



GREEN NEW DEAL NATURAL REFRIGERANTS

ATMOSPHERE 2009

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Why UNSG visits NO-MAN'S LAND

when there are urgent
conflicts
ON CROWDED LAND?





**Why UNSG visits
no-man land
near to the most
rich and peaceful countries**

**when there are urgent poverty
and war like situations
elsewhere?**





Al Gore and IPCC win
2007 Nobel **Peace** Prize



**Why PEACE
Prize for the
ENVIRONMENT
Cause**



INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



**“IPCC expresses
surprise and gratitude
at announcement”**



70 days from now...

**... World Leaders agreement on
Climate Change ????**



**... CFCs and Halons assigned to the
history books!!!!**

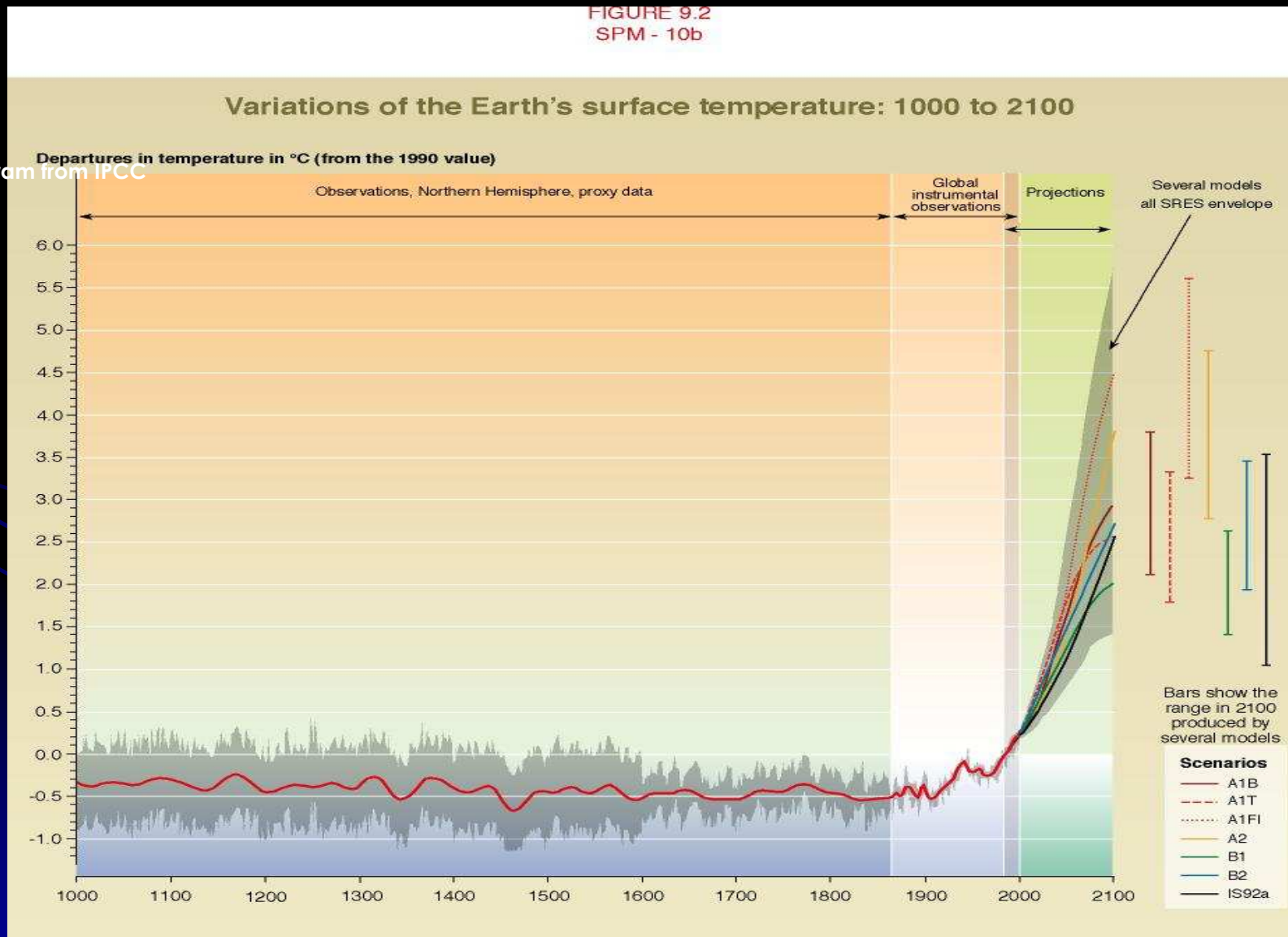


Still Taking Aim....



