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EU F-Gas Regulation Review



ATMOsphere Bangkok 2013

Bangkok, 28 June 2013

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EU F-Gas Regulation revision - rationale

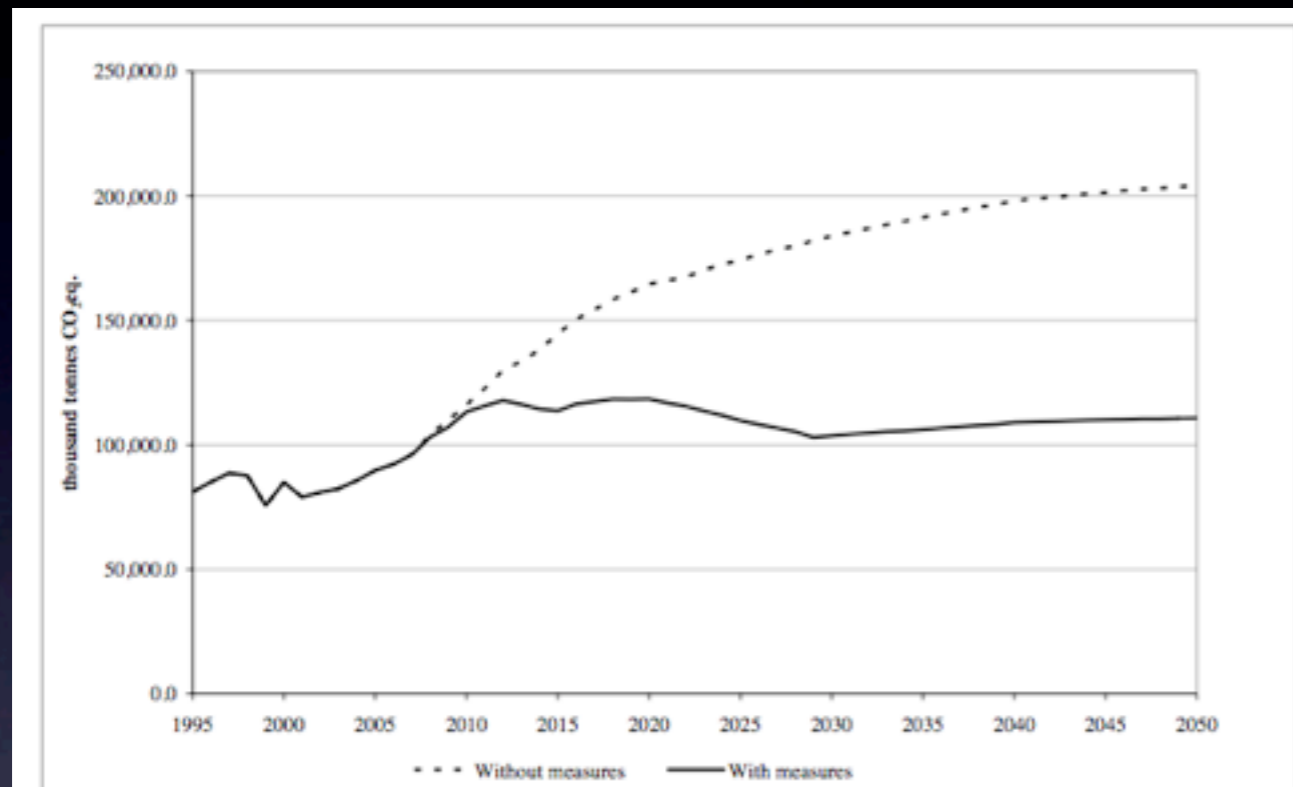


Figure 1: Projections of F-gas emissions in the EU without and with the measures in the F-gas Regulation and the MAC Directive

source: EC report on effectiveness of EU F-Gas Regulation, Sept 2011

Figure 1: Projections of F-gas emissions in the EU without and with the measures in the

- September 2011 - EC report assessing F-Gas Regulation effectiveness concludes:

more action on f-gases is needed to achieve EU's long-term emission reduction targets

“the overall EU objective to cut emissions by 80–95 % by 2050, the stabilisation of F-gas emissions at today's levels is not adequate. Our studies show that low-GWP technologies are technically feasible and can be cost-effective in many application areas”.

