

TOOLS AND TRENDS IN CONTROLLING REFRIGERANTS

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Introduction

- Global Trends
- Status in the EU
- The Danish Perspective



Global Trends

- The Big Protocols: Kyoto and Montreal
- Differentiation of obligations
- Impacts on Climate



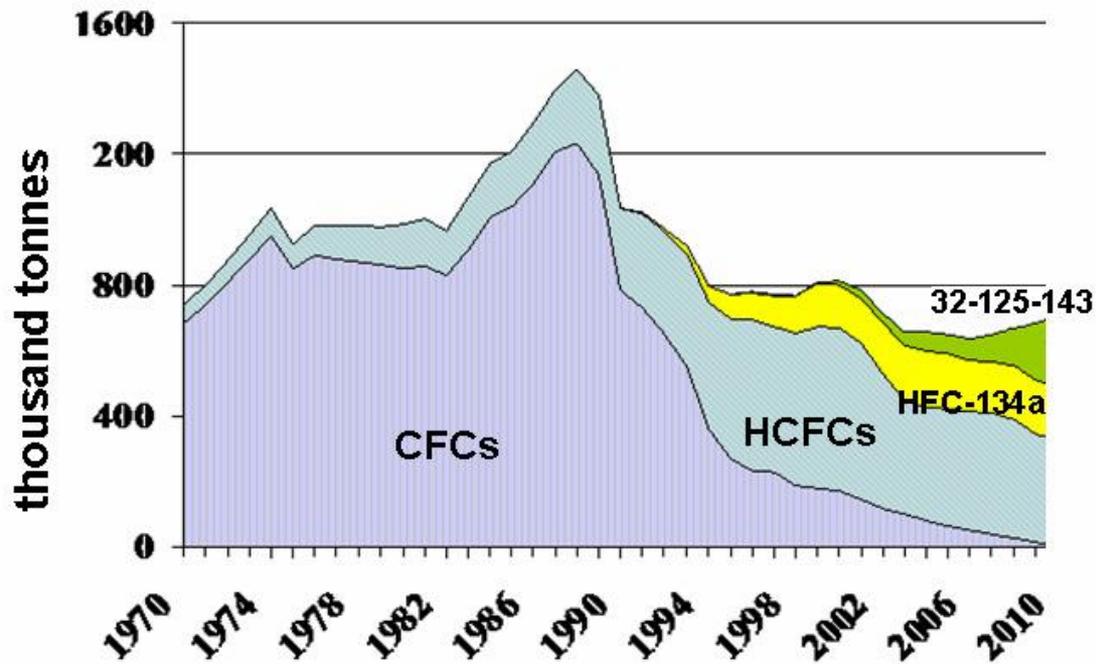


Kyoto - Montreal

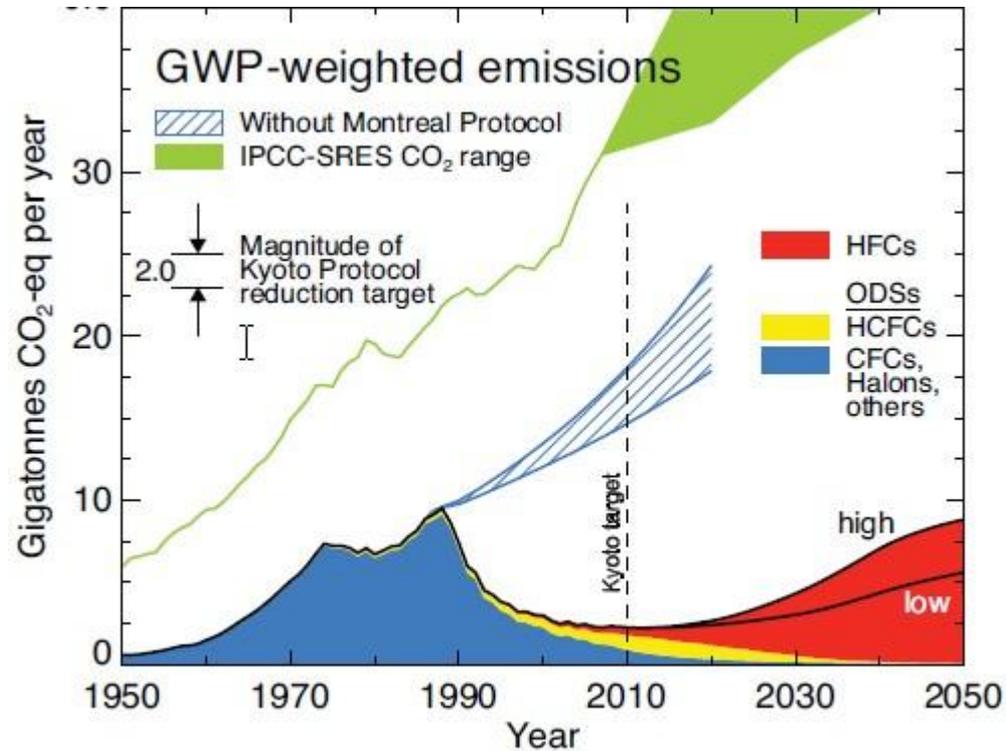
- The Kyoto gasses: CO₂, Methane, Nitrous Oxide, HFCs, PFCs and SF₆
- Kyoto sets quotas for emissions
- Montreal bans production and consumption



