

All the Green Pieces of the HFC Puzzle

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Greenpeace & GreenFreeze

40% of annual global fridge production



350 million units

All major European, Japanese and Chinese companies

New landscape

- **1989: Ozone Threat - 2009: Climate Danger**
- Same actors, different “hats”:
 - Chemical industry: HFCs & HFOs
 - End users : some proactive players
- Natural refrigerant (NR) solutions available across all sectors
- New political momentum
- Pro-NR Regulations

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New challenges

- **Key fronts:**
 - China, North America & EU reviewing regulations
 - Developing countries need to leapfrog HFCs
- **Business opportunities with NR:**
 - Potential to be global solution
 - Cost savings
 - Financial incentives

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Greenpeace says:

1. Phase-out of all HFCs by **2020**
2. Close cooperation between the **UNFCCC** & **Montreal Protocol (MP)**
3. **NO** to new generation of HFCs (HFOs)
4. **YES** to global commercialization of **NR**



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Politics

- **MP and UNFCCC roles**

Multilateral Fund (MLF) must take key first step -
presumption against HFCs

MP should help control HFCs once UNFCCC sets a phase-out date.

- **North American proposal (MP)**

Very weak. No action on HFCs until 2022.

- **Mauritius & Micronesia proposal (MP)**

Still not ambitious enough

- **EU (UNFCCC)**

Closest to Greenpeace position

BUT no specific roadmap

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Industry

- HFOs pose unnecessary risks
- HFOs are only a short-term fix and delay NR deployment
- NR are best available technology and long-term solution

New Greenpeace position paper - HFOs: the new generation of F-gases. Available at www.greenpeace.org/international/hfo-position-paper

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Greenpeace will:

- Support regulatory reform and early movers
- Connect business, policy and market efforts to ease transition for OEMs and users
- Advocate pro-NR legislation
- Push for best outcomes in MP/UNFCCC forums
- Raise awareness: Launch new report and video

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NR industry should:

- Work to promote natural refrigerants in political arena
- Continue to push “Natural Voice” petition
- Call for and contribute to a new joint IPCC/TEAP on HFC-free alternatives
- Share information on positive experiences with NR within refrigeration industry, end-users
- Focus on training, particularly in developing countries

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Call to action

- Time to act is now - industrialized and developing countries at a crossroads
- Develop NR forum - data, training & capacity
- Increase presence of NR industry in political arena

Let's make natural refrigerants happen

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More information

- Cool Technologies Report 2009:
www.greenpeace.org/usa/assets/binaries/cool-technology-report-2009
- HFO position paper:
www.greenpeace.org/international/hfo-position-paper
- Bangkok position paper (UNFCCC):
www.greenpeace.org/raw/content/international/press/reports/hfc-s-a-growing-threat-to-the.pdf
- Greenpeace F-gas campaign website:
www.greenpeace.org/f-gases

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Thank you!