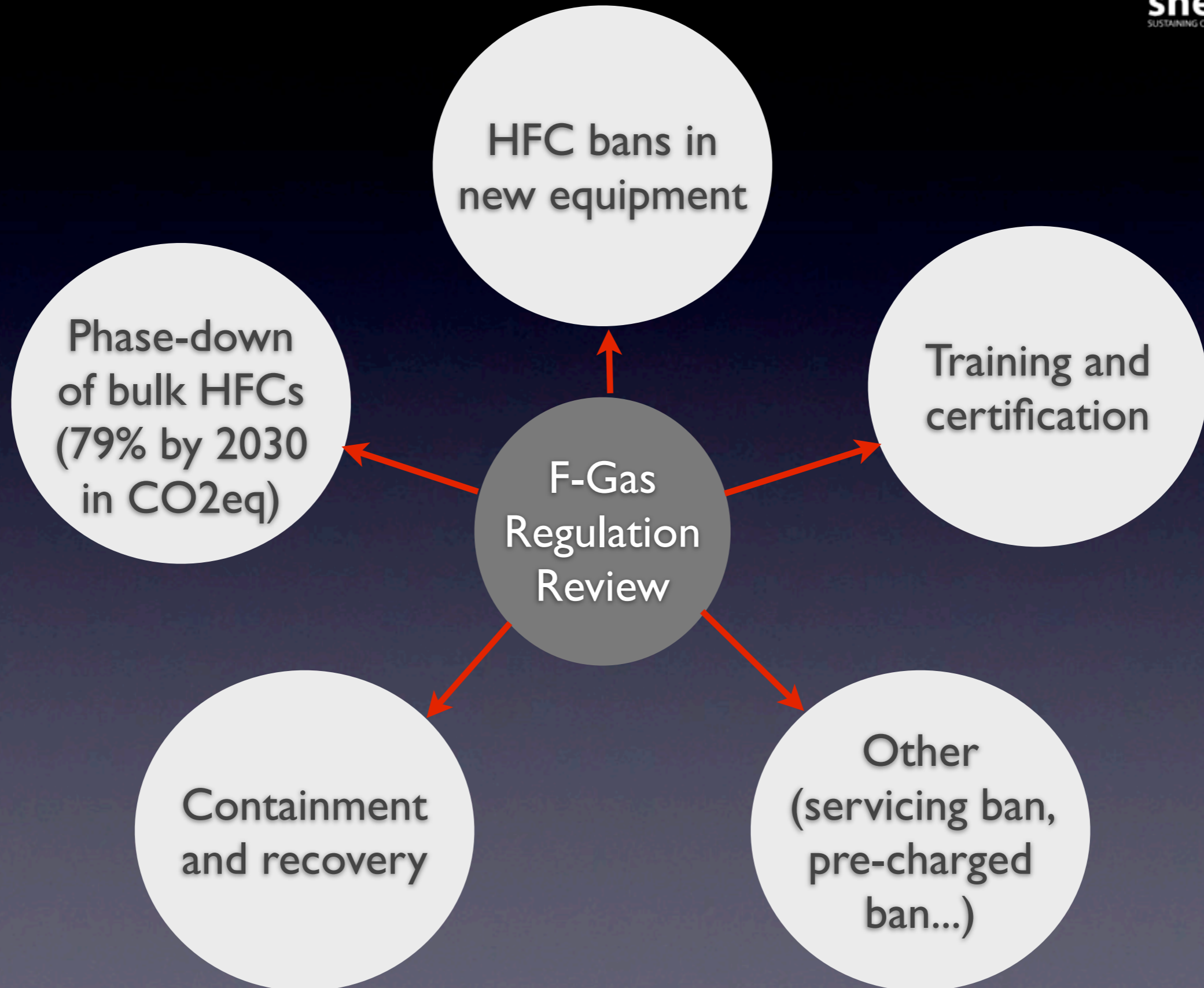
EU F-Gas Regulation revision - EC proposal



