

# Öko-Recherche

Büro für Umweltforschung und -beratung GmbH



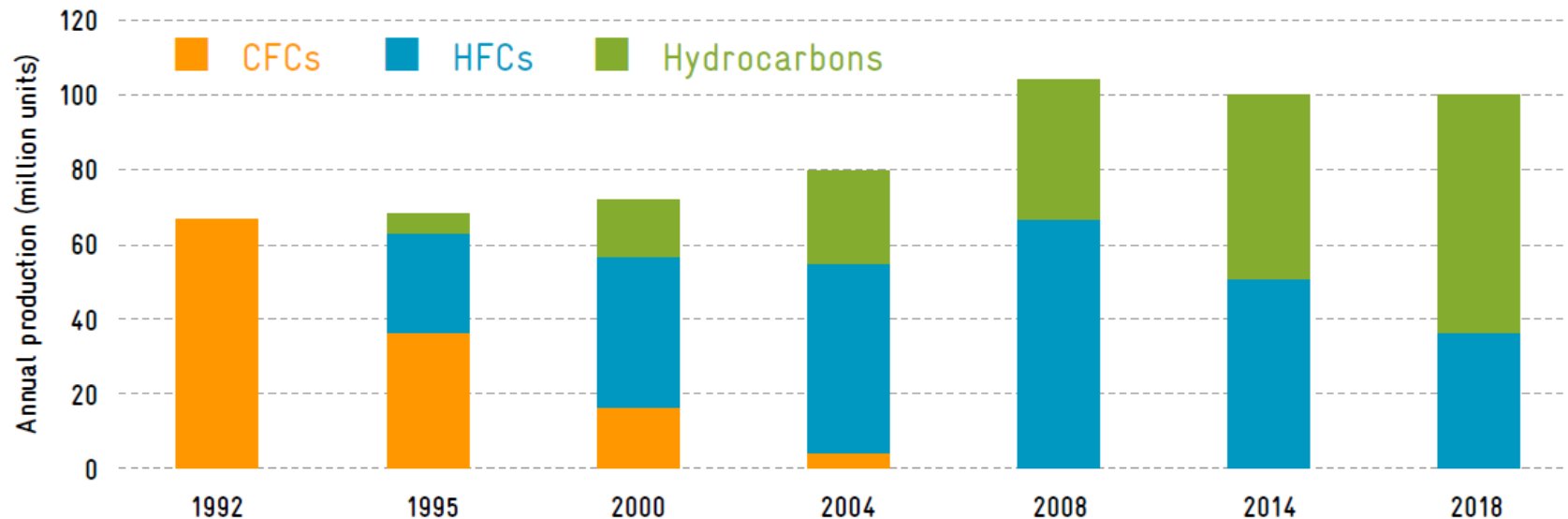
## Greenfreeze: 25 years later – a stock take

Barbara Gschrey



Side Event, Vienna, 12 July 2018

# Domestic refrigeration market: Global market penetration of Greenfreeze technology



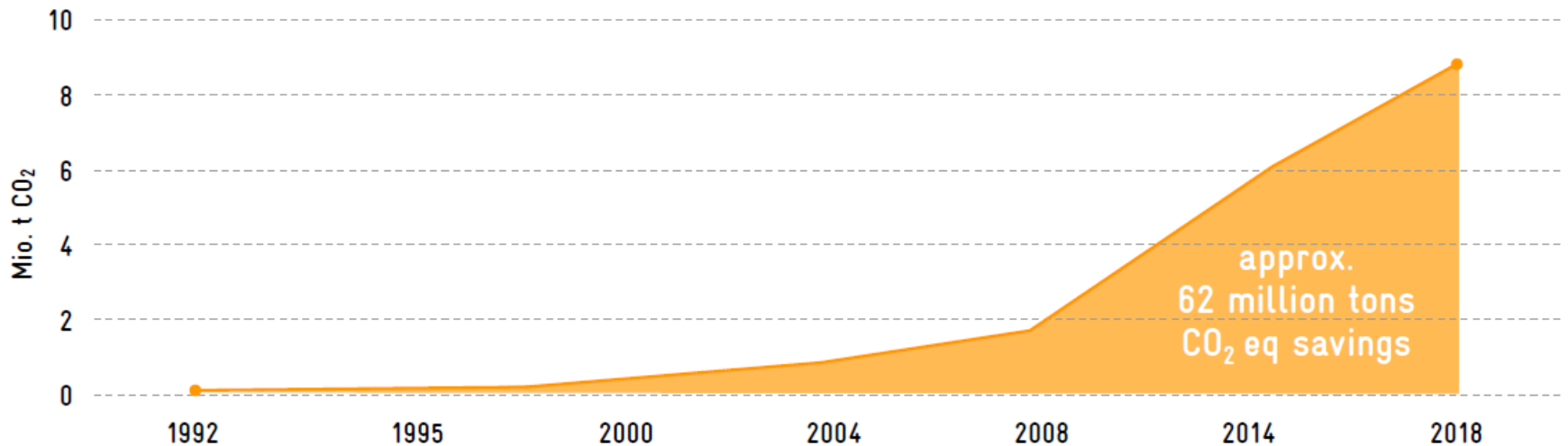
- Rapid market uptake of CFC- and HFC-free domestic fridges
- Global market share today ranges around 70% of annual production
- Further increase soon to come due to HFC phase down

