



F-Gas Review:

Report from the Commission

***On the application, effects and adequacy of
Regulation (EC) No 842/2006***

COM(2011) 581 final, 26.9.2011

Stakeholder Meeting, 13 February 2012, Brussels



The Review of the F-gas Regulation

- ***Assess the application of current EU F-Gas policy***
- ***Assess the current and projected effect of the Regulation***
- ***Assess the mid/long-term adequacy of the Regulation***





Application of the F-gas Regulation

Experience after 4 years

Successful use and marketing restrictions

- **A few exceptions: e.g. non-refillable containers**

Satisfactory labelling

- **Harmonised labels on a voluntary basis**
- **Some practical constraints: e.g. limited space for all languages in small equipment**
- **Limited cases of non-compliant (imported) products**





Application of the F-gas Regulation

Experience after 4 years

Delayed training & certification

- 8 Member States had yet to notify their systems (today still 4, 2 MS with some gaps)
- >50% of personnel to be certified at the time of the report
- >50-90% of companies to be certified

Delays in penalty rules

- 4 Member States had yet to notify (today still 3)

Inconsistent compliance with containment measures

- Large vs. small equipment
- Pre-Regulation regime





Application of the F-gas Regulation

Experience after 4 years

Growing potential for recovery

- **End-of-life equipment with F-gases will grow significantly**
- **Reclamation and destruction infrastructure not available in all Member States: cross-border shipment needs to be facilitated**

Reporting requirements well applied

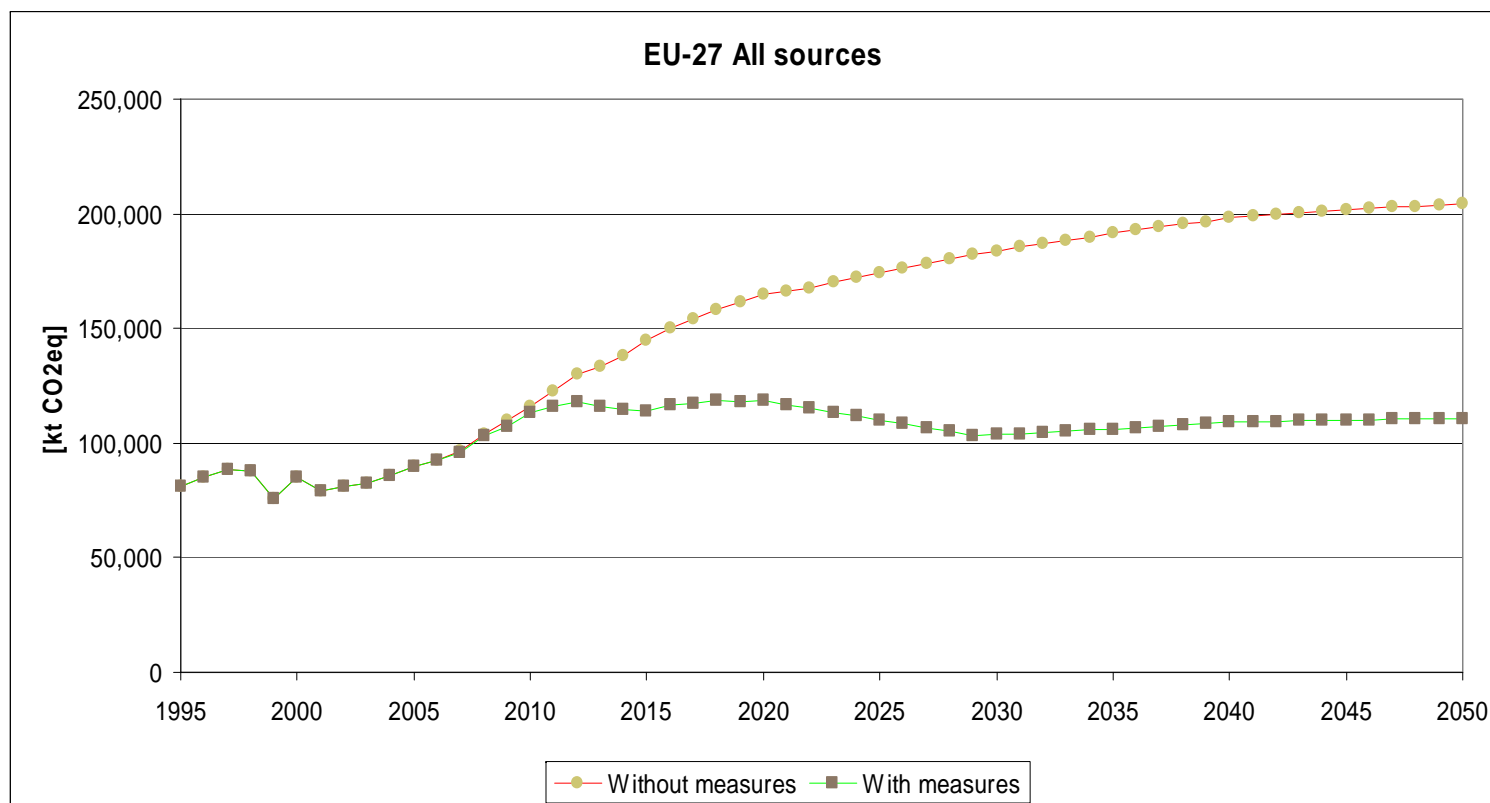
- **Monitoring not significantly distorted by 1-tonne threshold**
- **Significant distortion by pre-charged quantities**
- **Some distortion by lack of comprehensive information on reclamation and destruction**