- © European Commission published the proposal in November 2012



EU F-Gas Regulation revision - EC proposal



European Parliament strengthens the F-Gas Regulation proposal - 20 June 2013

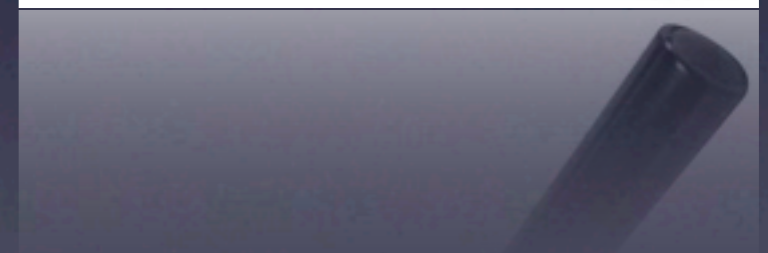


- ✓ **HFC bans** in new equipment in additional sectors
- ✓ **More ambitious phase-down** - 84% reduction by 2030 against 2009-2012 baseline
- ✓ **Allocation fee on quotas** with part of the revenues streamlined to facilitate an international agreement on HFCs
- ✓ Maintained requirement to include alternatives to f-gases in **certification of technicians** + necessity to update knowledge every 5 years

EU F-Gas Regulation - European Parliament



- ✓ 6 months of scrutiny
- ✓ expert hearings
- ✓ consultations with the European Commission and other experts, industry
- ✓ results of the preparatory study and impact assessment



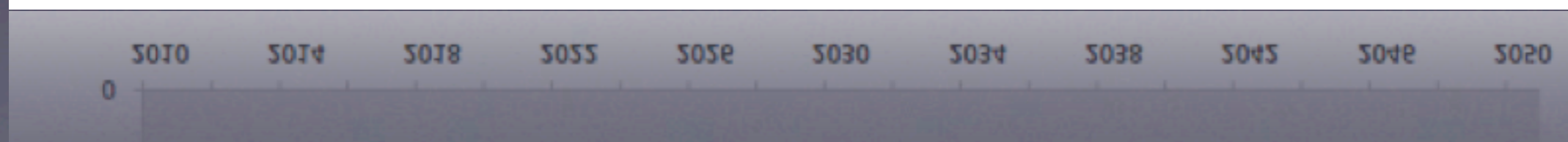
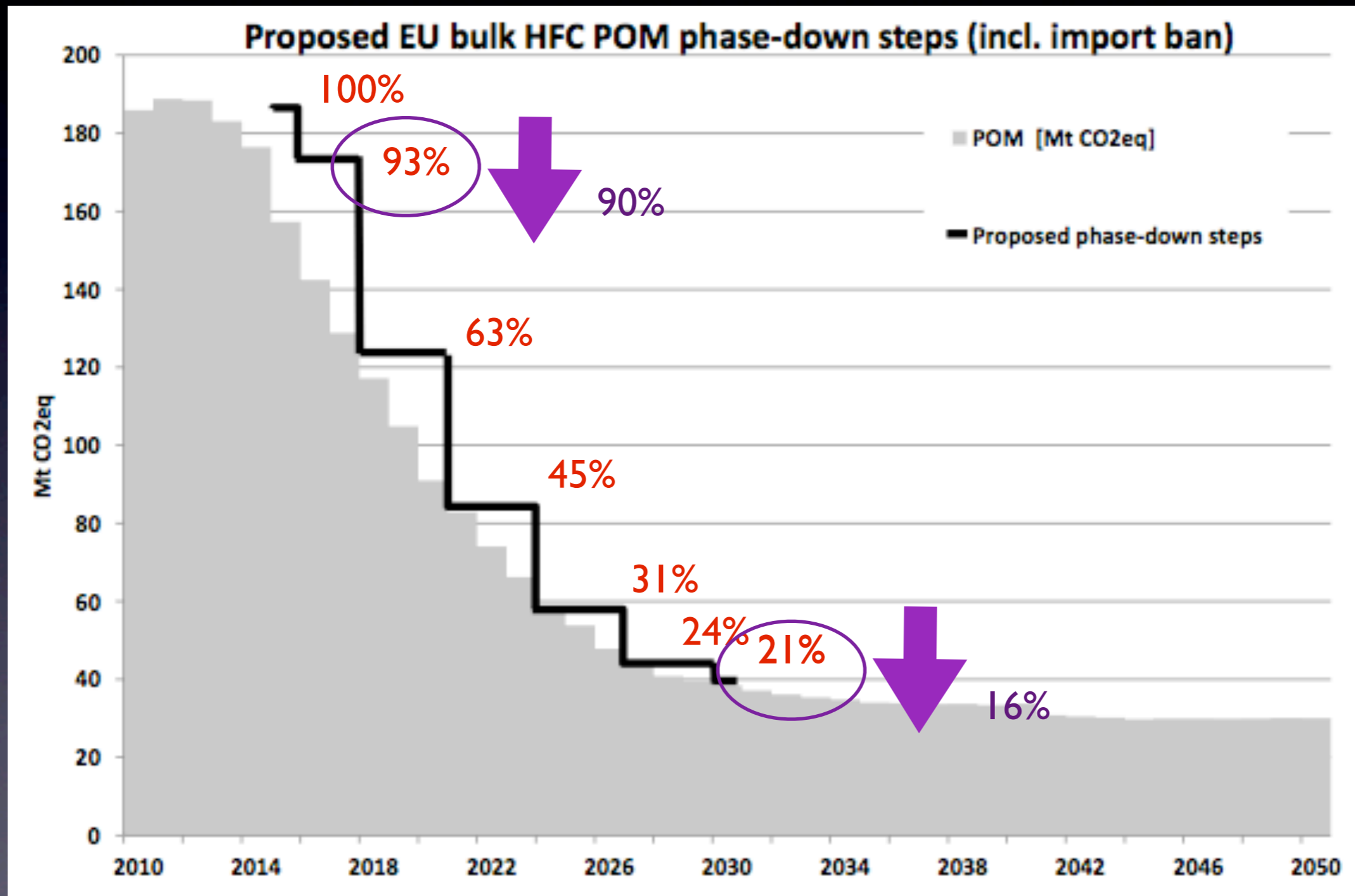
EU F-Gas Regulation - European Parliament



