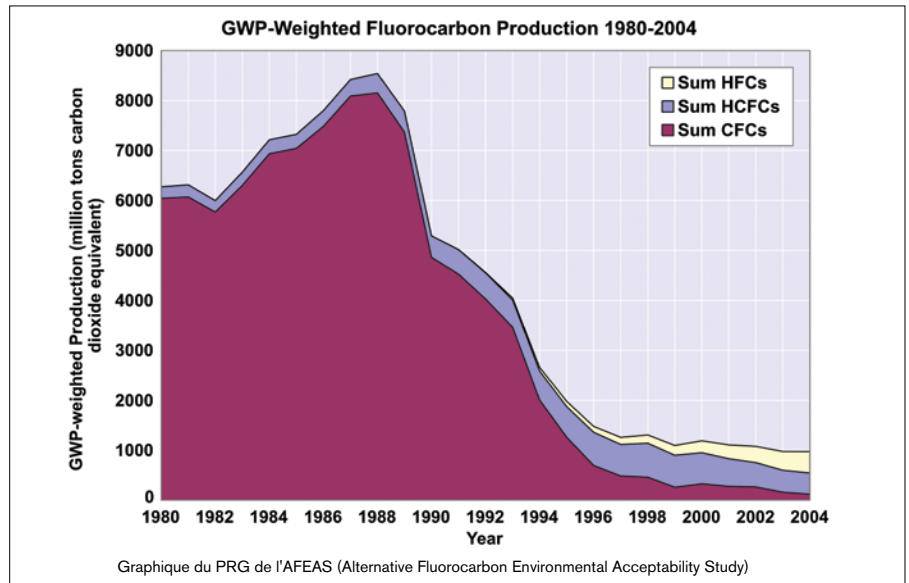


HFCs...An Energy Efficient Solution

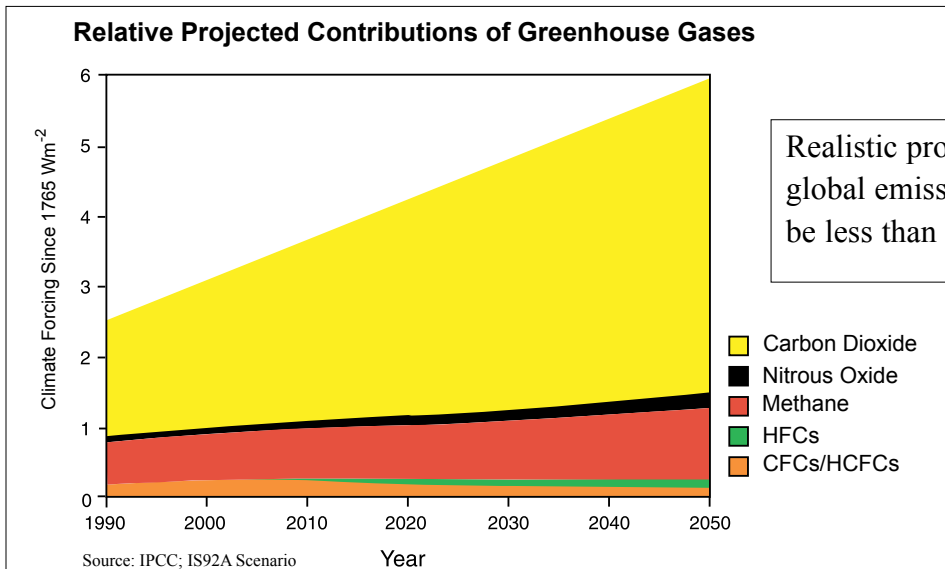
Hydrofluorocarbons (HFCs) are viable and proven solutions to the problems addressed by the Montreal Protocol and Kyoto Protocol processes. They are energy efficient, low-in-toxicity, cost effective and can be used safely. Governments and industry support their global use in applications which meet important environmental and societal needs, including metered dose inhalers, insulation, refrigeration, air conditioning, technical aerosols, and fire extinguishers.



HFCs are part of the Global Climate Change SOLUTION

The Montreal Protocol's substitution for ozone-depleting chlorofluorocarbons (CFCs) has achieved a dual impact by also reducing the greenhouse gas emission impact. According to a National Academy of Science Proceedings (March 8, 2007), the Montreal Protocol will have reduced the net global warming potential-weighted emissions from ozone-depleting substances in 2010 by 5-6 times the reduction target of the first commitment period of the Kyoto Protocol (2008-2012). Developing countries can obtain similar results with substitution to HFCs.

