

natural refrigerants

5-7 November 2012 in Brussels

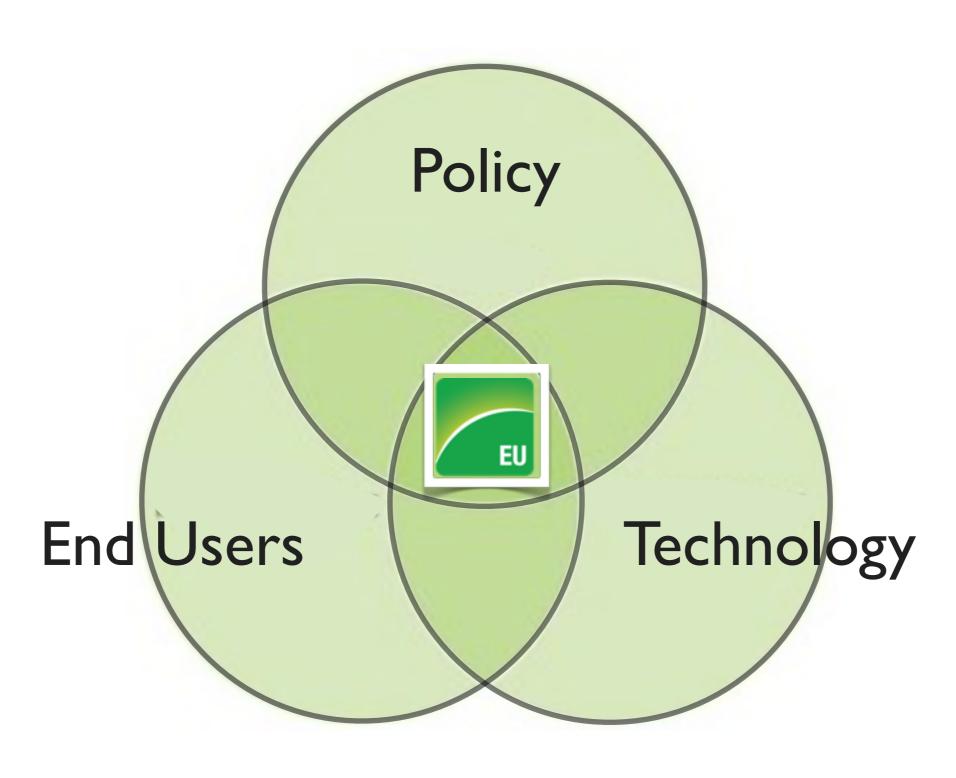


WELCOME SPEECH

by Marc Chasserot, Chairman, ATMOsphere Europe 2012 Managing Director, shecco



Why ATMOsphere?