Global Consumption of F-gasses



Forecast of HFC emissions



2 proposals to ban HFCs under the Montreal Protocol



- USA, Canada and Mexico
- Micronesia

- Key elements almost identical



Key elements of the proposals

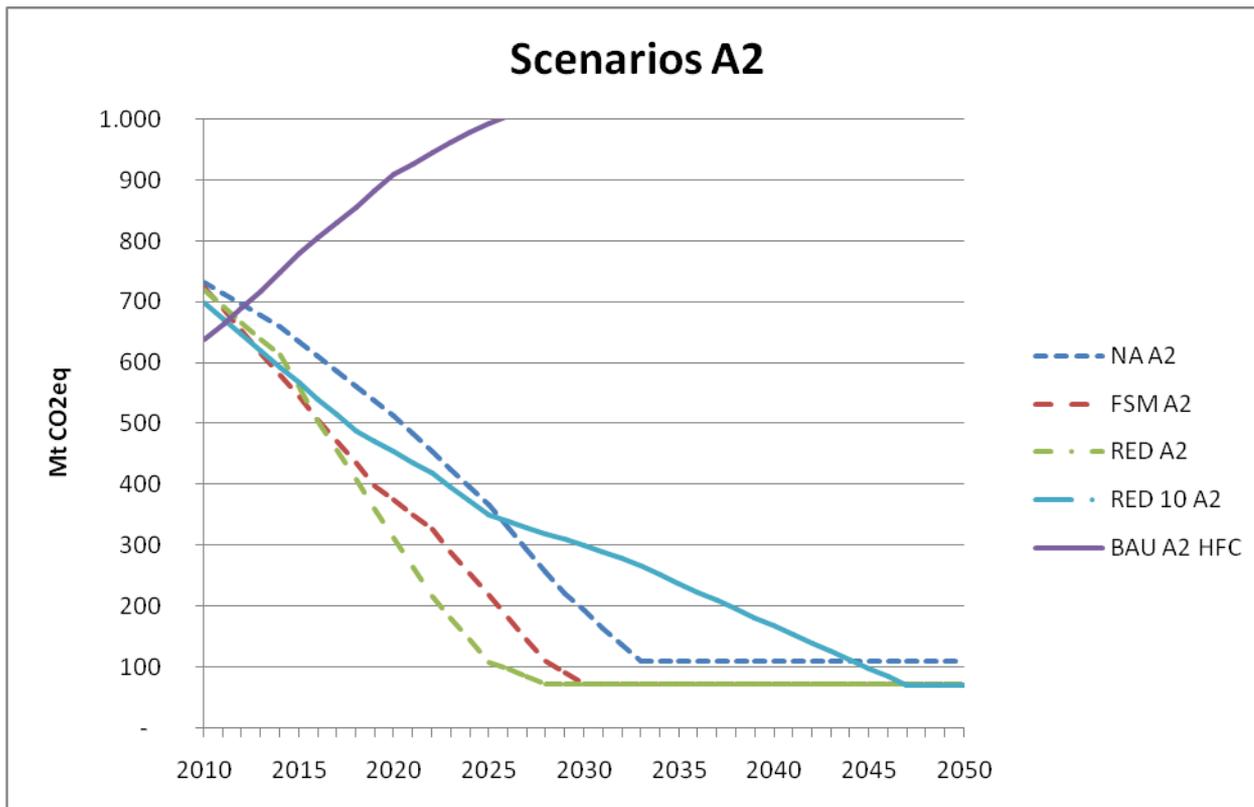
- 21 HFCs would be controlled substances; their GWP-weighted production and consumption would be capped and gradually reduced
- The baseline would be calculated on the basis of historic production/consumption of HCFCs (A5) and on the basis of HFCs and HCFCs (A2)
- HFCs would be subject to import and export licensing; imports and exports to non-Parties would be prohibited