# Domestic refrigeration market: The example of China

- Presentation of Greenfreeze at household appliance fair in **May 1993**.
- Organization of a technical seminar for the Chinese refrigeration producers on hydrocarbons by Greenpeace in cooperation with the German Federal Ministry for Economic Cooperation and Development (BMZ) in **May 1994**.
- **1994** first MLF hydrocarbon project: Conversion of refrigerator production at Haier. Initiated by the BMZ commissioned GTZ (now GIZ) programme Proklima, this project marked the first hydrocarbon technology transfer.



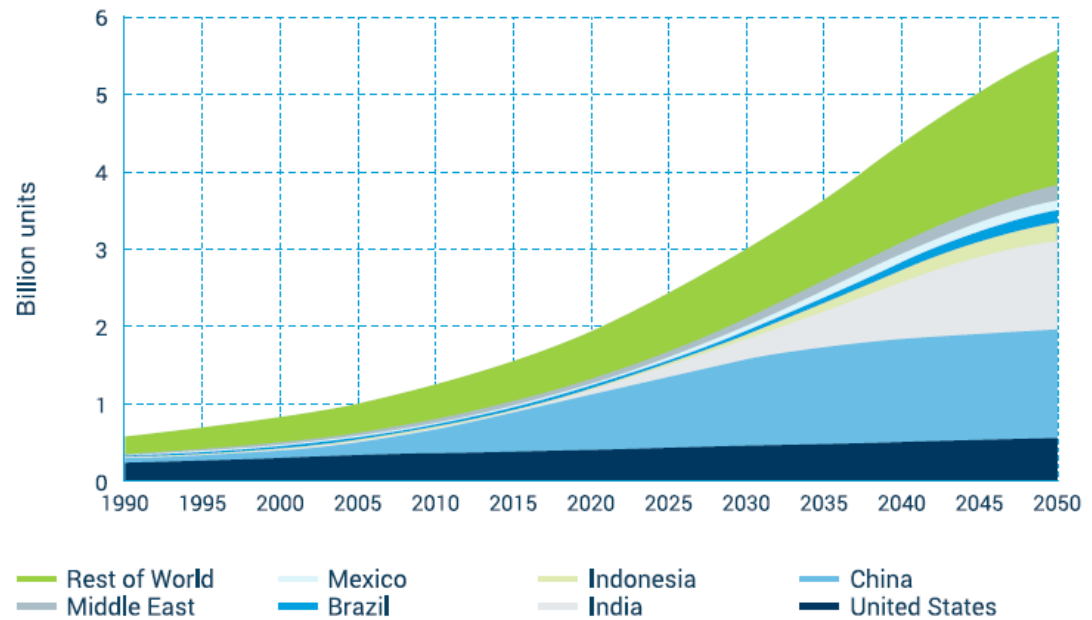
# Domestic refrigeration market: The global climate impact



- Emission reduction as compared to HFC-134a refrigerators
- Major reductions through avoided end-of-life emissions

# Air conditioner market: Status and outlook

- Enormous increase of global stock in the next decades expected
- Great potential for energy efficiency gains and emission reductions



Source: IEA

**Thank you very much for  
your attention!**

**Questions?**

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