Market Trends

verified: 1,331 transcritical CO₂

stores by end-2011 for Europe

estimated: 1600+ CO₂ supermarkets by end-2012





Dealing with Emissions

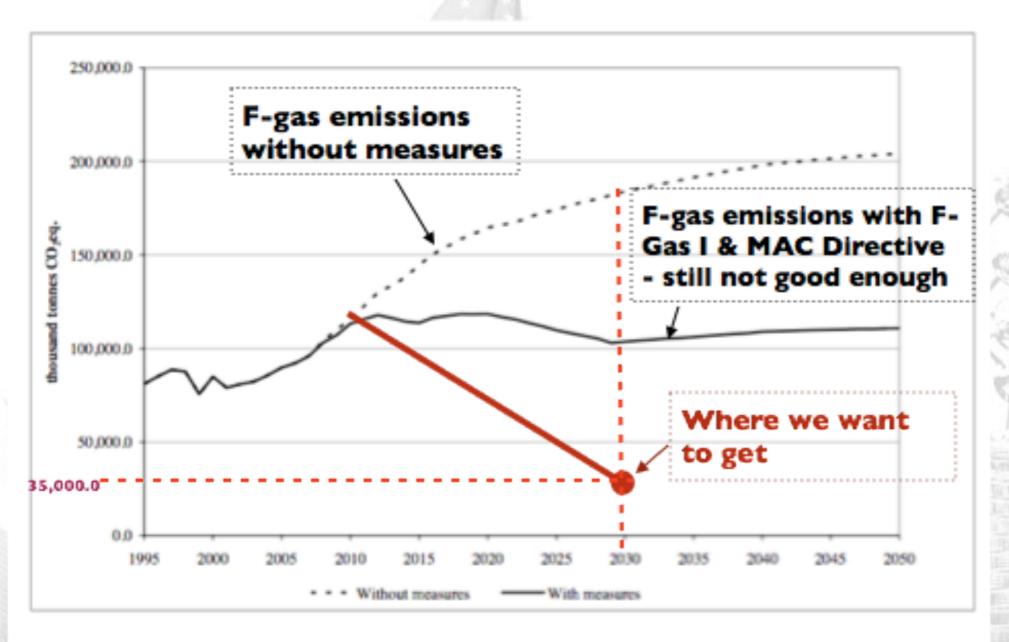


Figure 1: Projections of F-gas emissions in the EU without and with the measures in the F-gas Regulation and the MAC Directive



new EU F Gas Regulation





Why ATMO Europe 2012?

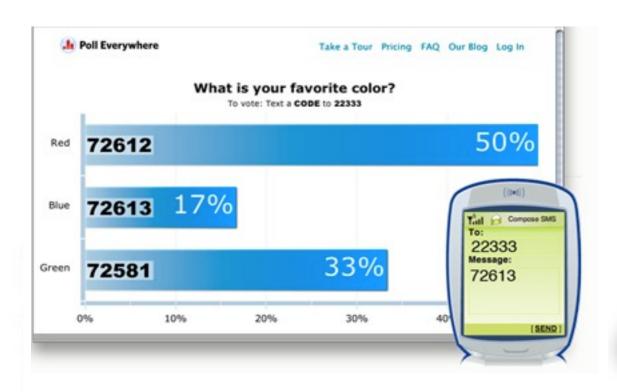




Interactive live polling

Participate in the interactive polling when questions appear To answer, simply choose from the following options;

Text to +447624806527 **OR** online at www.PollEV.com/ATMO









Time for a question

Which element of the new <u>draft</u> F-Gas Regulation is most needed?

- 1) 79% HFC phase-down target by 2030 in CO2eq
- 2) Bans on HFCs in new refrigeration and movable AC equipment
- 3) A ban on servicing refrigeration equipment with very high-GWP (> 2,150) HFCs
- 4) A ban on pre-charging of non hermetically-sealed equipment
- 5) Training requirements for handling f-gases and alternatives
- 6) Other









A United Technologies Company





















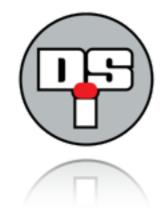












































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Tuesday, 6 November | morning

	6 NOVEMBER 2012
08:00	Registration and Welcome coffee
09:15	Marc Chasserot, shecco, Welcome speech and introduction
	Andy Pearson, President of the Institute of Refrigeration (IOR UK), Innovation in Refrigeration
	Franziska Menten, shecco, ATMOsphere Methodology and networking
	POLICY SESSION: F-GAS REGULATION AND ECODESIGN
10:00	Chair: Marc Chasserot, shecco
	Connie Hedegaard, European Commissioner for Climate Action
10:30	Coffee and Networking break - offered by Danfoss
11:00	Chair: Arne Richters, shecco
	Bente Tranholm-Schwarz, European Commission (DG Clima), New EU F-Gas Regulation – Coming Soon
	Katja Becken, German Federal Environment Agency, Options to reduce F-Gas emissions (SRAC)
	Mikkel Soerensen, Danish Environmental Protection Agency, Lessons learned from phasing out HFCs in Denmark
	Blaise Horisberger, Swiss Federal Office for the Environment, First achievements and strengthening of the Swiss F-Gas regulation
	Ugo Miretti, European Commission (DG Enterprise), Ecodesign Directive & Energy Labelling Directive State of Play
	Q&A
12:30	Networking Lunch - offered by Mayekawa
	DOLER ON THE



Tuesday, 6 November | afternoon

	TECHNOLOGY CASE STUDIES	
14:00	Chair: Dave Pearson, Star Refrigeration	
	Jan Boone, Mayekawa, Natural Refrigerants in Different Industrial Heat Pump plants in Norway	
	George Khoury, Sanden, Development of a high temperature CO ₂ Heat Pump for space heating	
	Alexander Cohr Pachai, Johnson Controls, Refrigeration and air-conditioning in warm Mediterranean climates	
	J. Michael Griffin, Carrier Transicold, Efficient Sustainable Container Reefer Applications using CO ₂	
	Bart Ezendam, Thermo King, Transport refrigeration system using CO ₂	
	Q&A and panel discussion	
16:00	Coffee and Networking break - offered by Carel	
74.74	CAREL	



