## Mark Kenber, Policy Director The Climate Group



Retailing in the Green Economy: Getting Serious about Sustainability



#### The Climate Challenge

Mark Kenber, Policy Director THE CLIMATE GROUP



#### **SUSTAINABAILITY IN RETAIL**

London, September 23<sup>rd</sup> 2008





Independent NGO based Europe, North America, Australia, China, India

Focus on promoting leadership on climate & influencing change

**Develop & disseminate best practice** 

Positive approach – low carbon prosperity

**Network & incubator for new initiatives - Together.com,** 

Voluntary Carbon Standard, Breaking the Climate Deadlock

Membership drawn from Fortune 100, States, Cities



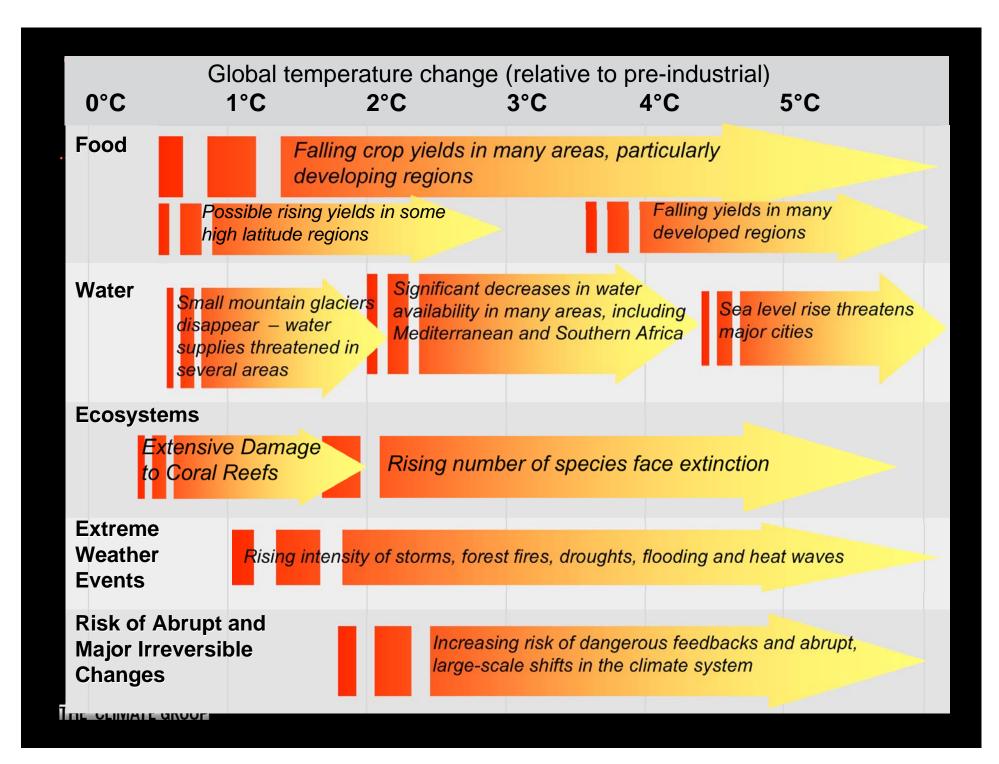


#### **ABOUT THE CLIMATE GROUP**

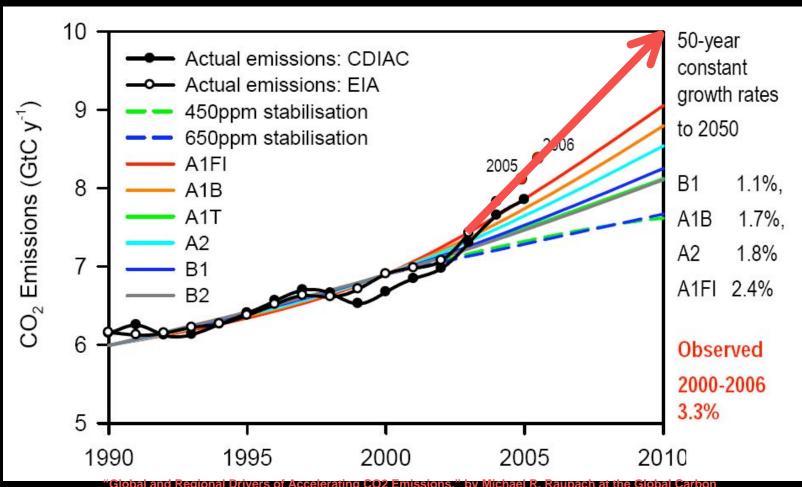
