



EU actions targeting F-gas emissions

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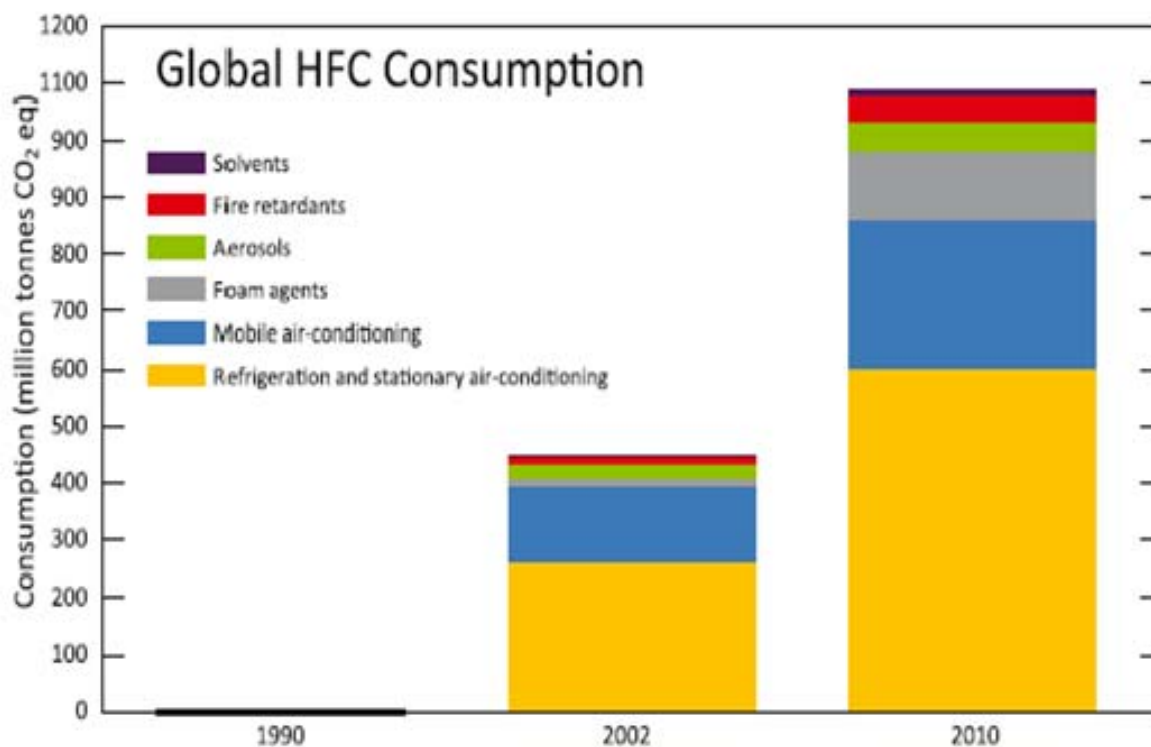
HFC side event, UNFCCC Bonn, 10 June 2013

Climate
Action



European
Commission

Relevance of fluorinated gases (F-gases)



