

Interactive comment on “Perfluorocarbons in the global atmosphere: tetrafluoromethane, hexafluoroethane, and octafluoropropane” by J. Mühle et al.

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Supplement Page 2, lines 21-22 This is not strictly the case – we use annually reported anode effect data to derive PFC emissions using technology specific (and in the case of facilities that have measured their PFC emissions, facility specific coefficients). These are IPCC Tier 2 and Tier 3 methodologies, not Tier 1 application of emission factors to technology production. We then use average (median) emission factors within technologies to estimate emissions from non reporting facilities (representing around 40% production, mainly high performing PFPB).

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Supplement Page 2, lines 23-25 See J Marks comments (SC 1188) for suggested rewording.

Supplement Page 2, line 28 One can only assume constant Chinese EF as far back as mid 2000s, since when China has produced 100% of its aluminium using PFPB technology. Prior to this, the technology mix in China was more complex and without measurement/anode effect data, the best estimate would be to use global technology averages

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 6485, 2010.

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