



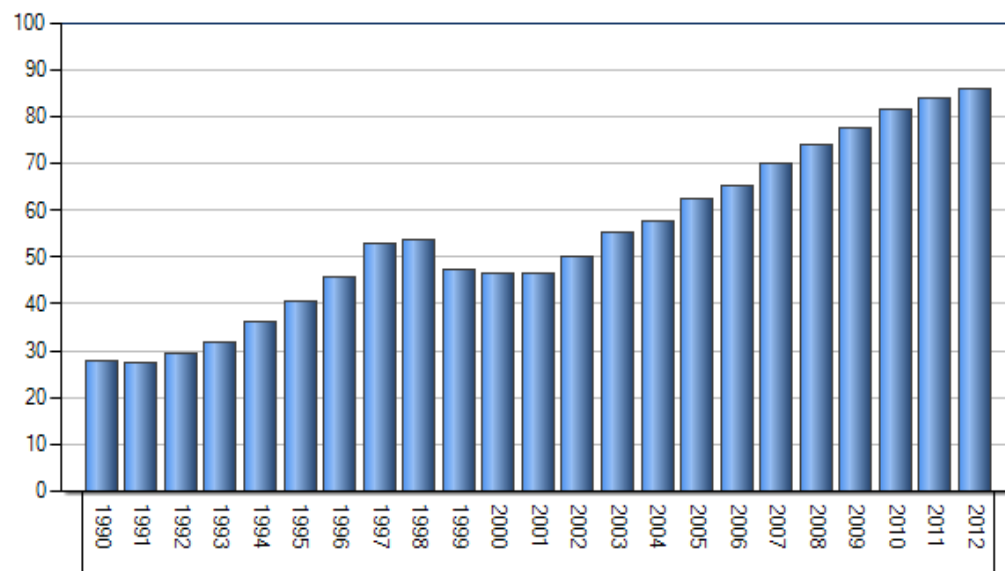
Implementing the new Fgas Regulation

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European Commission

EHPA workshop, Brussels, 29 May 2015

Gas	GWP (AR 4, 100 year)
CO ₂	1
Methane	25
Nitrous Oxide	298
HFC 134a	1 430
HFC 404A	3 922
HFC 410A	2 088
HFC 125	3 500
PFC 14	7 390
SF6	22 800

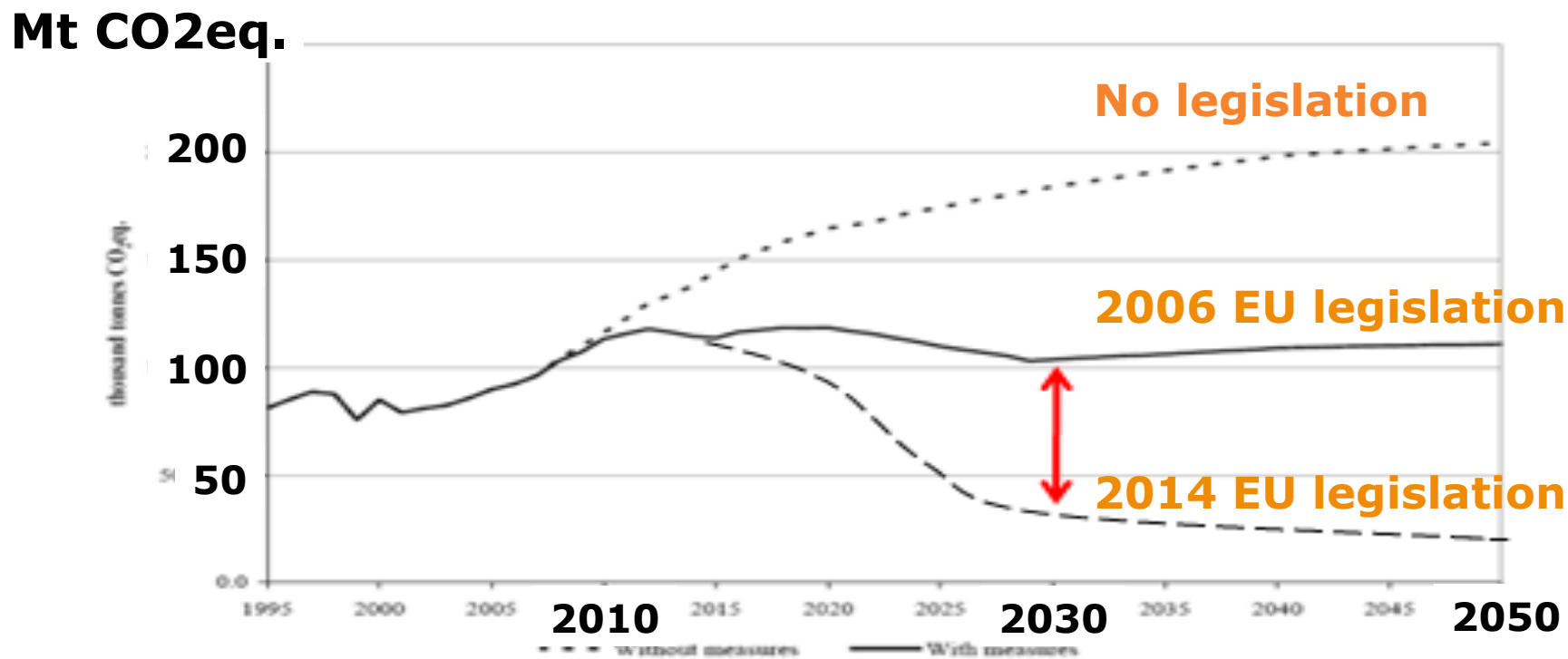
HFC Emissions 1990 – 2012 (EU)