FIGURE 9.2
SPM - 10b

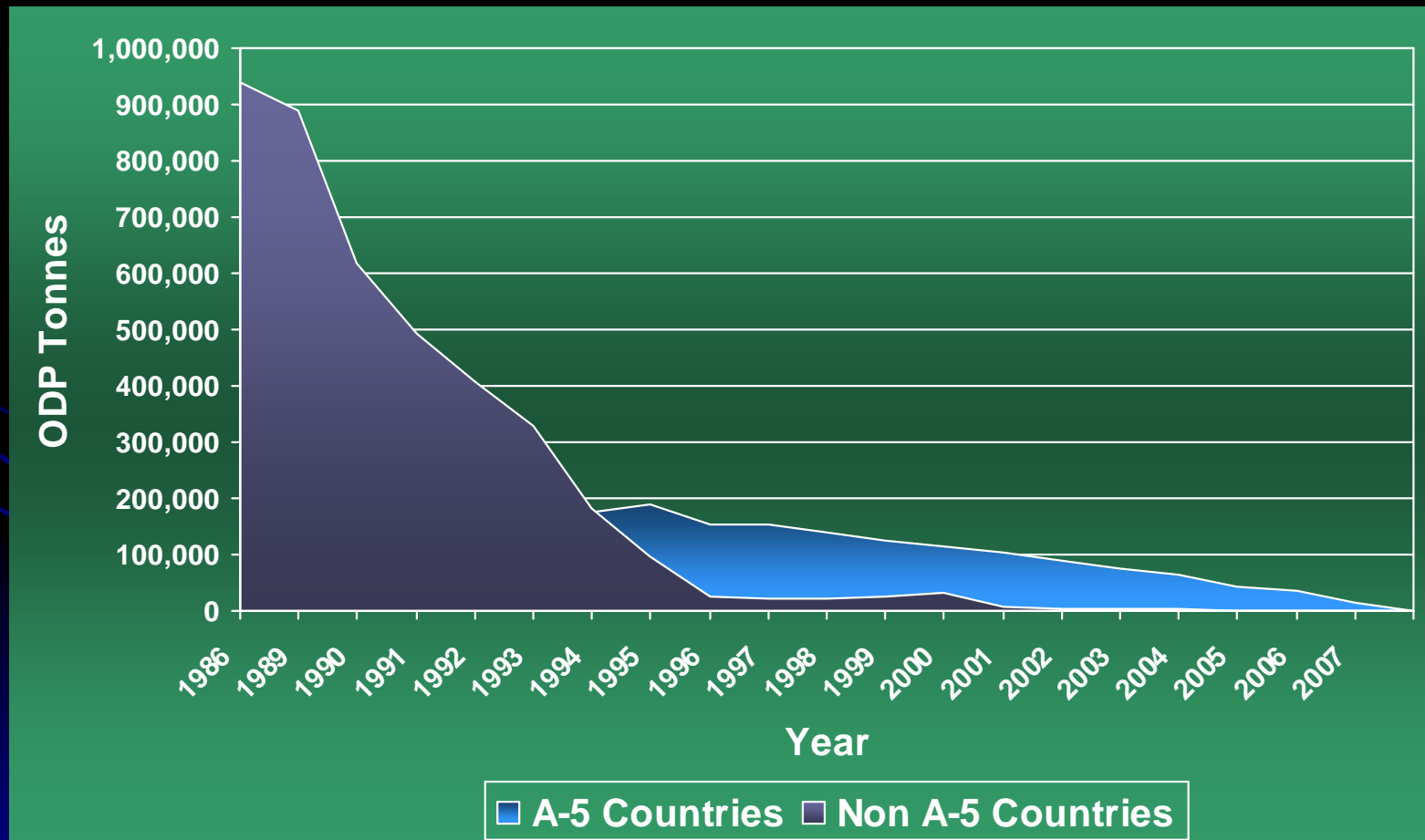
Diagram from IPCC