- International, non-profit organization that works with government and business to accelerate the transition to a prosperous, low carbon future.
- Founded 2003, launched by Tony Blair & 20 CEO/VIPs in April 2004.
- Offices in London, New York, California, Melbourne, Beijing, Hong Kong and India.
- Over the next 5 years, aim is to make a significant and measurable contribution towards shifting the world economy onto a low carbon pathway.
- We are working towards this goal by building a leadership coalition of the world's most influential businesses and governments committed to tackling climate change.



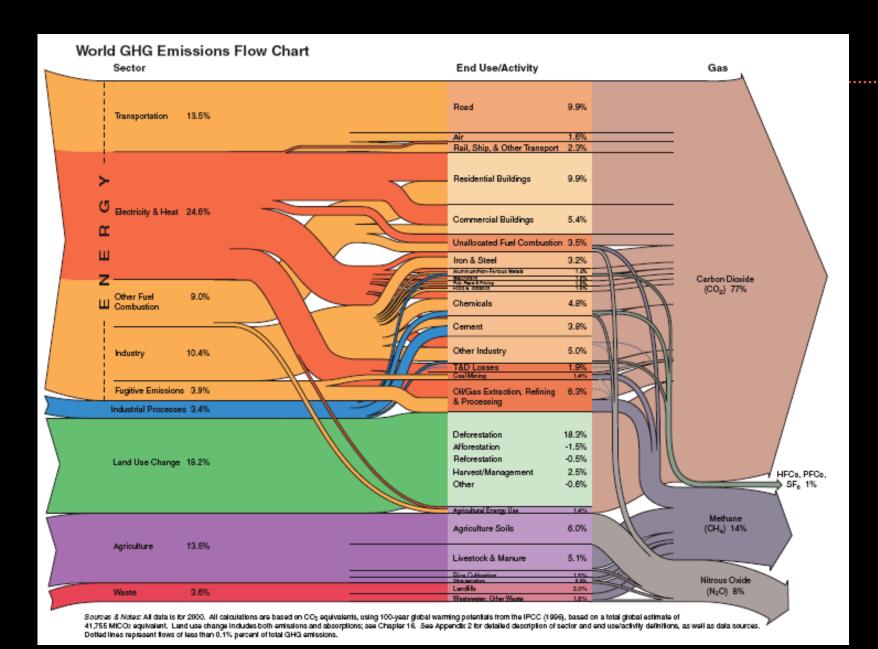
# THAT THE CLIMATE IS CHANGING AND THAT HUMANS ARE RESPONSIBLE IS NOW BEYOND DOUBT...