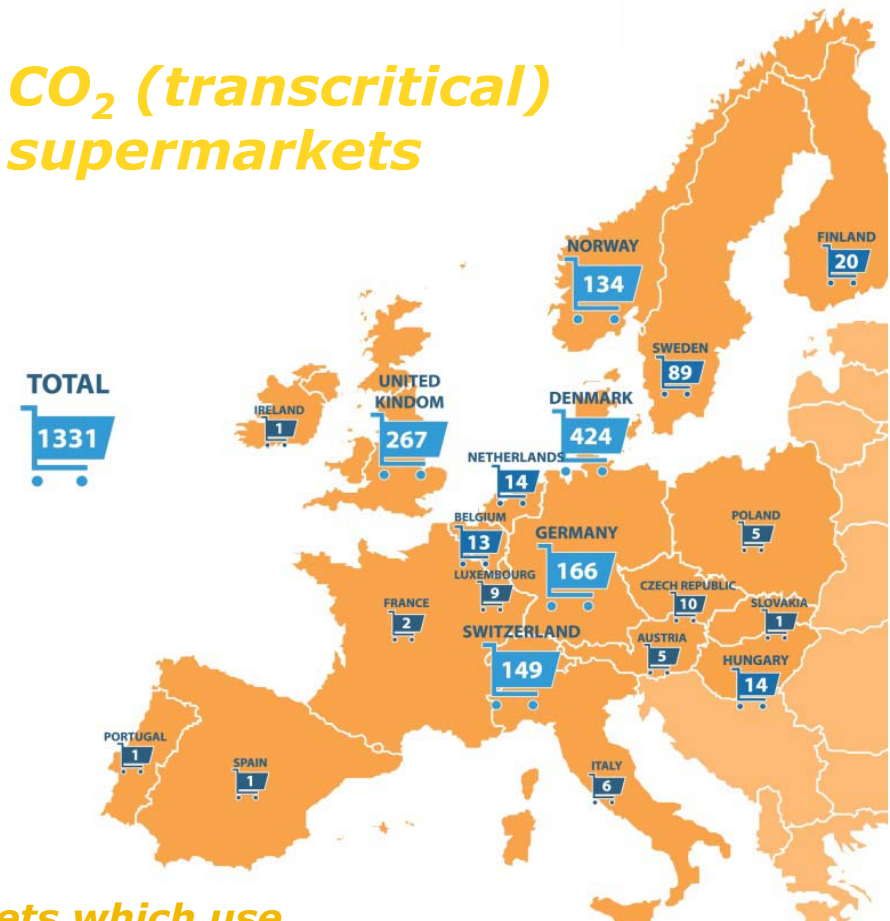
Source: UNEP, 2011

| 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 |
| SF ₆ | 22 899 |

Many approaches possible & used

- **Voluntary measures**
- **Incentive schemes**
- **Taxes**
- **Bans**
- **Technology transfer**

CO₂ (transcritical) supermarkets



In addition, many supermarkets which use other low GWP systems, e.g. CO₂-cascade,..

Source: Shecco, 2012



Existing EU F-gas Policy (2006+)

(1) F-Gas Regulation *Focus on "Containment"*

- *leak prevention in existing equipment*
 - *recovery of gases after use*
 - *training and certification of relevant personnel*
 - *record keeping and reporting*
- some bans*

(2) MAC Directive

- *bans of HFCs >150 in passengers cars and light trucks*

Also policies on ecodesign, ecolabelling, waste,...

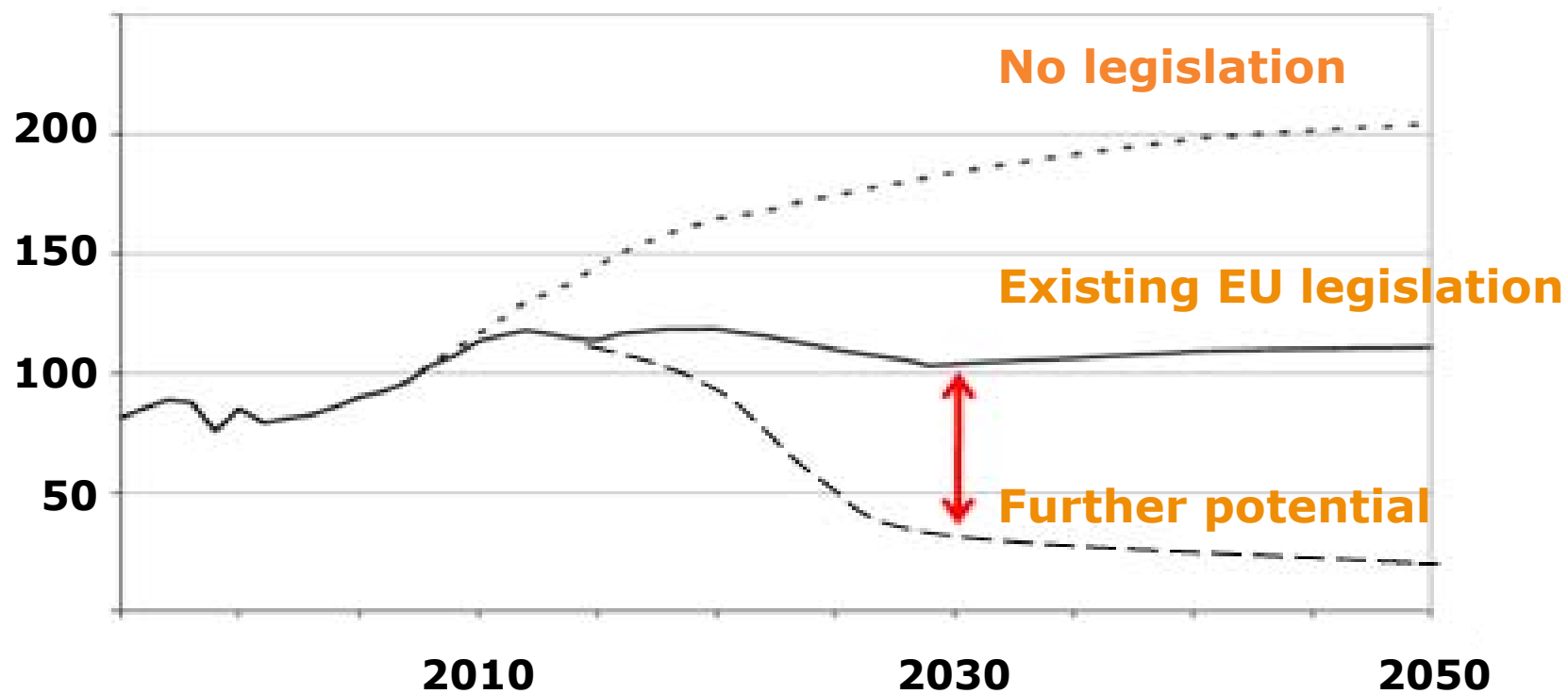


Why strengthening EU F-gas policy further?