“I think today’s vote is a very, very important outcome for the industry that has been investing in the natural alternatives. They have a very clear signal now that their technologies will be the only ones on the European market after 2020 and it goes down to stationary air-conditioning and refrigeration. I think that is a very important signal also for the ones that have been relying on f-gases – they know it will stop after 2020.”


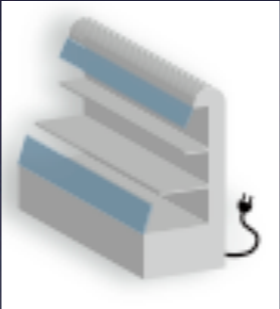
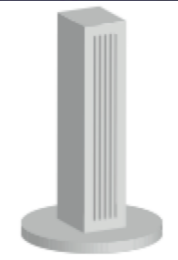
MEP Bas Eickhout, after the vote in the European Parliament’s Environment Committee

EU F-Gas Regulation - Phase-down schedule



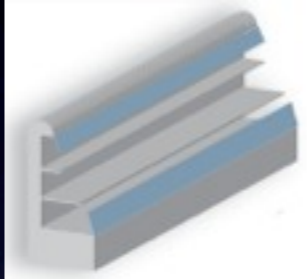



EU F-Gas Regulation - HFC bans in new equipment



Type of equipment	Ban applies as of
1. Domestic refrigeration 	2015 for HFCs
2. Hermetically sealed refrigeration systems for commercial use 	2015 if GWP \geq 2,150 2018 for HFCs
3. Movable air conditioning systems (hermetically-sealed) 	2020 for HFCs

EU F-Gas Regulation - HFC bans in new equipment



Type of equipment	Ban applies as of
4. Stationary refrigeration (except for use below - 50 degrees) 	2016 if GWP \geq 2,150 2020 for HFCs
5. Stationary air-conditioning 	2020 for HFCs
6. Mobile refrigeration 	2025 for HFCs
7. Air-conditioning in cargo ships 	2020 for HFCs

HFC bans in new equipment to complement and deliver HFC phase-down



- ✓ clear timelines -> investment certainty
- ✓ reward innovation
- ✓ sufficient time to adjust
- ✓ affects only new equipment
- ✓ avoid future conversions
- ✓ avoid cost resulting from future conversions

