

# Strengthening F-Gas policies - Where do we stand?



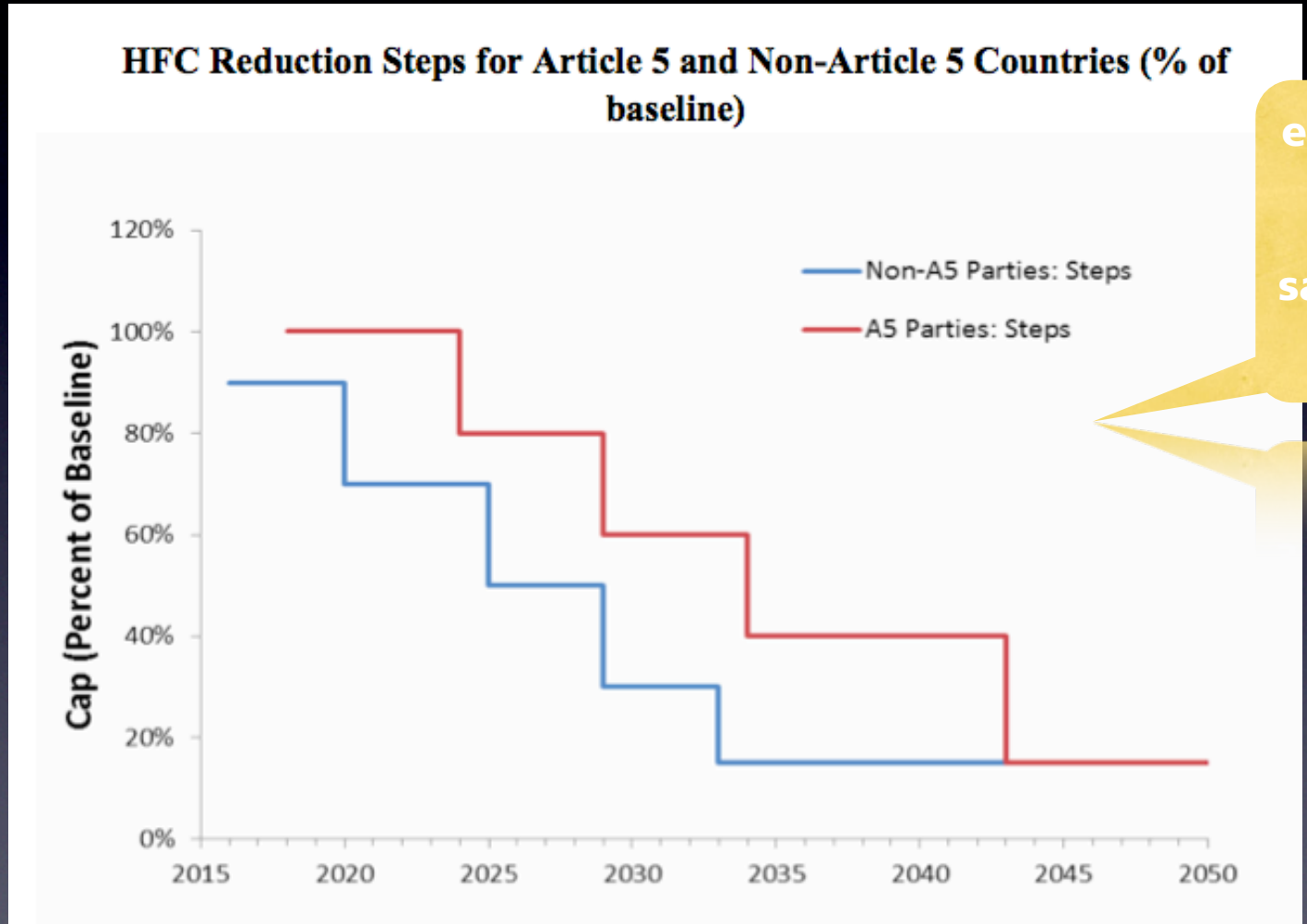
24<sup>th</sup> Meeting of the Parties to the Montreal Protocol