- *EU 2050 climate targets is to reduce GHG emissions by 80-95% (1990-level)*
 - Necessary contribution from F-gas sector is 60% reduction in 2030, based on 2005
- *Technical studies confirmed that F-gases are low-hanging fruits for mitigation*
 - Several suitable (safe, energy-efficient, cheap) low GWP alternatives are available for most F-gas applications!
 - Abatement costs are modest

Projected EU F-gas emissions

Mt CO₂eq.





New Proposal for a Regulation

7 November 2012

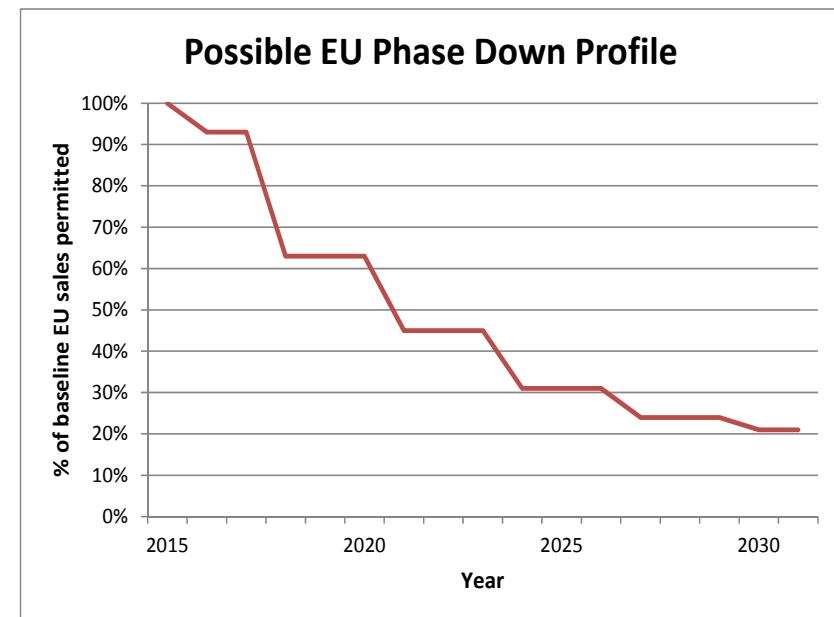


- *Maintain measures to avoid emission prevention*
- *"Phase-Down"*
- *Accompanying Bans*
 - *"Sign-post" the phase-down*
 - Areas: domestic refrigeration; small commercial refrigeration systems; movable AC units
 - *Ban on servicing equipment with high GWP HFCs*

New thrust of proposal: Reducing use of high GWP HFCs in new equipment

EU Phase-Down of bulk HFC

- *Reduce current demand of HFCs in 3 year steps to around 20% by 2030*
- *Freeze in 2015, first step in 2016*
- *Tailend for applications where there are no alternatives today*

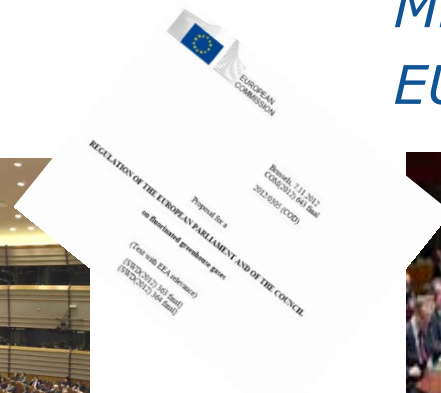


EU F-gas proposal next step: Adoption

European Parliament
754 Members
directly-elected



Council of the EU
Ministers from all
EU Member States



Proposal in the EU legislative procedure
Timing: Aiming for 2014



EU actions on F-gases in international context

- *Increased EU demand for alternative technologies*
 - innovation and economies of scale also in other markets
 - hence reducing costs of a global phase-down of HFCs
- *Show leadership in reducing the emissions gap*
- *We are actively exploring further options for international collaborations to achieve faster reductions of HFC consumption*

There is a unique window to save money and effort by acting now, by (i) reducing existing use of HFCs, and (ii) using low-GWP alternatives when replacing ozone depleters



EU submission to UNFCCC

Proposed Decision Relating to Phasing Down of HFCs under the Montreal Protocol

- *Profit from existing and well-functioning means of implementation under MP for the same industry sectors*
- *Dealing with consumption under MP and emissions under UNFCCC can be fully complementary actions*
- *EU experience highlights the great potential benefit of acting quickly: important cost savings are possible if we avoid that high GWP HFCs are phased in first*



To know more...

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

Thank you for your attention!

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