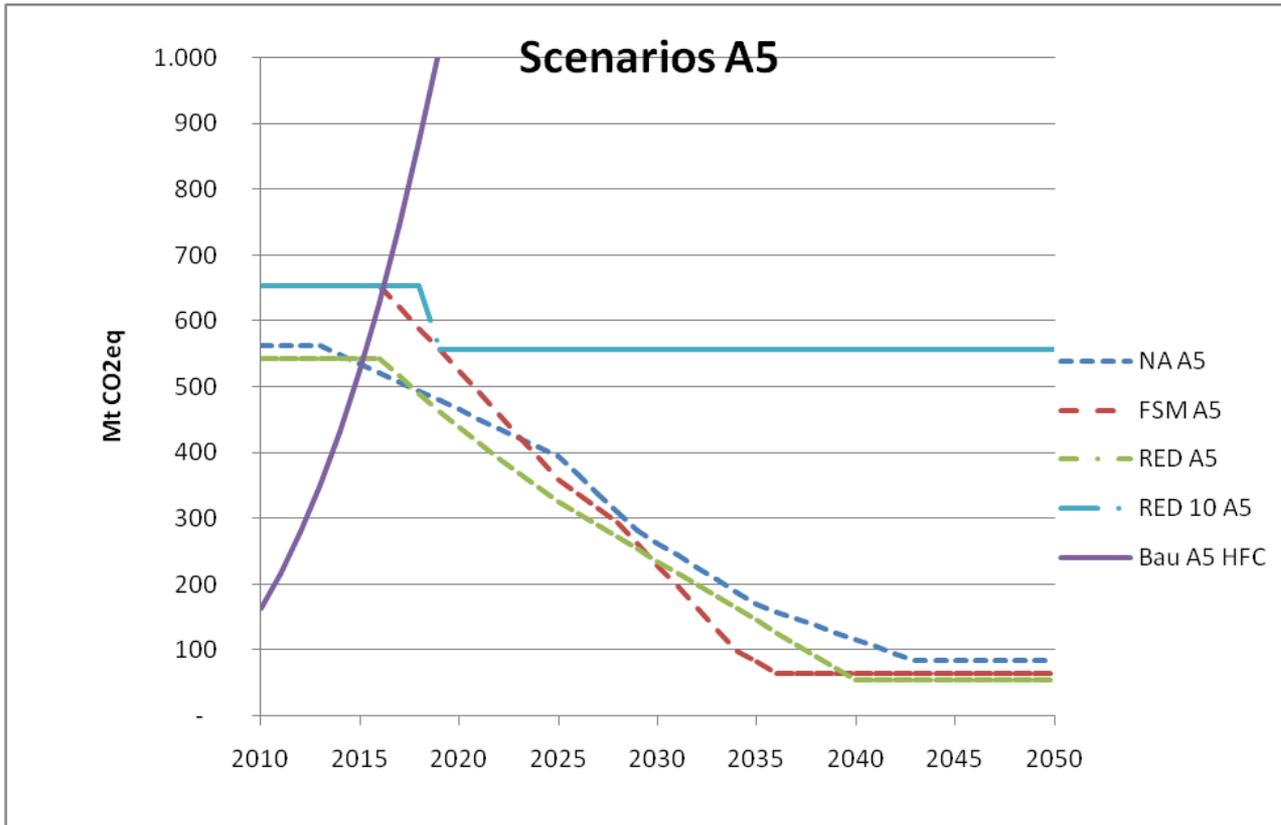


Control schedule

	2011 FSM proposal	
Entry into force	1 January 2013 (subject to ratification by 20 Parties)	
Scope	21 HFCs (incl. 2 low GWP HFCs (HFOs))	
Baseline	A2	A5
	Average prod./cons. of (HFCs + HCFCs) in 2004, 2005, 2006	Average prod./cons. of HCFCs in 2007, 2008, 2009
Control schedule	85% by 2014 70% by 2017 55% by 2020 45% by 2023 30% by 2026 15% by 2029 10% by 2031	85% by 2020 70% by 2023 55% by 2026 45% by 2029 30% by 2032 15% by 2035 10% by 2037
Licencing	As of 1 January 2013 (A2), 1 January 2015 (A5)	
Links to the UNFCCC	Clause which explicitly states that HFCs remain under UNFCCC/KP and existing UNFCCC and KP provisions apply	
Estimated aggregate consumption reduction (billion tonnes CO₂-eq) by 2030: 25.5		







Status in EU

- Existing regulation on refrigerants:
 - Regulation 842 on certain fluorinated greenhouse gasses
 - Regulation 303 -308 on education
 - MAC directive
 - Regulation 1005 on substances that depletes the ozone layer



Revision of the F-gas directive

- Article 10. 2. By 4 July 2011, the Commission shall publish a report based on the experience of the application of this Regulation. In particular, the report shall:....
- 3. Where necessary, the Commission shall present appropriate proposals for revision of the relevant provisions of this Regulation.





The situation in Denmark after 2012

Article 9

3. (a) Where a Member State has, by 31 December 2005, adopted national measures which are stricter than those laid down in this Article and which fall within the scope of this Regulation, concerning the placing on the market of products and equipment containing, or whose functioning relies upon, fluorinated greenhouse gases, that Member State may, subject to point (b), maintain those national measures until 31 December 2012.



MORE INFORMATION – ABOUT THE DANISH EPA

- www.mst.dk/English/
- Read "Working for the environment"
http://www.mst.dk/NR/rdonlyres/A426E325-9C3E-45BD-9EE2-5315ADDDFFAFA/0/12230_MST_profil_uk_web.pdf