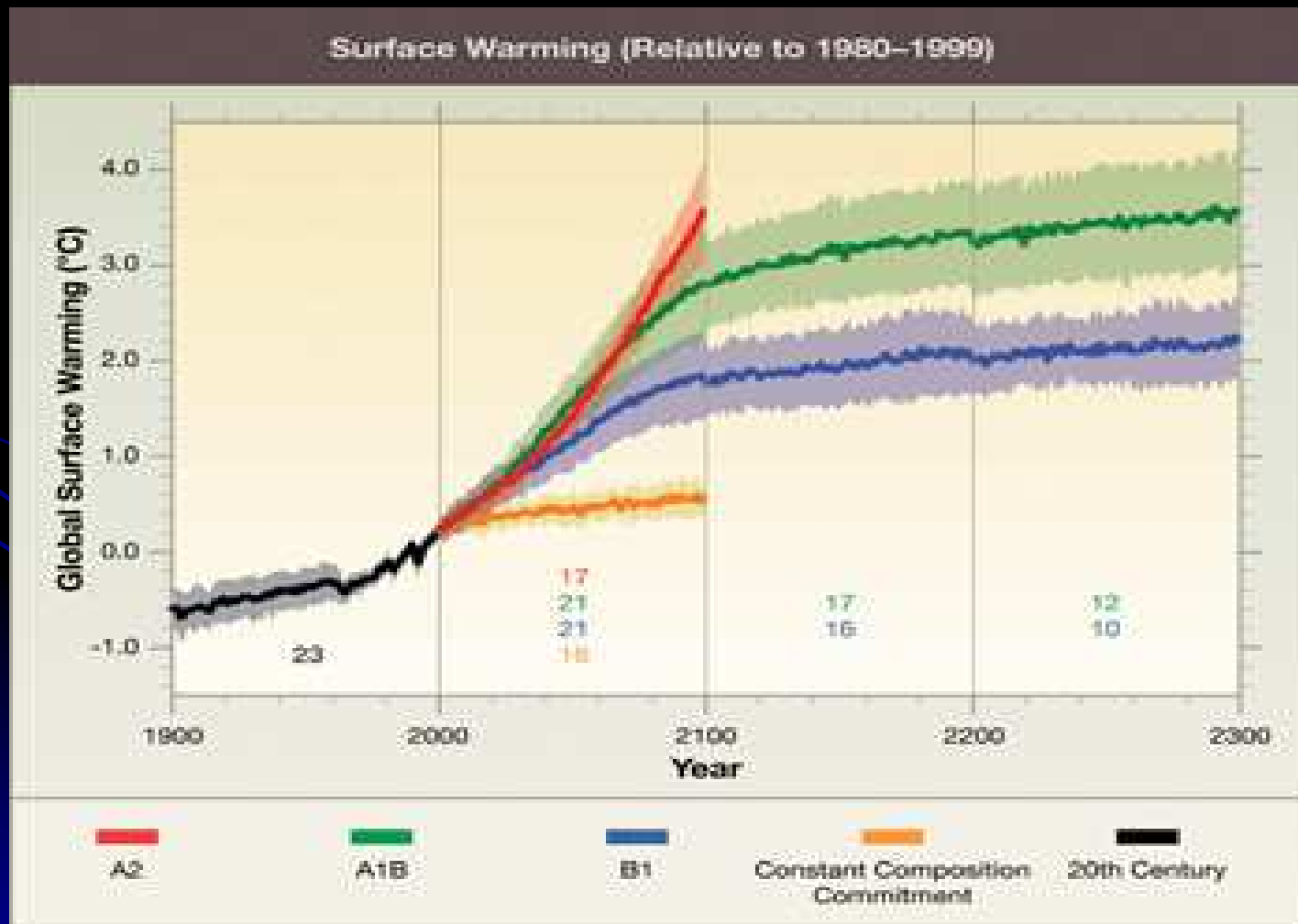
Target Achieved.....