**Geneva, 14 November 2012**

**Alexandra Maratou**

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# Proposed Montreal Protocol amendments - no agreement yet

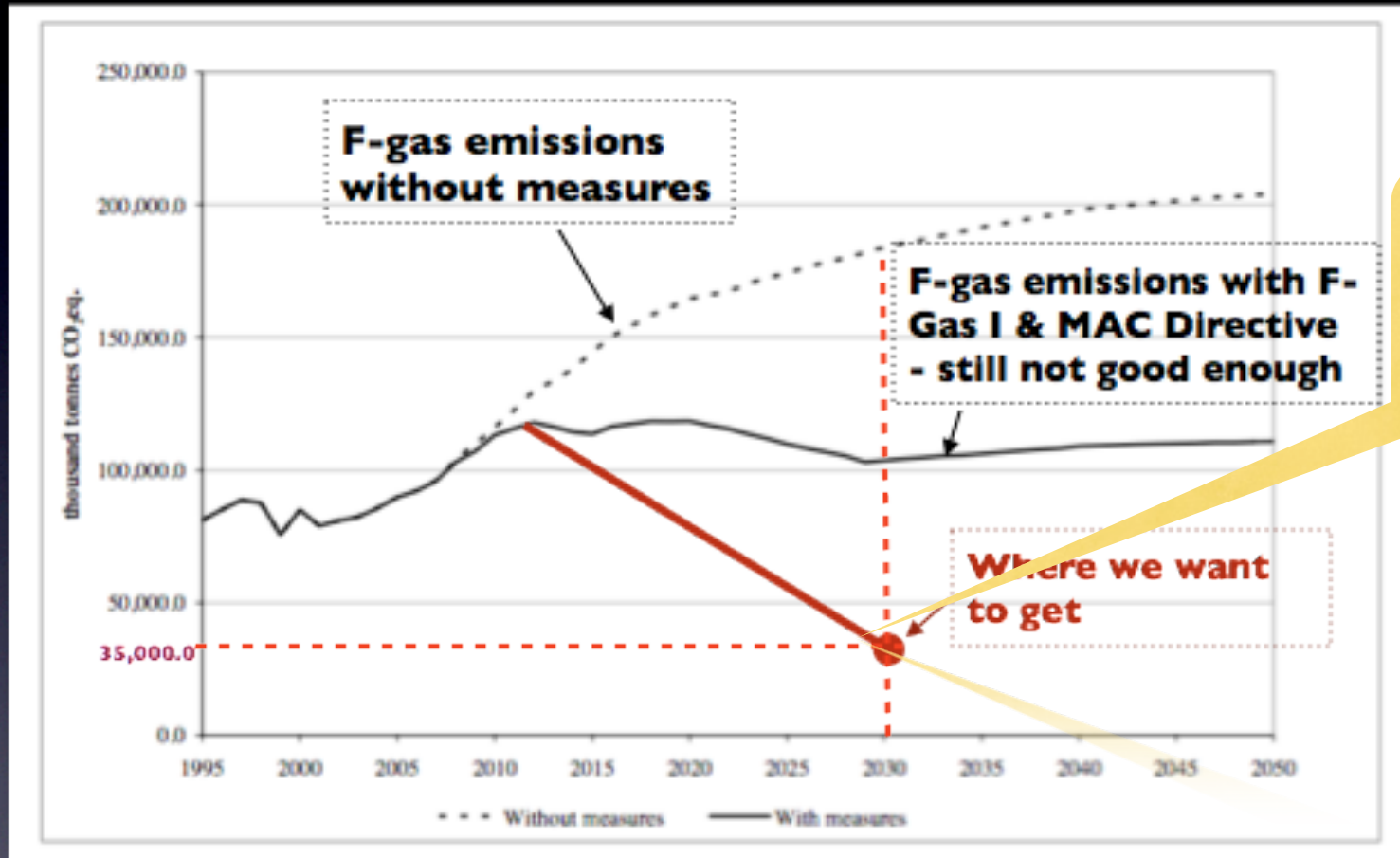