Tuesday, 6 November | evening

10. 1		PARALLEL	.0100.0.10			
16:30	Participants will be able to chose between different sessions, including:					
	FUE O B.L.					
	EU F-Gas Debate Involving key stakeholders	Market innovations session	Business networking			
	Chair: Sonja van Renssen, journalist	Chair: Marc Chasserot, shecco	(3 separate meeting rooms for face to face			
	- Bas Eickhout, Member of the European	Presentation by:	meetings)			
	Parliament	 Jan Hinrichs, Ixetic, CO compressors for mobile air 				
	- Clare Perry, EIA	conditioning and light commercial refrigeration				
	- Stephane Arditi, EEB					
	- Thomas Nowak, EHPA	 Christian Schmälzle, Obrist, 100 kW CO₂ 				
	- Andrea Voigt, EPEE	Or Compressor for Commerci Refrigeration	ial Or			
	- Daniel Colbourne, Re-phridge	- Marion Geiss, GIZ Proklima, Demonstrating				
	- Barbara	technology cooperation worldwide: Examples of				
	Gschrey, Öko-Recherche	green cooling in air-conditioning and				
		refrigeration				
		- Marc				
		Chasserot, shecco, How make the world's largest				
		online community for nature refrigerants work for you	ral			
18:00	End of Day 1 - Free Time					
19:30	Reception					
20:00	Industry networking dinner, offered by Carrier					
	Carrier					
	Dinner Speech by Matti Kuivalain	non Corrier and Jean Michael	Flaure Correlaux			





Wednesday, 7 November | morning

08:30 Welcome Coffee **MARKET OVERVIEW FOR EUROPE** 09:15 Chair: Nina Masson, shecco Nina Masson, shecco, Natural Refrigerant market trends in Europe Lothar Serwas and Christoph Brouwers, Carrier, Market trends & developments for CO2 in commercial refrigeration in Europe Torben Hansen, Advansor, Market Overview: Commercial / retail refrigeration Jan Boone, Mayekawa, Market overview Q&A and panel discussion Coffee and Networking break offered by Jo 10:30 **END USER: FOOD RETAIL** 11:00 Chair: Robert Arthur, bolyn ltd., formerly Marks & Spencer Philippe H. Heymans, Delhaize Europe Emma Coles, Royal Ahold Group Dr Georg Weinhofer, COOP Switzerland Knut Lutnæs, COOP Norway John Skelton, Sainsbury's Supermarkets Limited Q&A and panel discussion 12:30 Networking Lunch - offered by Advansor **ADVANSOR**



Wednesday, 7 November | afternoon

	REFRIGERANTS, NATURALLY! SESSION
14:00	Chair: The Rt. Hon John Gummer, Lord Deben, former UK Environment Minister
	Antoine Azar, The Coca-Cola Company
	René van Gerwen, Unilever
	Jürgen Brenneis, Red Bull
	Ezra Clark, UNEP
	Q&A and panel discussion
15:30	Coffee and Networking break offered by Thermo King
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Wednesday, 7 November | afternoon

	TECHNOLOGY CASE STUDIES
16:00	Chair: Dave Pearson, Star Refrigeration
	Torben Hansen, Advansor, Transcritical CO ₂ cooling and freezing system for Norwegian ice cream manufacturer
	Torben Funder-Kristensen, Danfoss, Refrigeration and heat recovery with CO ₂ in food retail stores
	Diego Malimpensa, Carel, Sustainability of CO ₂ technology and the role of control systems
	Jonas Schönenberger, Frigo Consulting, Efficiency analysis and comparison of innovative CO ₂ refrigeration systems
	Sergio Girotto, enEx, CO ₂ refrigeration in warm climates, efficiency improvement
	Samer Sawalha, Royal Institute of Sweden (KTH), Field measurements of supermarket refrigeration systems: CO ₂ transcritic vs. HFC conventional
	Q&A and panel discussion
17:45	Conclusions & farewell drink
18:00	End of ATMOsphere Europe 2012



Solutions for Europe

natural refrigerants