CFC Consumption in A-5 and Non A-5 Countries

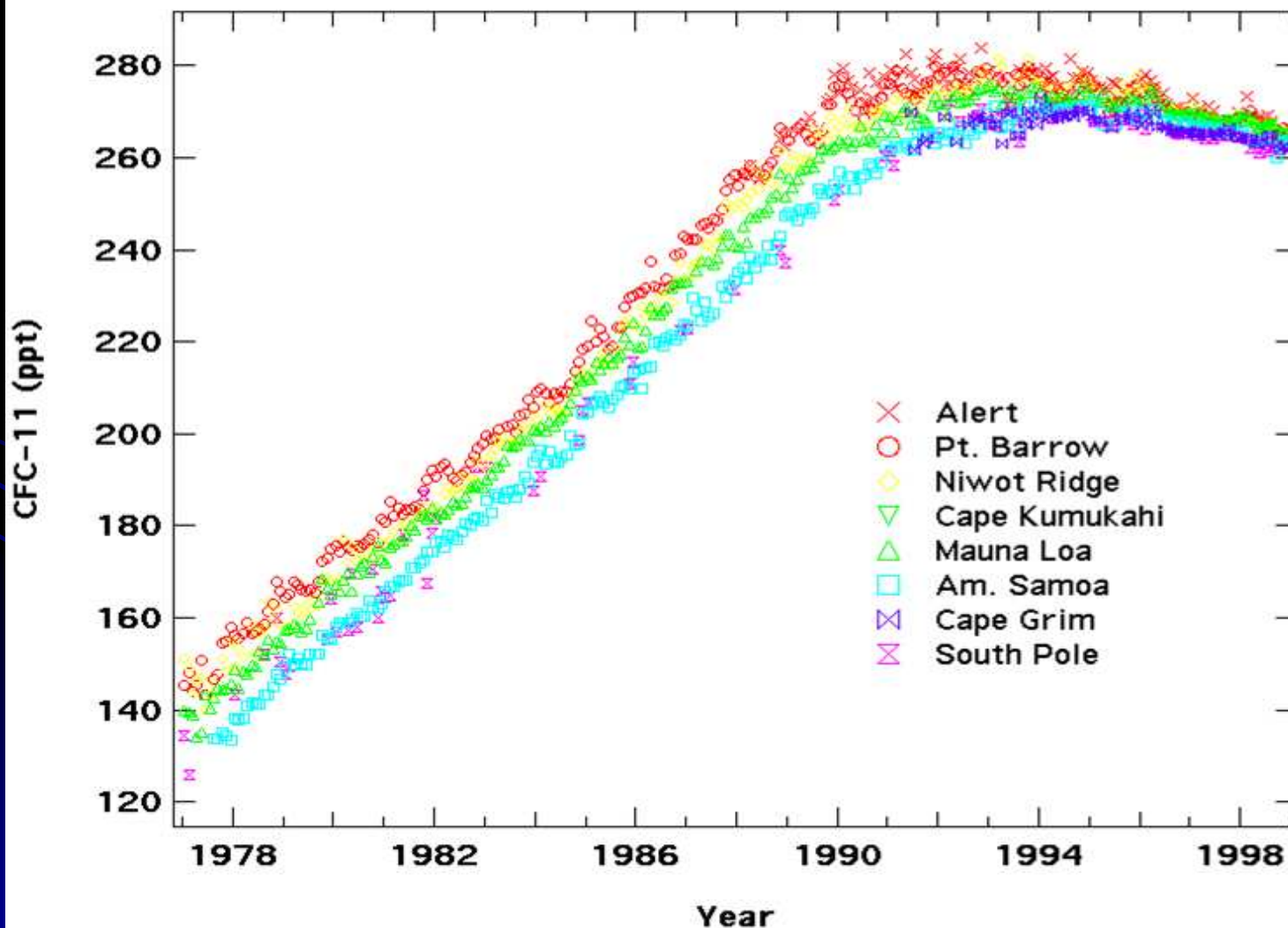


Changing the Goal Posts...



