

Clever cooling vs. global warming

Refrigerants, Naturally! is a global initiative of companies taking action to combat climate change by replacing fluorinated gases in refrigeration equipment with climate-friendly natural refrigerants.

**PEPSICO****Red Bull****Unilever**Supported by UNEP and **GREENPEACE**

Members

- The Coca-Cola Company
- PepsiCo
- Red Bull
- Unilever

Supporters

- UNEP
- Greenpeace

→ recognised as a „Partnership for Sustainable Development“
by the UN Commission on Sustainable Development



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History

In **2000** initial 'Refrigeration Summit' took place

In **2004** *Refrigerants, Naturally!* was formed with the support and encouragement of UNEP and Greenpeace

In **2005** US EPA's Climate Protection Award

In **2011** Roy Family Award for Environmental Partnership



Focus

Replacing F-gases

- only with **natural refrigerants**, including ammonia, carbon dioxide, and hydrocarbons
- particularly in **point-of-sale refrigeration equipment**

Coca-Cola



PEPSICO


Red Bull


Unilever



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Network

Efforts on overcoming barriers in order to accelerate the global transition to natural refrigerants and their use in energy and resource efficient refrigeration systems

- Sharing experiences and information within the network and externally
- R & D, testing of alternative technologies
- Communicating the business case for natural refrigerants



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Activities

- Showcasing alternative technologies
- Conferences and technical meetings
 - 2008 Gustav Lorentzen Conference
 - 2010 Climate Change Conference, Cancún
 - 2012 Bangkok Technology Conference, Meeting of the Parties, ATMOSphere Europe





Achievement

Member companies have collectively:

- placed more than **2.5 million** HFC-free refrigeration units
- avoided more than **1 million** tonnes of emissions in CO₂eq (based on the avoided HFC refrigerant emissions)



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PepsiCo

- **200,000** HFC-free units
- Propane (R290), Isobutane (R600a), and CO₂
- 63% (coolers)/54% (vending machines) less energy than 2004 baseline models

- HFC-free equipment in 30 countries with 100% natural refrigerants in Turkey since 2009 and Russia since 2011





The Coca-Cola Company

- 800,000 HFC-free units
- CO₂ as refrigerant of choice
- Improvements in energy efficiency

- 100% HFC-free new cold drink equipment purchases by 2015



Red Bull

- **313,000** HFC-free units (“ECO Cooler”)
- Isobutane (R600a) and propane (R290)
- Current eco-coolers use up to 45% less energy than previous models

- Procurement 100% hydrocarbon since 2010*

*where legally and technically feasible



Unilever

- 1.25 million HFC-free freezers
- Mostly propane (R290)
- Improvement in energy efficiency

- over 95% of yearly purchases in hydrocarbons



Refrigerants, Naturally! calls for an immediate HFC phase-down under the Montreal Protocol

[...] The Refrigerants, Naturally! member companies and Greenpeace do not consider HFCs (including HFOs) as suitable alternatives to HCFCs. They have implemented HFC-free technologies using natural refrigerants in developing and industrialised countries around the world.

If HFCs replace ozone-depleting gases, their contribution to global warming will lead to irreversible environmental consequences. It is in the direct interest of developing countries to choose long-term and sustainable replacements for HCFCs. Natural refrigerants offer long term solutions to meeting our cooling needs.

The Refrigerants, Naturally! member companies support the proposed amendments to include HFCs in the Montreal Protocol in cooperation with the UNFCCC. An international agreement to bring HFCs into the regulatory regime of the Montreal Protocol would be an important step towards a phase-down and eventual phase out of these substances. [...]

Read the full position statement at www.refrigerantsnaturally.com



Thank you very much for your attention

Claudia Becker Refrigerants, Naturally! Secretariat
claudia.becker@refrigerantsnaturally.org



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