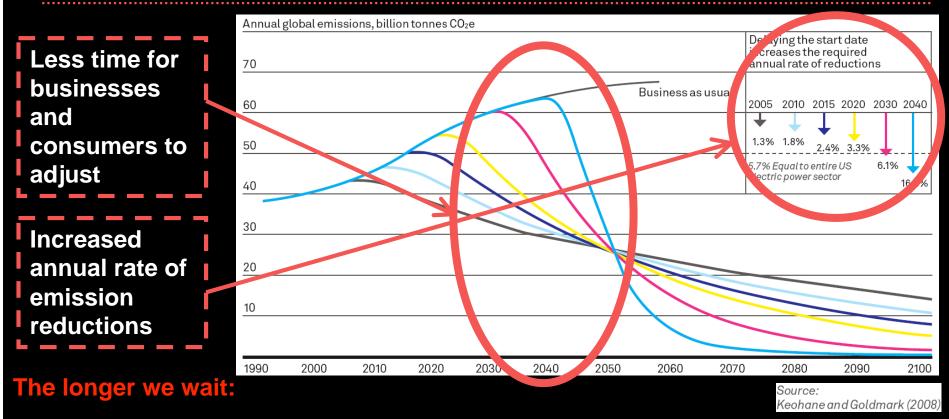
#### **EMISSIONS RISING FASTER THAN WE THOUGHT**



"Global and Regional Drivers of Accelerating CO2 Emissions," by Michael R. Raupach at the Global Carbol Project., 2007, http://www.pnas.org/cgi/reprint/0700609104v1



#### WAITING IS RISKY AND EXPENSIVE



- The more potential damages and irreversible effects we will face
- The more expensive emission reductions and adaptation will get
- The more effort we will have to make in less time

THE THE TELESCEPT THE risk will be of "locking in

#### THE CHALLENGE CAN BE MET

#### We can act now:

>We already have 70% of the needed technologies available today.

#### **Acting now could yield many benefits:**

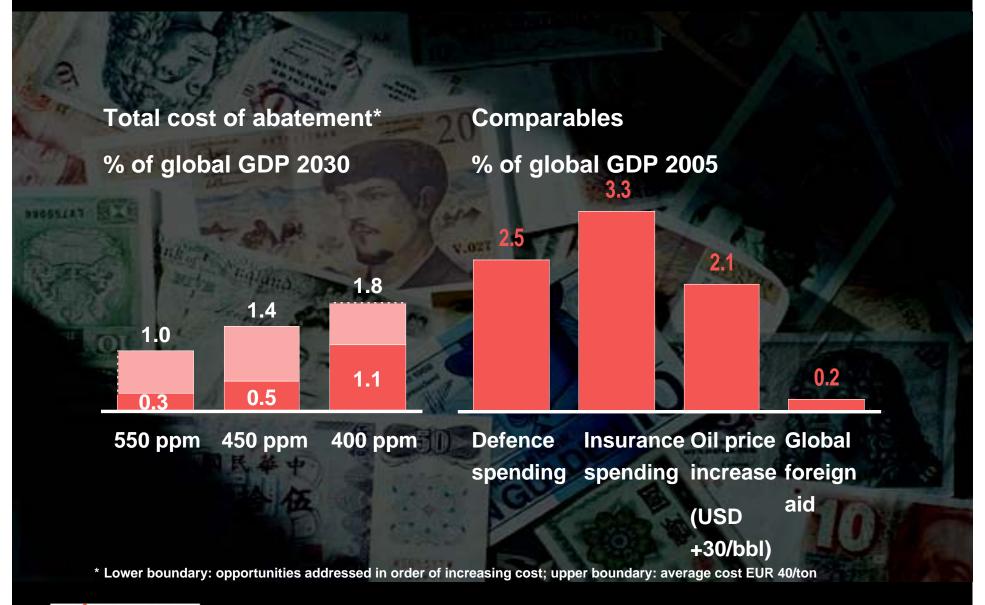
- It would increase the potential of an economically-friendly low carbon future;
- >It would reduce the potential level of damage;
- >50% of potential abatement actions result in increased energy security the rest is energy security neutral.

#### **Contrary to what is often thought:**

- >Global GDP is not likely to be severely affected;
- >This low-carbon economy will create jobs



#### **COSTS ARE RELATIVELY LOW**





#### EVEN IF THE RESPONSE IS STILL NOT COMMENSURATE WITH THE SCALE OF THE CLIMATE CHANGE PROBLEM

. . .

... CLIMATE MITIGATION
POLICIES ARE BEING PUT INTO
PLACE ...