Goal Scored

CFCs in Stratosphere

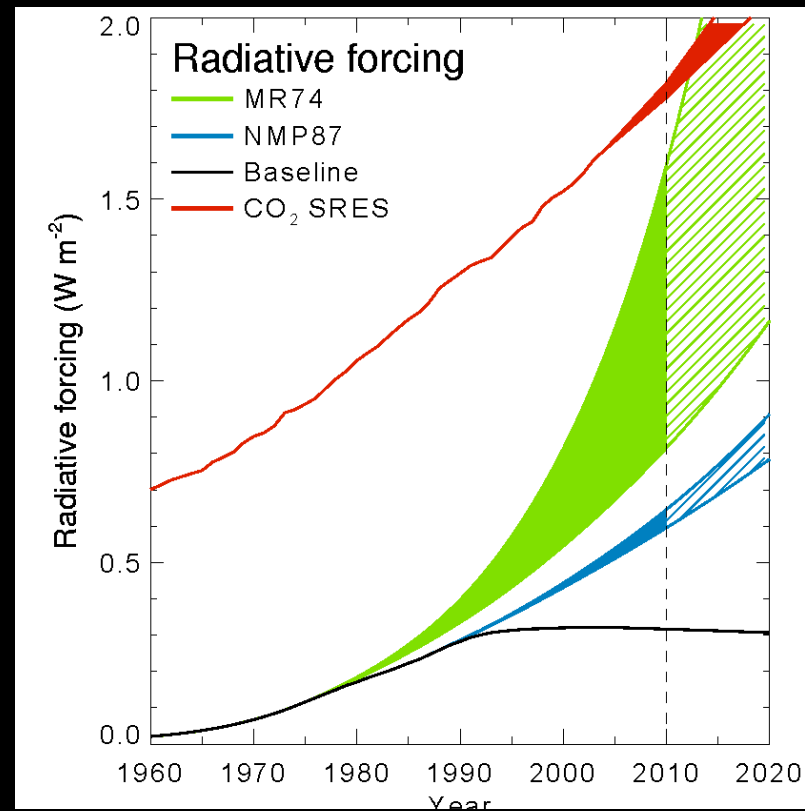
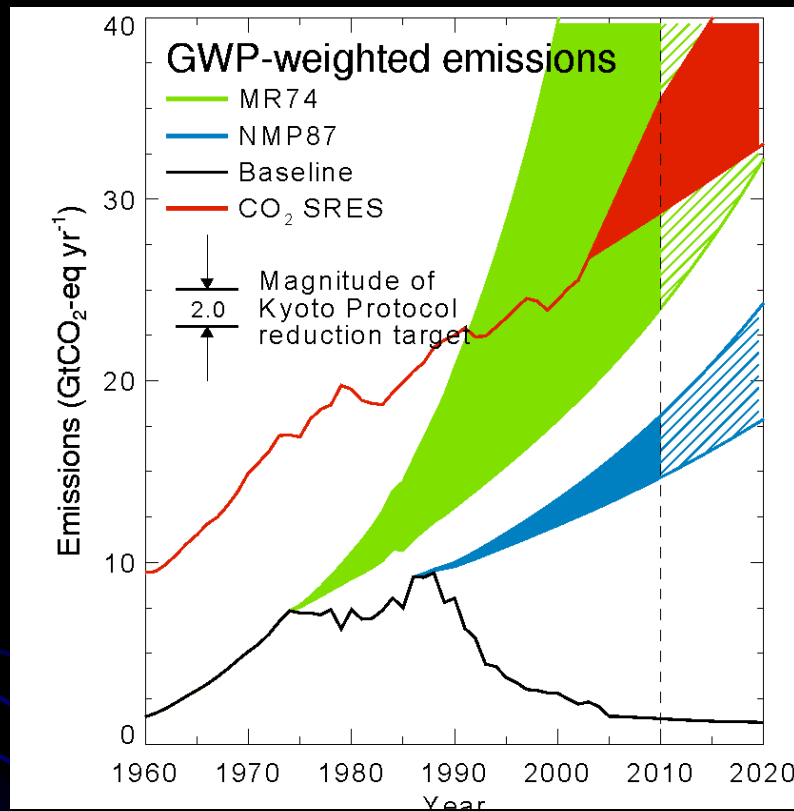




...Strong partnerships and sound policies lead to extraordinary progress in protecting the ozone layer