estimated 2,200 MMT CO2eq cumulative savings through 2020

5050

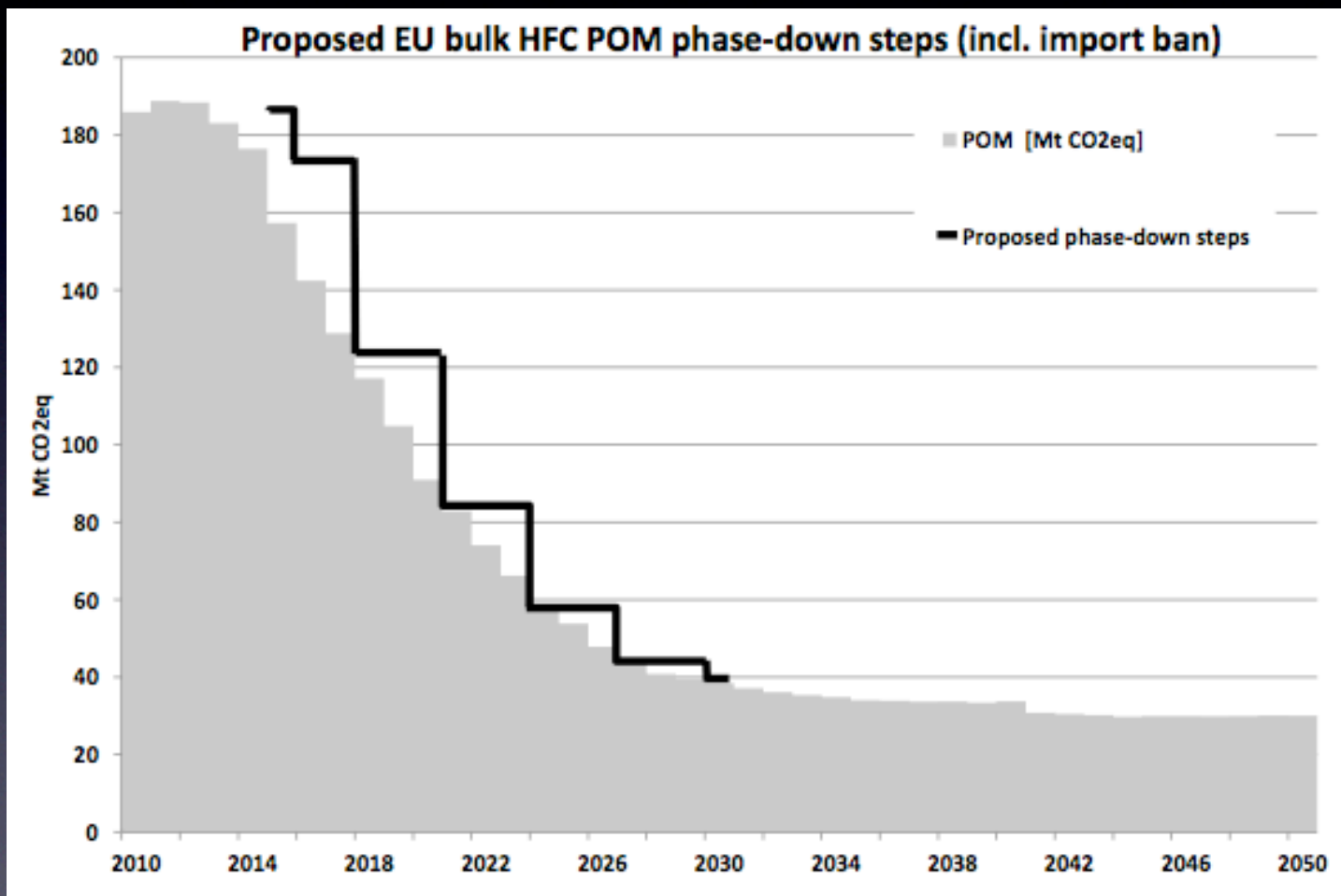
**Source:** Proposed amendment to the Montreal Protocol submitted jointly by Canada, Mexico and the United States of America (UNEP/OzL.Pro.24/6)

