

# Stratospheric Ozone Layer & Atmosphere Protection

MOPIA's Monthly E-Bulletin for our Subscription Members and Select Stakeholders



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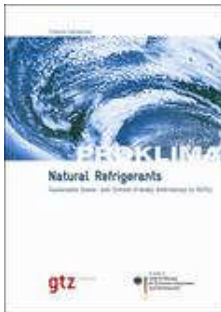
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## Advocates for Natural Refrigerants



GTZ (Gesellschaft für Technische Zusammenarbeit) Proklima, (a unique international cooperation enterprise commissioned by the German Federal Ministry for Economic Cooperation and Development) is encouraging the world to look at natural refrigerants.

Proklima's broad aim is to provide solutions for political, economic, ecological and social development. See: [www.gtz.de/proklima](http://www.gtz.de/proklima)

Proklima issued a new publication entitled **"Natural Refrigerants"** on July 8 in Bangkok at a side event during the 28<sup>th</sup> Open-ended Working Group Meeting. Their document attempts to provide information and guidance to decision makers primarily in developing countries, both in government and the private sector. It demonstrates which ozone and climate friendly alternatives to fluorinated refrigerants are available in the market and why and how they should be applied.

Persons concerned with the replacement of HCFCs through sustainable technologies will find a wealth of knowledge. The publication covers the main areas to be considered when planning for a HCFC phase out and conversion to natural refrigerants: policies and legislation regarding fluorinated refrigerant gases and appropriate alternatives, safety issues associated with flammable or toxic refrigerants, assessment of the performance of natural refrigerants in different applications and environments, actual examples, case studies and market developments.

The report highlights the potential options, characteristics and benefits of using hydrocarbons, ammonia and CO<sub>2</sub> in various air conditioning and refrigeration applications.

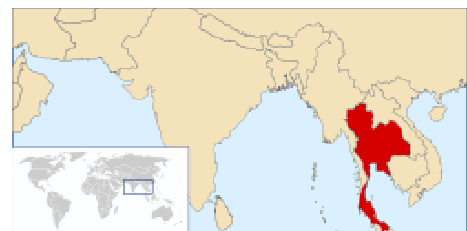
See the full report at:  
[www2.gtz.de/dokumente/bib/gtz2008-0359en-natural-refrigerants.pdf](http://www2.gtz.de/dokumente/bib/gtz2008-0359en-natural-refrigerants.pdf)

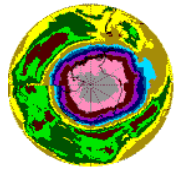
## 28th Montreal Protocol Open-ended Working Group Meeting

The 28<sup>th</sup> Meeting of the Open-ended Working Group of the Parties to the Montreal Protocol took place in Bangkok, Thailand July 7–11. Many issues were covered on the agenda (see below). Several of these will be highlighted in MOPIA's August E-Bulletin:

- (a) 2008 progress report of the Technology and Economic Assessment Panel;
- (b) Review of nominations for essential-use exemptions for 2009 and 2010;
- (c) Summary of scoping study addressing alternatives to hydrochlorofluorocarbons in the refrigeration and air conditioning sectors in Parties operating under paragraph 1 of Article 5 (decision XIX/8);
- (d) Study on projected regional imbalances in the availability of halon 1211, halon 1301 and halon 2402 and potential mechanisms for the improved prediction and mitigation of such imbalances in the future (decision XIX/16);
- (e) Review of and recommendations on process-agent use exemptions; on insignificant emissions associated with uses; and on process-agent uses that could be added to or deleted from table A of decision X/14 (decision XVII/6);
- (f) Final report on carbon tetrachloride emissions and opportunities for reductions (decision XVIII/10);
- (g) Report on n-propyl bromide emissions and alternatives, and opportunities for reductions (decision XVIII/11);
- (h) Review of nominations for critical-use exemptions for 2009 and 2010;
- (i) Other issues arising out of the Technology and Economic Assessment Panel reports.

Several side events hosted by UNEP, various non-government organizations and industry also took place. These included the launch of a new cartoon book on ozone depletion, climate change and HCFCs by UNEP DTIE – see: [www.unep.fr](http://www.unep.fr)





## Maytag Launches New Ultra High Efficiency Variable Speed Unit



Maytag recently launched its new variable speed compressor iQDrive 23-SEER (2-4 ton capacity) split air conditioner. The unit uses an inverter-driven rotary compressor that provides fully variable operation. The unit operates with R-410a refrigerant, a blend of HFC 32 and 125. R-410a is a global warming substance and is controlled in Manitoba and many other jurisdictions.

See: [www.maytagvac.com/M1000Sacah23.asp](http://www.maytagvac.com/M1000Sacah23.asp)

## Charges Laid

Two refrigeration engineers have been convicted and fined for a reckless discharge of an ozone depleting substance in New Zealand.

Two men were convicted and fined plus court costs in Auckland's District Court. The prosecution was brought under the Ozone Layer Protection Act 1996. The court was told the two men were repairing a drink chiller at a Service Station in September 2007. Part of the repairs involved cleaning a blocked condenser and while they were doing this an ozone depleting substance (chlorodifluoromethane HCFC-22) was discharged. The discharge was seen by a member of the public with some knowledge of the refrigeration industry. This person warned the engineers that it was a hazardous substance they were letting off, however they didn't take much notice of this warning. The incident was later reported to the Ministry which administers the Act. The Ministry director noted the protection of the ozone layer is an important priority. All HCFCs will be completely phased out under the Montreal Protocol. "Until then permit holders are still allowed to use these substances, however users need to observe best practice when handling any ODS". This prosecution is a strong reminder to the refrigeration servicing industry to be responsible.

[www.nzherald.co.nz/section/1/story.cfm?c\\_id=1&objectid=10517279](http://www.nzherald.co.nz/section/1/story.cfm?c_id=1&objectid=10517279)

## MOPIA in The Pas, Flin Flon and Thompson July 23-24



MOPIA will be hosting an ozone program outreach awareness session in The Pas, Flin Flon and Thompson on July 23 and 24<sup>th</sup>.

Plan to attend one of the free one-one half hour sessions by contacting MOPIA to register.

Wed. July 23 - The Pas: 8:30 am Super 8 Motel

Wed. July 23 - Flin Flon: 12 (noon) Library on Main

Thurs. July 24 - Thompson: 8:30 am Country Inn & Suites

## Upcoming



**July**  
23-24

MOPIA Program Awareness Session  
The Pas, Flin Flon and Thompson

**August**  
21-24

HRAI's 40<sup>th</sup> Annual Meeting  
[www.hrai.ca](http://www.hrai.ca)

**September**  
16

International Ozone Day  
[www.unep.org/ozone](http://www.unep.org/ozone)

**October**  
15-17

"Chillventa" International Trade Fair  
Refrigeration, Air Conditioning and  
Ventilation, Heat Pumps  
[www.chillventa.de](http://www.chillventa.de)



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