Use of HFCs reduces total greenhouse gas contributions compared to CFCs. Current technology has reduced fluorocarbon greenhouse gas contributions by over 80% since 1990. Clearly, a true scientific representation indicates that HFCs contribute far less potential impact to climate change than their precursors. Early substitution, particularly in developing countries, will contribute a favorable impact to the Kyoto Protocol.

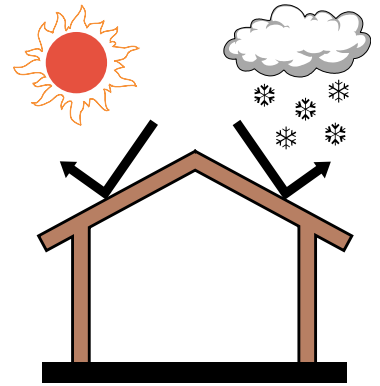


Realistic projections show that global emissions of HFCs will be less than 3% in 2050.

HFCs provide significant energy efficiency improvement

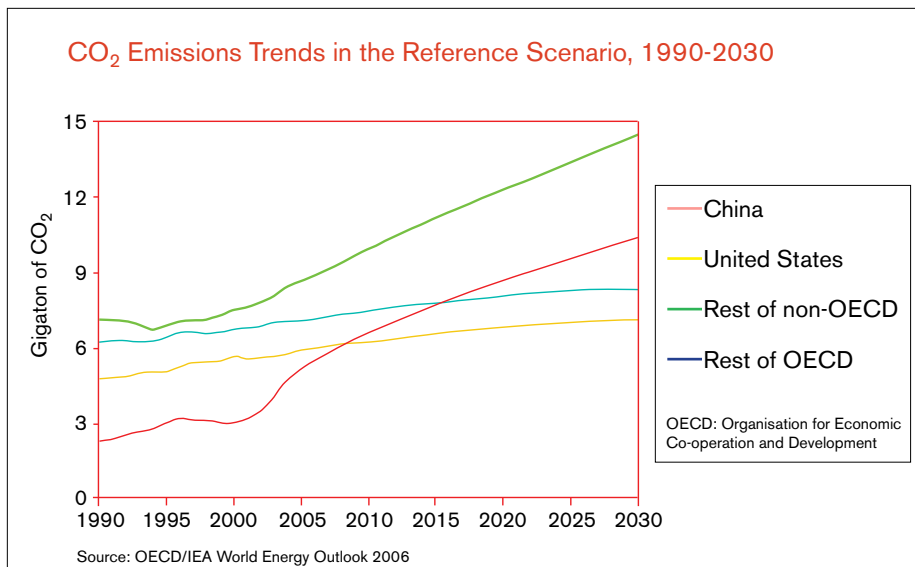
Integrating HFCs and Energy Efficiency

Various analyses indicate that HFCs reduce energy consumption in many applications. Savings are seen in other air conditioning and refrigeration applications and in insulation products. Specifically, HFC blown foam would provide energy savings up to 15% (The Influence of Global Environmental Factors on the Selection of Polyurethane and Other Building Insulation Materials, P. Ashford, 1997).



Energy Efficiency

Global growth in energy-related greenhouse gas emissions shows the critical requirement for energy efficiency to offset some of the growth. An example is seen when comparing HFC use in stationary air conditioning compared with carbon dioxide. At typical operating conditions, HFCs achieve a 20-30% efficiency advantage over carbon dioxide systems.



HFCs have been adopted by industry because they are the overall best choice for many applications.

Governments should encourage responsible expanded use of HFCs.

The Alliance for Responsible Atmospheric Policy is a leading industry voice that coordinates industry participation in the development of reasonable international and U.S. government policies regarding ozone protection and global climate change.



The Alliance
for Responsible Atmospheric Policy

The Alliance for Responsible Atmospheric Policy
2111 Wilson Blvd., 8th Floor · Arlington, VA 22201
Phone : (703) 243-0344 · Fax: (703) 243-2874
E-mail: alliance98@aol.com

