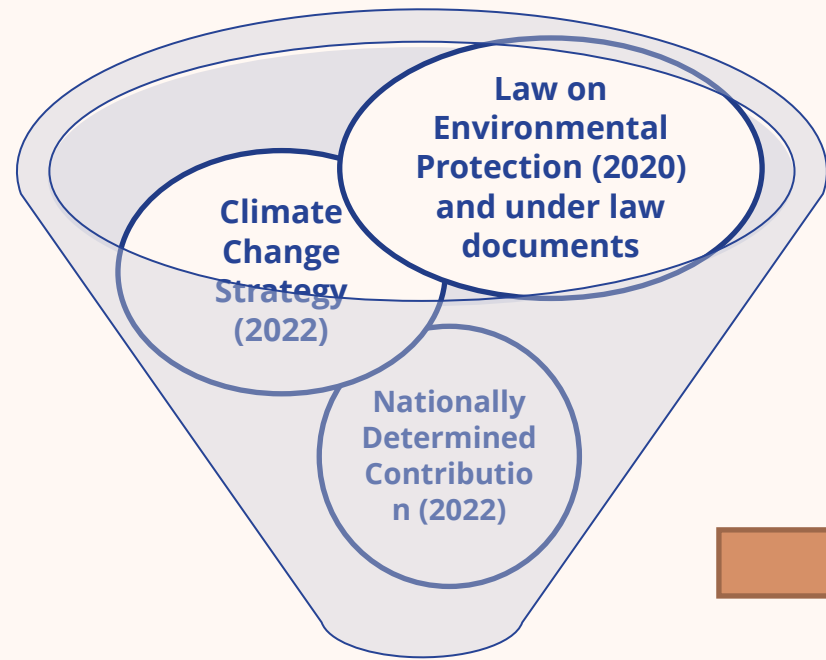
HFC consumption by substances (MT) from 2018-2022



Major findings



- Interagency coordination is crucial (NOU, Customs, TVET, Energy Efficiency, Standards...);
- Policy and legal framework strengthen is necessary (licensing system, quota allocation, monitoring and reporting requirements, penalties);
- Capacity building for skill workers, technicians;
- Availability of alternative technologies and industry communication beforehand to ensure smooth transition and cooperation.
- Refrigerant lifecycle management shall be integrated with other national policies (*extended producer's responsibility, solid/hazardous waste management, incentives...*)



Net zero target by 2050

COP26 implementation plan;
Action plan on methane emission reduction;
Emerging issues in cooling sector.

- Inventory of HFC banks
- MRV of GHG emission
- Leakage reduction
- Energy efficiency of cooling appliances
- Passive cooling
- End of life management (substances, equipment)
- Linkage to carbon credit and other incentives.

Other climate change commitments and national policies, legal framework

THANK YOU FOR YOUR ATTENTION!

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<https://www.facebook.com/vietnamozone>