Millennium Development Goals
...Report of United Nations
2009

Effect of MP on Climate change



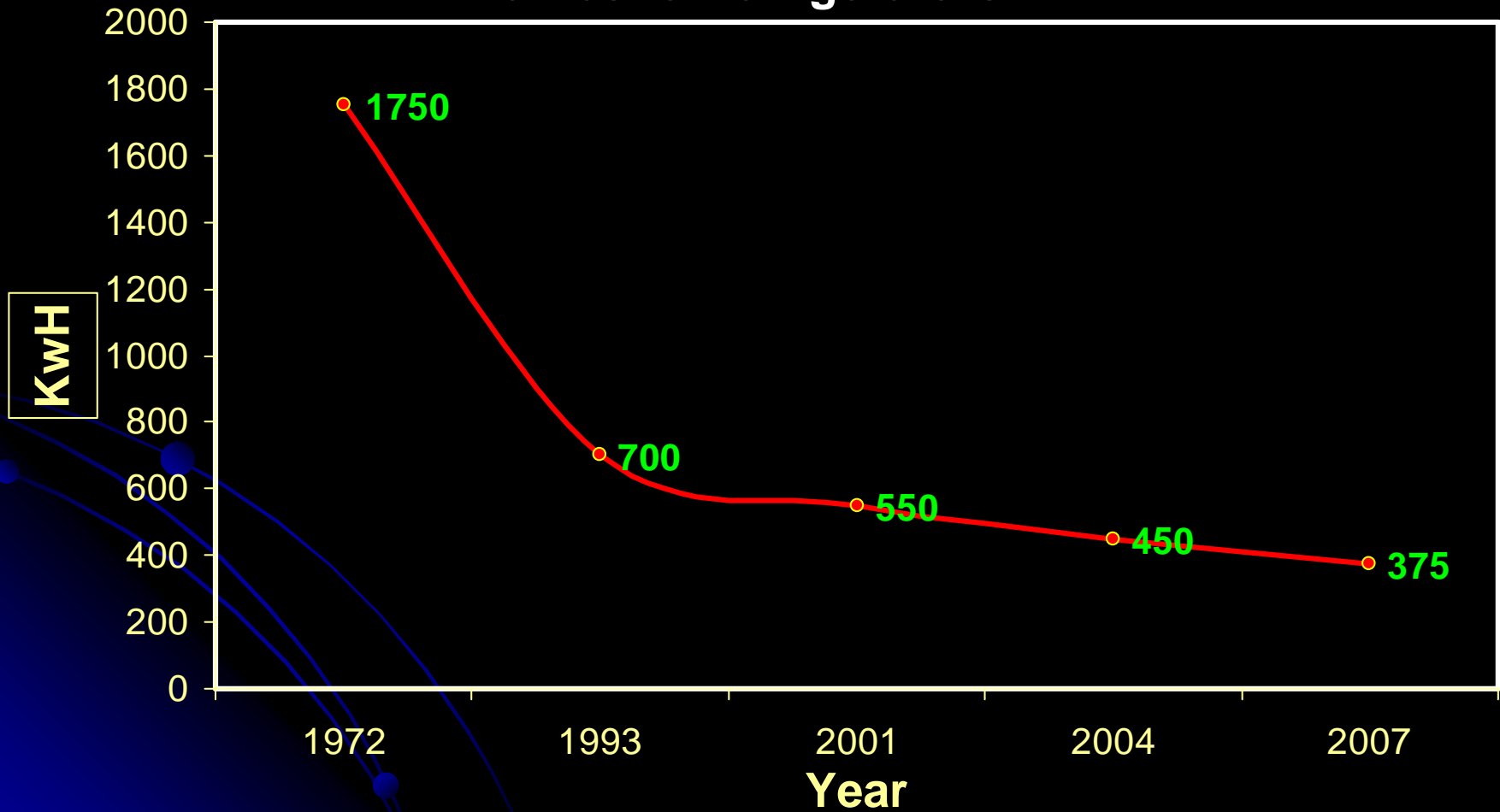
- Without Molina/Rowland: ODS emissions as important as CO₂
- Without Montreal Protocol: ODS emissions half of CO₂

Bail out by the Montreal Protocol...