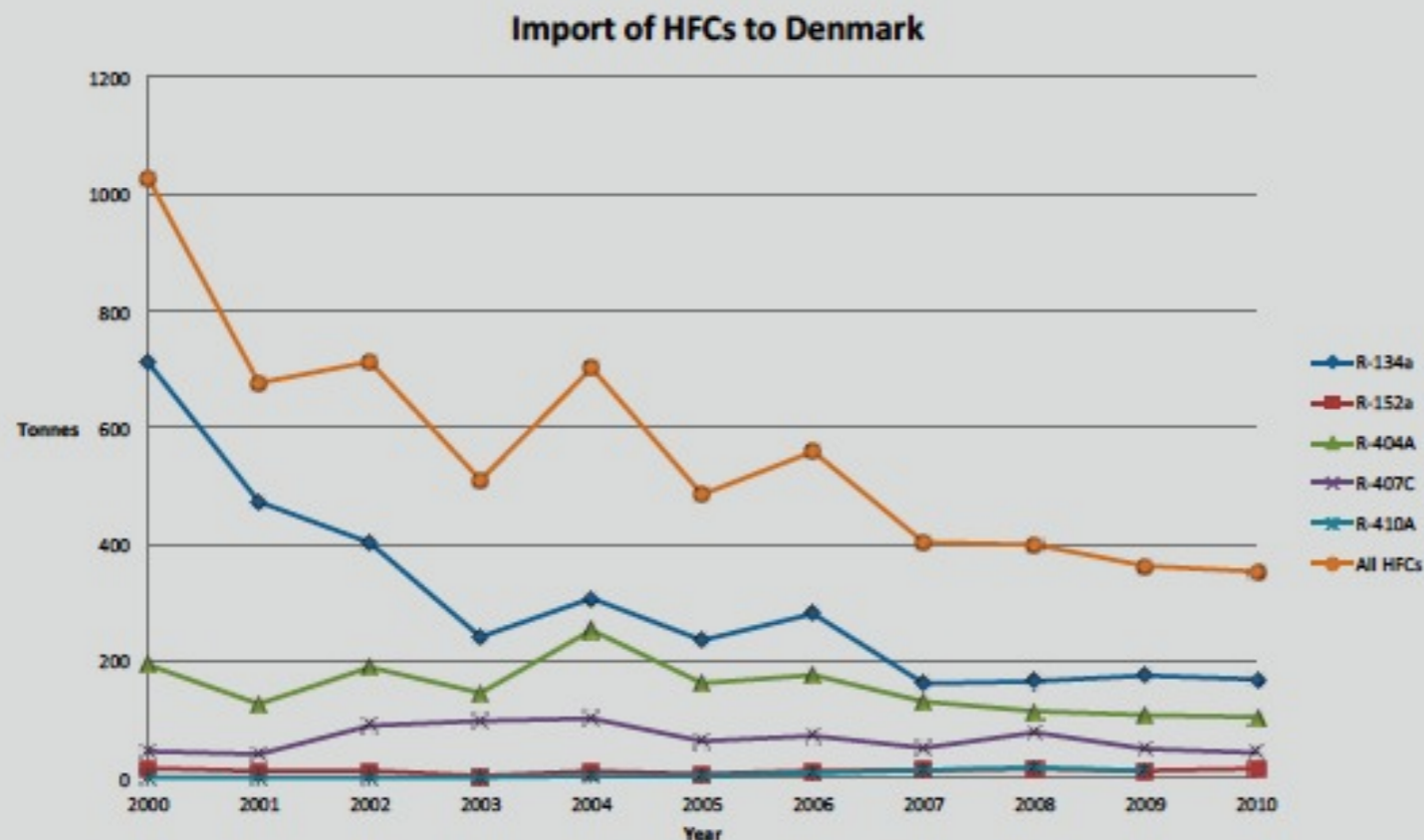


Denmark: ambitious F-Gas Regulation can be successful



"To policy makers the lesson [learnt from Denmark] would probably be that you should keep cool. You would be told that alternatives do not exist and that it would be too costly. But I think you should be confident that the alternatives are there or if they aren't yet, they will most probably be developed [...] You would be surprised how far the industry can go if they get the right signal [...]"