European
Commission

F-gas emissions in 1995-2050 without measures and the effects of the F-gas Regulation and MAC Directive



Source: Figure 5-1 in Schwartz et al. 2011.



Effect of the F-gas Regulation

Measuring effectiveness & efficiency

Bans already delivering but potential almost exhausted

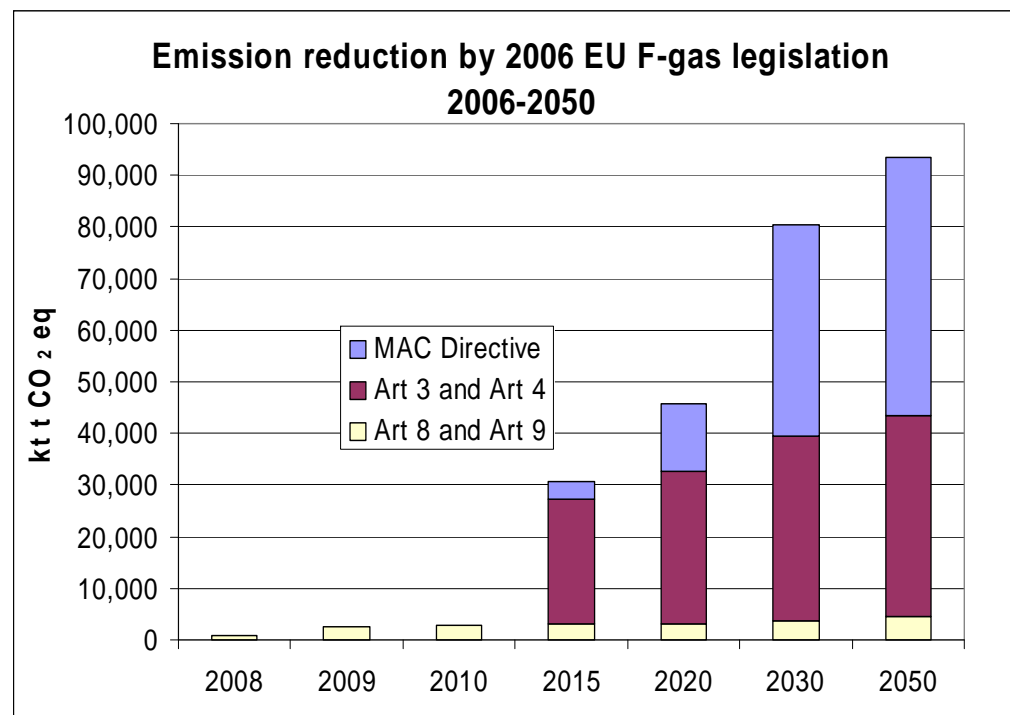
- 2020: 3 Mt CO₂-eq
- 2050: 4 Mt CO₂-eq

Containment measures yet to deliver but high potential in the mid-term, if fully applied

- 2020: 29 Mt CO₂-eq
- 2050: 38 Mt CO₂-eq

MAC Directive's ban the most effective measure in the long term

- 2020: 13 Mt CO₂-eq
- 2050: 50 Mts CO₂-eq



Regulation's emission reductions are expected come at a average cost of ~41 € per tonne CO₂-eq



Adequacy of the F-gas Regulation

The need and scope for further EU action

- **EU committed to reduce its GHG emissions by 80-95% by 2050**
- **A cost-effective pathway to this reduction requires reductions of non-CO2 emissions outside agriculture by 72-73% by 2030 and by 70-79% by 2050;**
- **Growing feasibility of replacing F-gases in several sectors with alternatives that make less or no contribution to climate change**
- **Potentially up to 2/3 of today's F-gas emissions could be eliminated by 2030 in the EU**

