



# Implementing the EU Fgas Regulation

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**DG CLIMA**  
**European Commission**

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# Phase down quota system

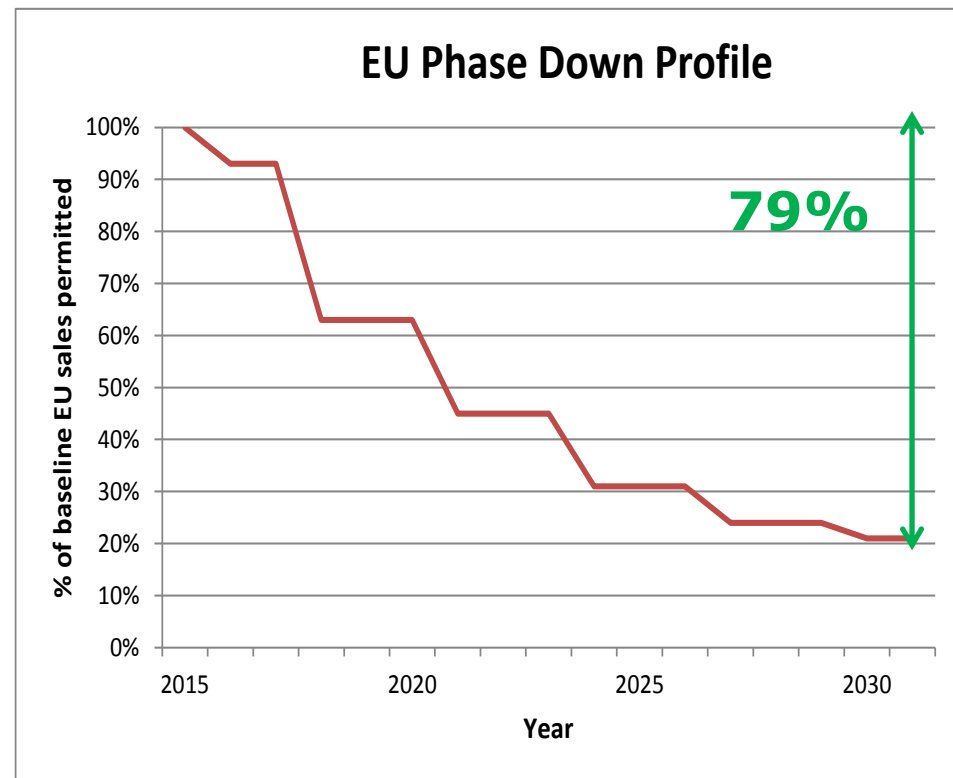
- Companies importing or producing HFC (bulk!) get an HFC quota every year (in CO<sub>2</sub>eq)
- A company can only place quantities of HFCs on the EU market up to their quota limit
- For 2015, 79 incumbent companies and 334 new entrants got a quota

# Phase-down based on climate impact

Average GWP must fall from 2000 to 400 by 2030 (assuming identical quantities)



**Manufactures and buyers of RAC avoiding HFCs/using low GWP solutions are not/less impacted (prices)**



# Pre-charged HFC equipment

- From 2017, pre-charged HFC equipment can only be placed on the market, if the HFC charge is covered by quota! How?
  - *Filling in the EU or outside the EU, with HFCs **bought in the EU**, or*
  - *authorisation to use quota from a quota holder (producer/importer of bulk HFCs) for HFCs **bought outside the EU***
- *Reporting on HFCs in imported pre-charged equipment NOW*

# Service ban on larger refrigeration

- Targets **existing equipment** ( $< -50^{\circ}\text{C}$  excluded)
- No use of F-gases with GWP  $> 2500$  (i.e. *R-404a*)
- From 2020 (reclaimed/recycled until 2030)
- *Only larger equipment: Charge  $> 40\text{t CO}_2\text{eq.}$*

Refrigerant	Charge size threshold (40 t CO <sub>2</sub> -equiv.)
R23	2.72 kg
R404A	10.20 kg
R507	10.04 kg
R422D	14.66 kg



**Rules are less strict for users of low GWP technology**

# Operator and technician obligations depending on climate impacts

Charge limits in t CO <sub>2</sub> -equiv.				
5	40	50	500	1,000

Refrigerant	GWP	Conversion of charge limits in kg				
		5	40	50	500	1,000
R134a	1,430	3.50	27.97	34.97	349.65	699.30
R32	675	7.41	59.26	74.07	740.74	1,481.48
R404A	3,922	1.27	10.20	12.75	127.49	254.97
R407C	1,774	2.82	22.55	28.18	281.85	563.70
R410A	2,088	2.39	19.16	23.95	239.46	478.93
R422D	2,729	1.83	14.66	18.32	183.22	366.43
R507A	3,985	1.25	10.04	12.55	125.47	250.94



**Rules are less strict for users of low GWP technology**



# **Investment signals to manufacturers and buyers of RAC**

***"Stay low, move fast ..."***

***and you will still be cool !***

# Ongoing implementation work

## Implementing Acts

- Quota reference values and Reporting Regulations (done)
- Updates of Labelling and of Training & Certification Regulations (2015)

## Ongoing Studies

- National Codes & Standards, Training for alternative technologies, Green Public procurement (end 2015)
- HFC prices and impacts, patents (2016)



## To know more...

[http://ec.europa.eu/clima/policies/f-gas/index\\_en.htm](http://ec.europa.eu/clima/policies/f-gas/index_en.htm)

Legislation:

[http://ec.europa.eu/clima/policies/f-gas/legislation/index\\_en.htm](http://ec.europa.eu/clima/policies/f-gas/legislation/index_en.htm)

Quota Allocation & Reporting:

[http://ec.europa.eu/clima/policies/f-gas/reporting/index\\_en.htm](http://ec.europa.eu/clima/policies/f-gas/reporting/index_en.htm)

Alternatives:

[http://ec.europa.eu/clima/policies/f-gas/alternatives/index\\_en.htm](http://ec.europa.eu/clima/policies/f-gas/alternatives/index_en.htm)

Guidance documents: *'Reporting' and for RAC technicians & users*

[http://ec.europa.eu/clima/policies/f-gas/documentation\\_en.htm](http://ec.europa.eu/clima/policies/f-gas/documentation_en.htm)

THANK YOU!