Mikkel Aaman Sørensen, Danish Environmental Protection Agency, ATMOSphere Europe 2012Text



- ✓ 2001 - HFC tax introduced (now app. € 20 tCO₂eq)
- ✓ 2006 - general ban on use of HFCs (except equipment with charges between 0.15 and 10kg)

N.America:
Montreal Protocol
amendment
proposal

Quebèc: considers
limiting HFCs in
commercial refr. and
arenas

Norway: HFC tax
+ refund scheme

Sweden: proposed
HFC tax

France:
considering HFC
tax

Japan: HFC phase-
down + other
measures

Denmark: HFC
tax + HFC bans

Switzerland:
HFC bans as of
Dec 2013

SNAP
approval for
HCs

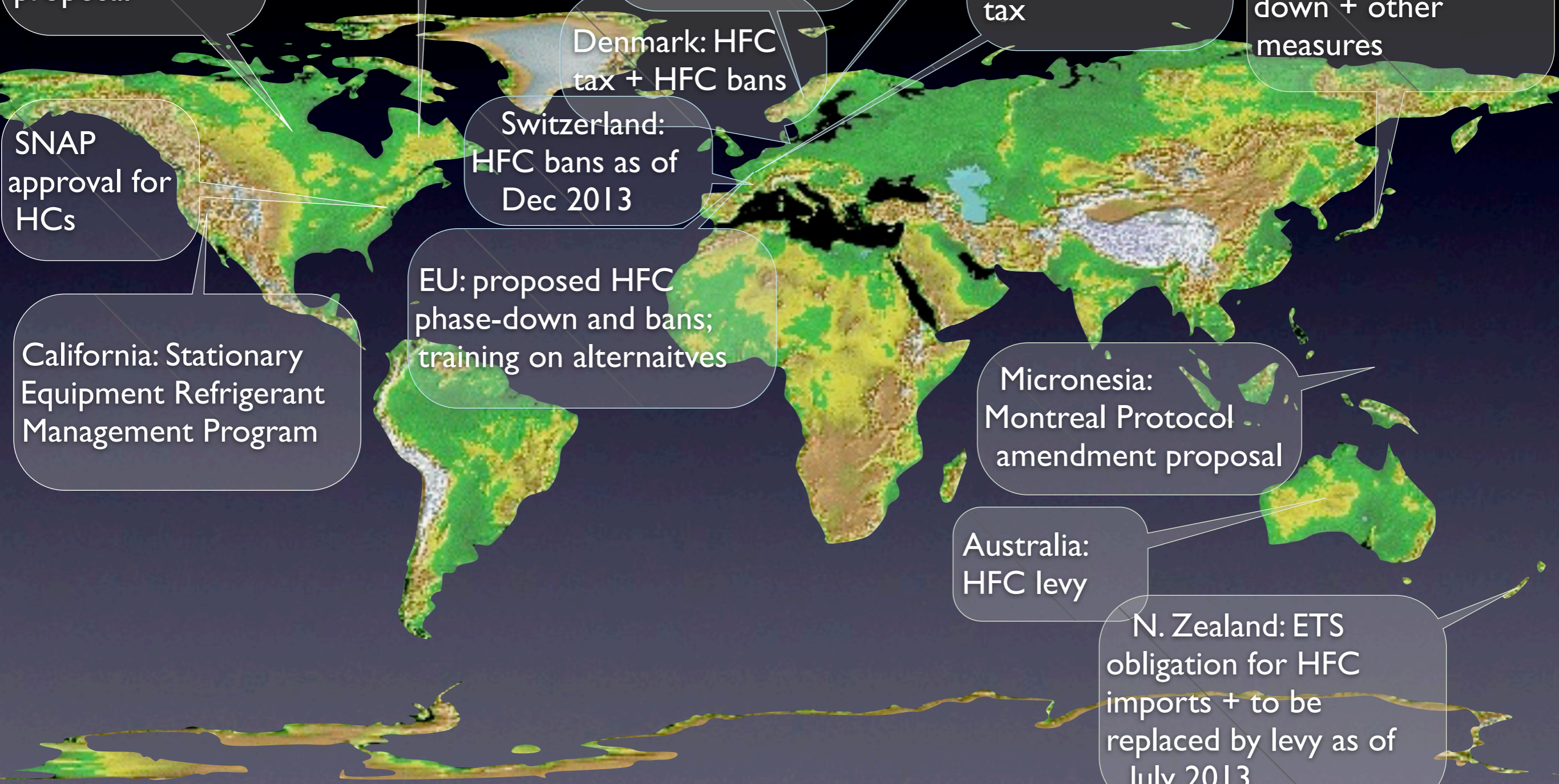
EU: proposed HFC
phase-down and bans;
training on alternaitves