# EU F-Gas Regulation proposal issued 7 Nov



**EU targets to cut yearly f-gas emissions by two-thirds by 2030**


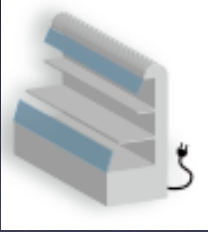
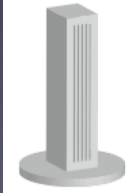
# EU proposal: 79% HFC phase-down by 2030 in CO<sub>2</sub>eq



2010 2014 2018 2022 2026 2030 2034 2038 2042 2046 2050

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# HFC bans in EU proposal

| <b>Type of equipment</b>  | <b>Ban applies as of</b>   |
|---|--|
| 1. Domestic refrigeration                                        | January 2015 for HFCs with GWP $\geq$ 150  |
| 2. Hermetically sealed refrigeration systems for commercial use  | January 2017 if GWP $\geq$ 2,500<br>January 2020 for HFCs with $150 \leq$ GWP $\leq$ 2,500 |
| 3. Movable air conditioning systems (hermetically-sealed)      | January 2020 for HFCs with GWP $\geq$ 150  |

# HFC bans in amended Swiss F-Gas policy (7 Nov)

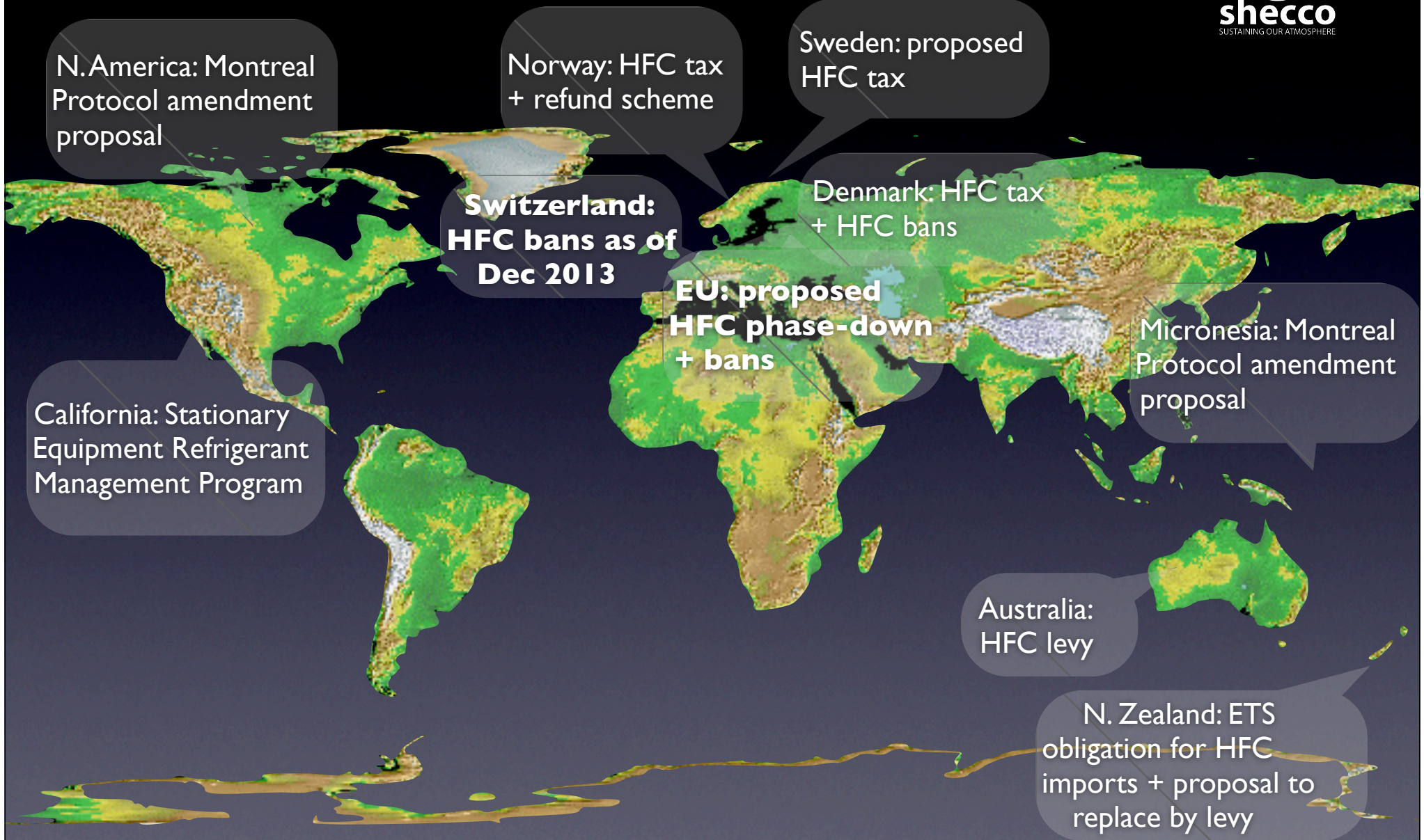


| HFC bans in Switzerland as of Dec. 2013  | Proposed HFC bans in EU F-Gas Regulation                                      |
|--|---|
| <p><b>1. Air conditioning</b> systems for:</p> <ul style="list-style-type: none"> <li>•cooling with a cooling capacity of more than 600 kW,</li> <li>•cooling &amp; heating by means of VRF or VRV systems with more than 40 evaporator units and cooling capacity &gt; 80 kW,</li> <li>•for local and district heating by heat pump with cooling capacity &gt; 600 kW;</li> </ul> | <p><b>1. Domestic refrigeration</b></p>                                       |