- **5 to 6 times the emissions reduction target under the Kyoto Protocol**

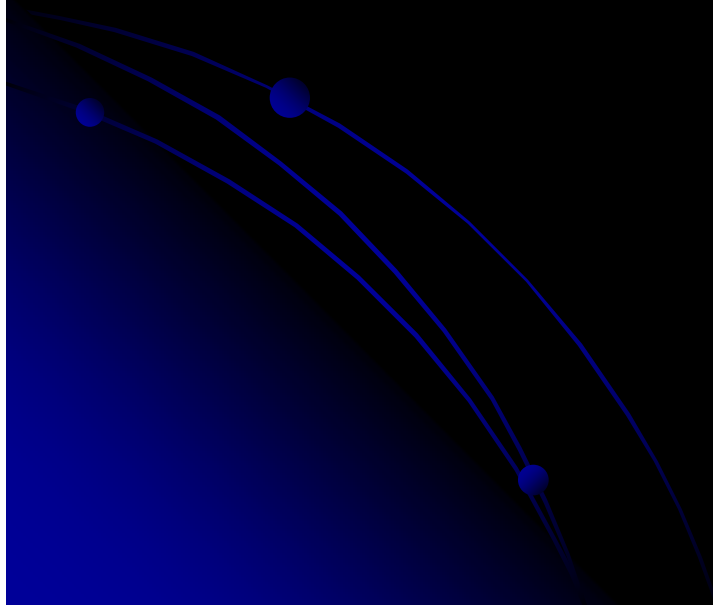
ENERGY EFFICIENCY IMPROVEMENT

Domestic Refrigerators





**Two Decades of Noisy Wait
Vs
Two Decades Quiet Revolution**





***I am trying to find the boundaries of two
apparent infinite things:***

Universe and Human Stupidity !

***I am sure to find the first one but
not sure of second....***

-By Einstein

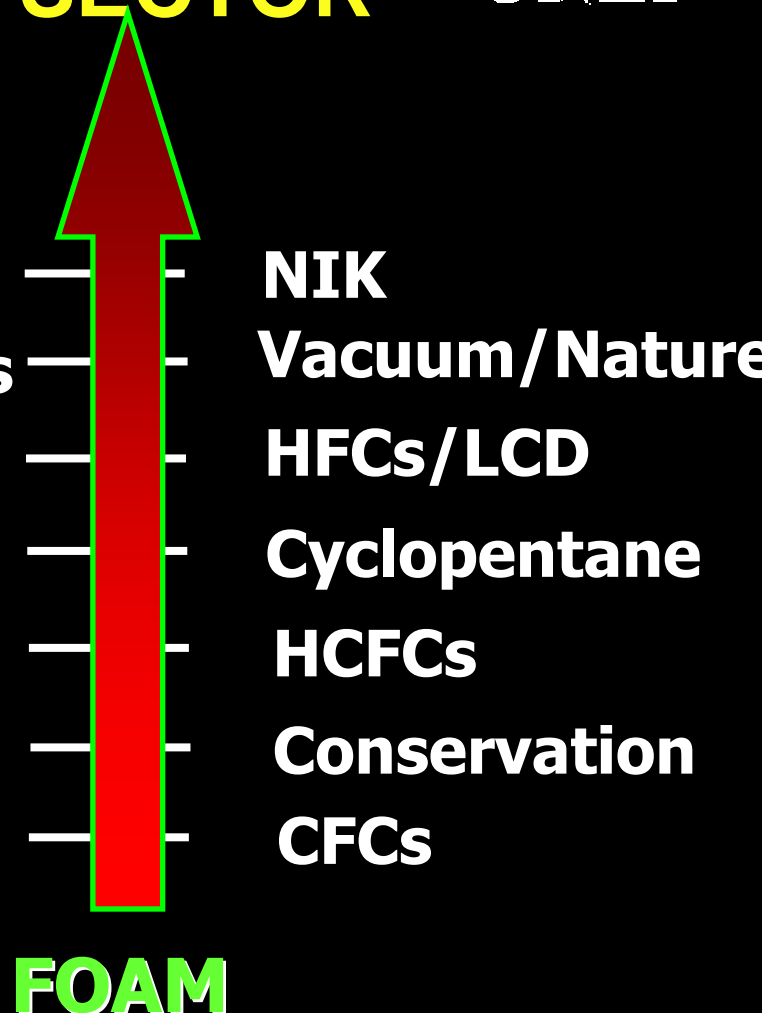
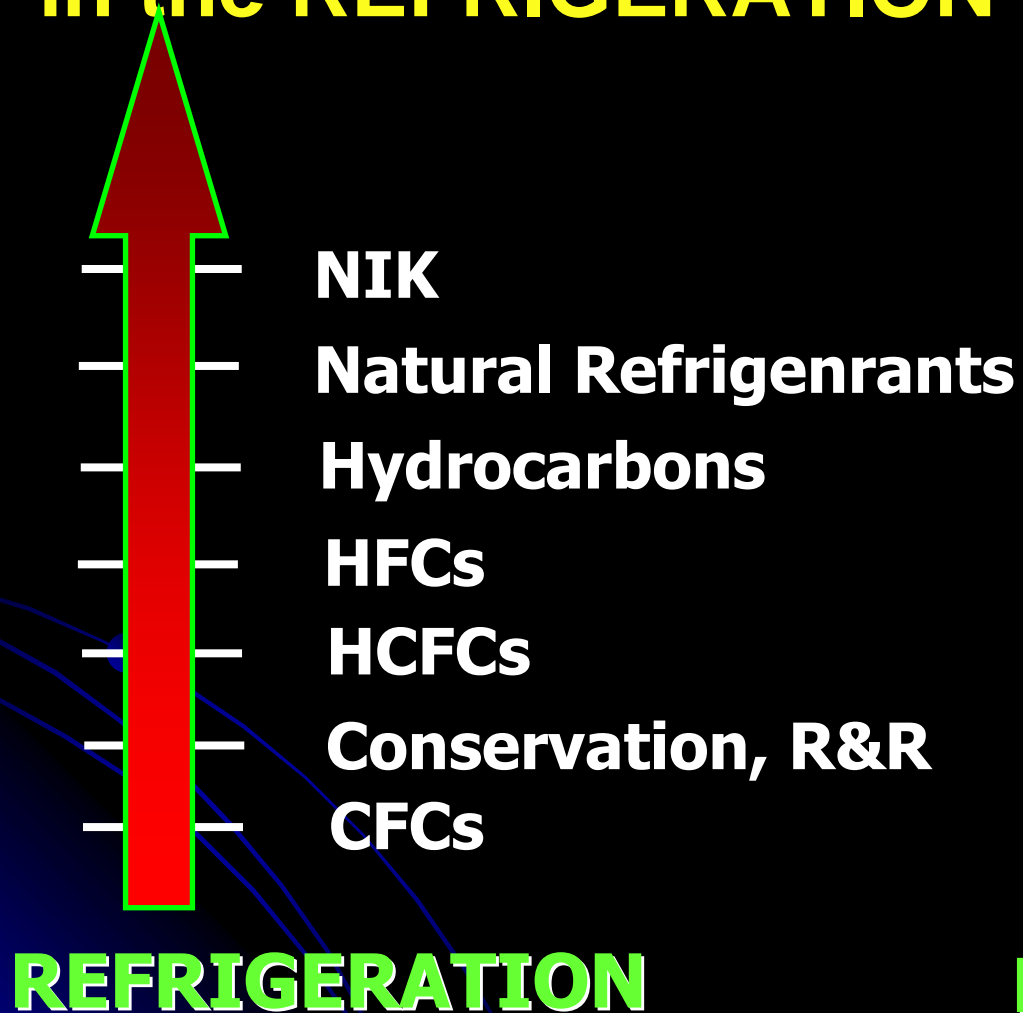


Dynamic RAC Industry

Major Contributor
Major Innovator

Only Constant is:
CHANGE!

TECHNOLOGICAL REVOLUTION in the REFRIGERATION SECTOR





300 days ago...

**...multiple crises have overshadowed
our success and prospects**

Food, Fuel, Finance, Flue...F Gases



Bail out and Stimulus package...

→ **US\$ 3 trillion**



Bail out and Stimulus package...

→ 20% will be invested in
Green Energy



Fifth Fuel...

✧ **No negative impacts, no uncertainties,
no trade offs**

✧ **20% reduction in energy
demand by 2020 with
existing technology**



Fifth Fuel...needs NGOs

✧ making appliances efficient

✧ applying efficient use



Historic Opportunity for 196 GovernmentsLow hanging climate benefits

 **HCFC phase out**

 **Destruction of ODS Banks**



Challenges And Opportunities

Green Economy

- **HFC substitutes-Low and zero GWP**
- **Smart designs**
- **Energy Efficiency**
- **Bank Management**



HCFC phase out & climate benefits

Cumulative Emission Reduction ⇒ 12-16 Gt of CO₂ equivalent

Cumulative Benefits ⇒ 40 Gt of CO₂ equivalent



END

www.unep.fr/ozonaction