California: Stationary
Equipment Refrigerant
Management Program

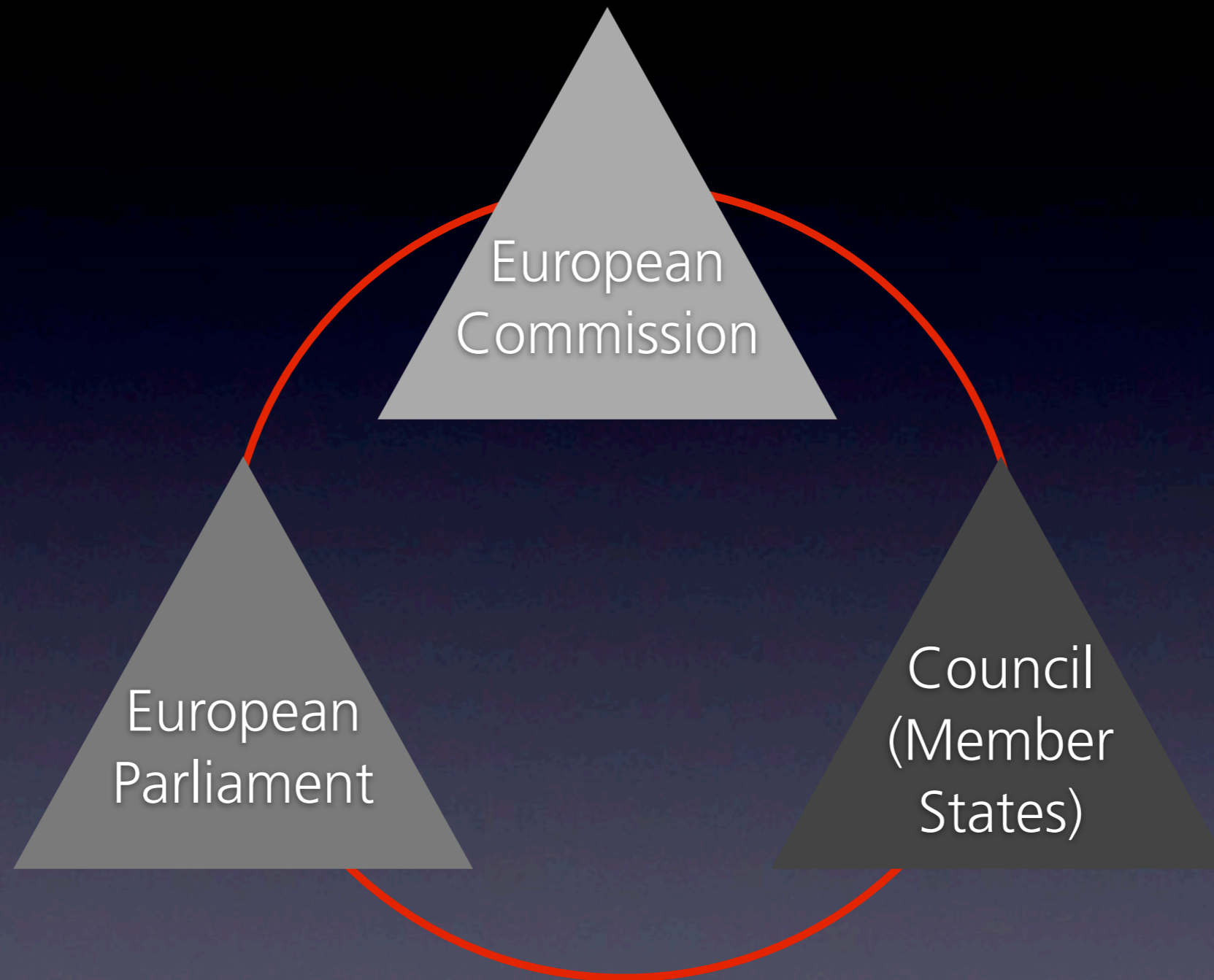
Micronesia:
Montreal Protocol
amendment proposal

Australia:
HFC levy

N. Zealand: ETS
obligation for HFC
imports + to be
replaced by levy as of
July 2013



EU F-Gas Regulation revision - what next?





thank you

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