| <p><b>2. Commercial refrigeration</b> systems for:</p> <ul style="list-style-type: none"> <li>•minus cooling with a cooling capacity &gt; 30 kW,</li> <li>•plus cooling with cooling capacity &gt; 40 kW;</li> <li>•combined plus &amp; minus cooling with a cooling capacity &gt; 40 kW for plus cooling and 8 kW for minus cooling;</li> </ul>                                   | <p><b>2. Hermetically sealed refrigeration systems for commercial use</b></p> |
| <p><b>3. Industrial refrigeration</b> systems for:</p> <ul style="list-style-type: none"> <li>•deep freezing with a cooling capacity &gt; 100 kW,</li> <li>•all other applications with a cooling capacity &gt; 400 kW;</li> </ul>   | <p><b>3. Movable air conditioning</b> systems (hermetically-sealed)</p>       |
| <p><b>4. Ice rinks</b>, except for temporary systems</p>   |   |

# ATMOsphere Europe 2012 Report



Available at [www.atmo.org/europe2012](http://www.atmo.org/europe2012)



N. America: Montreal Protocol amendment proposal

Norway: HFC tax + refund scheme

Sweden: proposed HFC tax

Denmark: HFC tax + HFC bans

Switzerland: HFC bans as of Dec 2013

EU: proposed HFC phase-down + bans

Micronesia: Montreal Protocol amendment proposal

California: Stationary Equipment Refrigerant Management Program

Australia: HFC levy

N. Zealand: ETS obligation for HFC imports + proposal to replace by levy





thank you