## THE KYOTO PROTOCOL DRIVES NATIONAL AND REGIONAL POLICIES

- Kyoto Protocol sets caps on most OECD countries and creates the basis for international emissions trading
- "Kyoto countries" have implemented domestic policy measures to ensure compliance
- EU ETS, most significant measure, creates a cap on emissions of 11,500 installations, roughly 50% of EU emissions, leading to the emergence of a carbon price.
- Countries also use voluntary agreements, Kyoto mechanisms, standards and taxes
- Many also set medium/long-term targets e.g. EU



## OUTSIDE KYOTO, POLICIES ARE ALSO BEING PUT IN PLACE

- CALIFORNIA: AB 32 stabilises and then cuts state-wide emissions 80% by 2050 – trading a possibility
- NE US: RGGI creates a an emissions trading scheme for large emitters across 9 US states
- 32 STATE US REGISTRY
- SOUTH AUSTRALIA: 60% GHG reduction target by 2050
- CHINA: 20% renewables target



## ... AND BUSINESS ACTION ON CLIMATE CHANGE IS SPEEDING UP



## COMPANIES RECOGNISE CLIMATE CHANGE AS A RISK AND OPPORTUNITY

- The importance and urgency of addressing climate change is no longer in doubt
- Some companies respond strategically to climate change, others compliance obligations
- Many electric utilities and big energy users now have carbon management systems
- Increasingly see climate change as an opportunity:
  - internal efficiency and productivity gains,
  - improved reputation,
  - low carbon products and services.



#### **COMPANIES ARE CUTTING EMISSIONS**

- ALCOA: 37% CO2 reduction 1990-2004
- ARCELOR: 23% CO2 reduction 1990-2005
- ASTRA ZENECA: 63% C02 reduction 1990-2005
- BAT: 34% CO2 reduction 2000-5
- BSKYB: 20% CO2 reduction 2004-6
- BT GROUP: 35% CO2 reduction 1996-2006
- CATALYST PAPER: 71% CO2 reduction 1990-2005

etc. etc. ...



#### LOW CARBON INVESTMENTS ARE RISING

- WIND: capacity growing at 20% a year
- SOLAR: \$69bn a year investment by 2020
- BIOMASS, GEOTHERMAL, SMALL HYDRO: Use up 50% by 2010
- CLEAN FUELS: market to grow 3x in 10 years
- CLEAN TECH: 5<sup>th</sup> largest VC sector in US
- CARBON MARKETS: \$5bn in 2005, 1b tonnes CO2e in CDM pipeline



# ... BUT IN MOST CASES KYOTO, THE EU ETS AND CARBON PRICING ARE NOT THE MAIN DRIVER ...

## CARBON PRICING IS RAISING AWARENESS BUT NOT DRIVING INVESTMENT

- Carbon prices drive short term optimisation in electric utilities and some large energy users
- Carbon pricing requires firms to understand carbon management, trading and client needs

#### However,

- C price is too low to lead to major shifts for many seen as <1-2% production tax</li>
- Lack of price certainty post-2012 is already creating a 'wait and see' impact on utility investment decisions



### BUSINESS ACTION DRIVEN EQUALLY BY OTHER POLICIES AND INCENTIVES

- National policies (e.g. UK's RO, EEC) as important as ETS in driving utility decisions.
- Renewable incentives decisive for RE
- Security of supply concerns and high gas prices drive search for alternatives, diversification
- Other legislation impact at the margins e.g. biofuels, CHP, energy services directives



## STRATEGIC INVESTMENT DECISIONS DRIVEN BY OTHER CONSIDERATIONS

- Some bigger multinationals and other leaders driven by own assessment & need to understand business implications of CC:
  - > Litigation risk
  - > Prepare for long-term regulation
  - > Pressure from investors
  - > Pressure from customers & CSR concerns
  - > Cost savings, especially from energy efficiency
- Most importantly a shift from seeing CC as business risk to business opportunity



