



WMO

# INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



UNEP

INTERGOVERNMENTAL PANEL  
ON CLIMATE CHANGE

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## **IPCC SPECIAL REPORT:**

### **SAFEGUARDING THE OZONE LAYER AND THE GLOBAL CLIMATE SYSTEM: ISSUES RELATED TO HYDROFLUOROCARBONS AND PERFLUOROCARBONS**

COMMENTS FROM SWEDEN ON THE DRAFT SUMMARY FOR POLICYMAKERS

*Subject: Comments-Sweden on IPCC/TEAP Special Report on Safeguarding the Ozone Layer and the Global Climate System*

**Chapter From Page From Line To Page To Line Comment**

SPM SPM-3 1 SPM-3 15 It should be clearly stated here whether the report takes into account emissions from some key sectors, e.g. magnesium and aluminium sectors.

SPM SPM-5 30 SPM-5 33 The text should be modified for easier reading.

SPM SPM-6 8 SPM-6 14 It should be clearly stated here whether the report takes into account emissions from some key sectors, e.g. magnesium and aluminium sectors.

SPM SPM-8 10 SPM-8 14 It is doubtful if synergetic aspects have been take into account here, especially for the 64 or so Large Marine Ecosystems (LME). The conclusion would benefit from being more cautious.

SPM SPM-9 32 SPM-10 18 Figure SPM-4, clarify clearly that an overall conclusion from the figure is that global emissions are of the order of 20 percent, e.g. from the refrigeration sector. While the figure identifies HFC-23 by product emissions, it does not identify the emissions from SF6 and PFC emissions.

SPM SPM-11 30 SPM-11 33 Quantify effect and importance of the HFC-23 release.

SPM SPM-11 41 SPM-11 47 Somewhat ambiguous statement. We propose deletion of the 2nd sentence in Line 42.

SPM SPM-13 24 SPM-13 27 The text gives an impression that "direct expansion" is a solution while in reality it is the problem. It would be preferable to have it stated as follows: "In full supermarket systems, up to 60% lower LCCP values can be obtained by improved containment, better system design enabling charge minimisation, or use of alternative refrigerants."

SPM SPM-13 29 SPM-13 33 The message here can be challenged. It is based on an assumption of 100% end of life recovery from a refrigeration (R-134) equipment. If it is ZERO recovery, the picture would change significantly. Chapter 4 indicates there is insignificant efficiency loss with R600a. Therefore there is little justification for continued use of R134a in such applications. We propose deletion of the paragraph. Alternatively a statement that captures the above sentiments.

SPM SPM-14 7 ii) Charge reduction (up to 20%); A very passive figure. We have systems with up to 80% reduction w.r.t. standard (e.g. 150 gm propane for a 5 kW cooling effect). We propose a range up to 80%.

SPM SPM-16 Table SPM-2 Regulations: Should state "Certification of companies' personnel..."

SPM SPM-16 Table SPM-2 Financial Incentives. Kyoto Prot. Mech., 2nd bullet: Remove word "Large" and should state "Point sources of HFCs, PFCs may be included..." including PFC as in line above for CDM.