Source. European Environmental Agency



Projected EU F-gas emissions



Cumulative savings of 1.5 Gt by 2030 and 5 Gt by 2050!



Upstream Market Measure: Reduce EU HFC sales (measured in CO₂eq.!) in 3 year steps by 80% (2030)

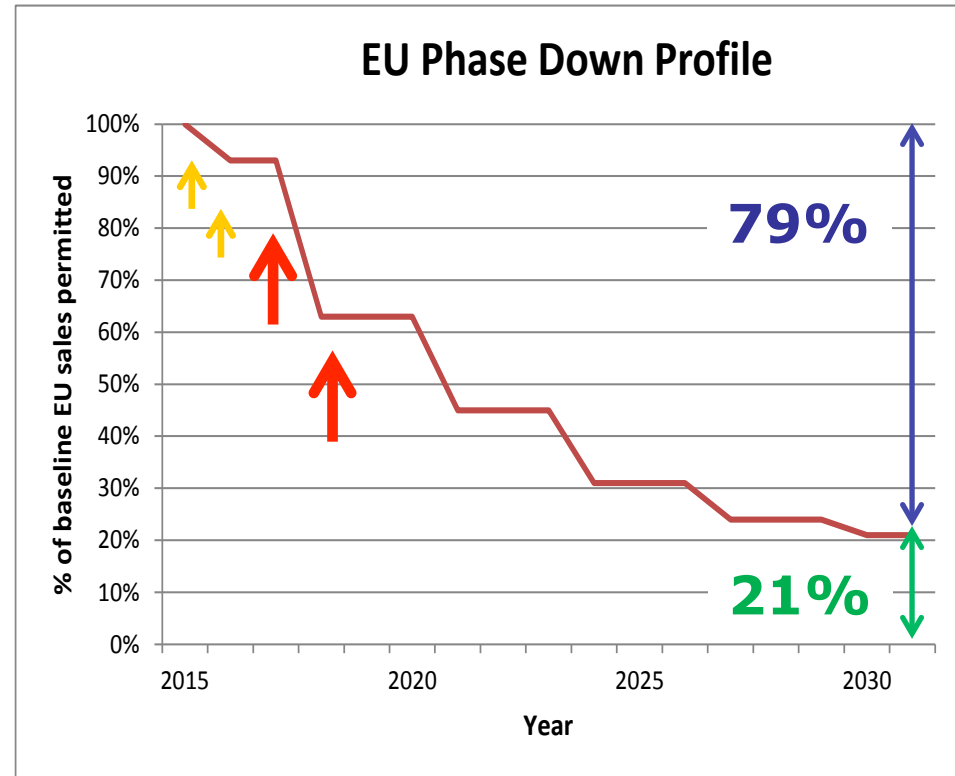
- Companies importing or producing HFCs (bulk!) get **HFC quota** every year (in CO₂eq)
- A company can only place quantities of HFCs on the EU market up to their quota limit
- For 2015, 79 incumbent companies and 334 new entrants got a quota
- *All HFCs in **Precharged RAC equipment** need to be accounted for in the quota system from **2017***



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



Manufacturers and buyers of RAC avoiding HFCs/using low GWP solutions will not/be less impacted (prices)



Tailend for applications where there are no alternatives today (2010), incl. heatpumps!



- 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 even 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**

Reporting



- **Required for equipment importers,**
 - Annual exercise
 - first deadline 31 March 2015 (for 2014 transactions)

- First step: Registration in the **F-gas Portal**
How?

http://ec.europa.eu/clima/policies/f-gas/reporting/docs/guidance_registration_f-gases_portal_en.pdf



CLIMATE ACTION
F-Gas

European Commission > Climate Action > Policies > Fluorinated Gases > Portal

HOME

REGISTRATIONS

ADMIN

HFC REGISTRY

REPORTING

WELCOME ARNO KASCHL

COM FGAS OFFICER

MESSAGE BOARD:

DECLARATIONS FOR 2016 (ADDITIONAL) QUOTA

Companies can now make declarations for (additional) quota for the year 2016, until 30 June 2015. Please go to My Declarations under the HFC Registry link.

[2015-05-04]

HELP:

- [Read the security notice AND privacy statement](#)

USEFUL LINKS:

- [New F-gas Regulation No. 517/2014](#)



- **Ban to service existing equipment probably not relevant (R410A, R134a, R407C etc. all < GWP 2500)**
- **Market ban: Single splits with less than 3kg, GWP<750 from 2025**
- Operators must minimise leakage, keep records, proper recovery
- Certification need for technicians
- Leak checking → **Rules are less strict for low GWP technology**
- **Sale of non-hermetic equipment to enduser only if evidence of installation by certified installers is provided**
- Labelling (**quantity, GWP**), information in manuals & advertising



1. Implementing Acts

- **Labelling** (Fall 2015)
- **Certification** (Fall 2015)
- **Art. 14 compliance for importers of equipment** (2016)

2. Guidance

- **FAQ: Reporting** (published)
http://ec.europa.eu/clima/policies/f-gas/docs/faq_reporting_en.pdf
- **Guidance for RAC technicians and users** (published)
http://ec.europa.eu/clima/policies/f-gas/docs/guidance_document_en.pdf
- HFC by-production (July 2015)
- **Imports of precharged equipment** (July 2015)
- Verification/Auditing (July 2015)

3. Ongoing Studies

- **National Codes & Standards**, Training for alternative technologies, Green Public procurement (Until End of Year)
- **HFC prices and impacts**, patents (Until 2016)



EHPA HP market report, 2012:

"[..] a change in the legislation would have a major impact on the heat pump technology and market. Yet, it is still **too uncertain** to draw conclusions on **whether the effect will be positive or negative.** "

EHPA HP market report, 2014:

"The new F-gas Regulation rules will certainly have an impact on the heat pump industry as most heat pumps deploy F-gases. **However the final impact will not be too bad for the industry.** The phase-down is quite steep but **can certainly be overcome** if the search for alternative lower GWP-refrigerants (e.g. ammonia, propane and CO₂) continues as before."

To know more..



http://ec.europa.eu/clima/policies/f-gas/index_en.htm

Legislation:

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

Alternatives:

http://ec.europa.eu/clima/policies/f-gas/alternatives/index_en.htm

Guidance documents:

http://ec.europa.eu/clima/policies/f-gas/documentation_en.htm

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