#### **CARBON DOWN PROFITS UP**

Of 137 organisations surveyed:

- 102 (74%) organisations using five or more different measures.
- 126 organisations (92%) used energy efficiency
- Over 100 (73%) renewable energy
- 77 (56%) improved waste management

Most follow Efficiency → Clean Energy → Offset



#### **CARBON DOWN PROFITS UP**

The gains can be significant:

- 33 companies saved \$9.3 billion
- Dow Chemicals US\$4 billion 1994-2005 from reduced energy use
- DuPont US\$3 billon between 1990 and 2005.
- Catalyst Paper saved \$4.4m in 1 year

With energy efficiency the most profitable approach



## OPPORTUNITY: GAINS FROM ENERGY EFFICIENCY

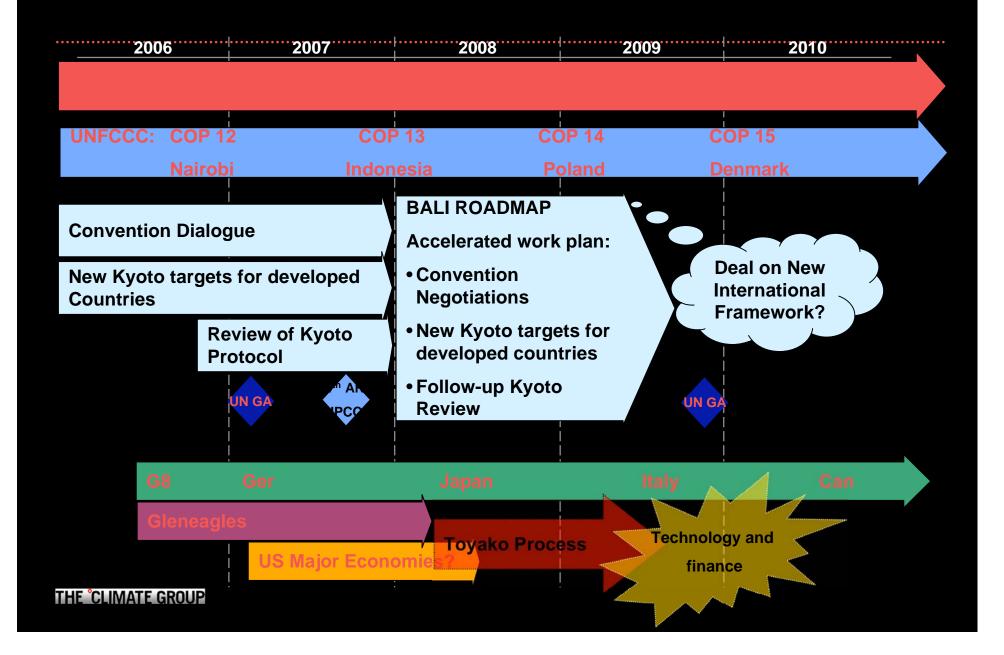
Company	Measure	Dates	Savings
Company	Undertaken	Dates	Javii igs
Boeing	Lighting		53% ROR
General Electric	Lighting	2005	\$12.8m
Alcoa	Energy surveys	2002 -4	\$20m pa
BP	Efficiency, energy mgmt	1998 - 2005	\$1,000m
Eastman Chemical		1995 - 2005	\$800m
General Motors	Lighting	2005	\$2.7m
Kimberly - Clark		2000 -5	\$70m pa
Pfizer	900 projects	2002 -5	\$30m pa
IBM	Real-time elec. monitoring	2005	\$747,000
DuPont		1990 - 2005	\$3,000m
Deutsche Telekom	Service contracts	2001 - 2005	\$35.3m
Caterpillar	Diesel fuel conservation	2004	\$2.8m
Catalyst	Reduced fuel consumption 2%	2005/6	\$5m
Allergan	Cogeneration & efficiency in R&D bldg.	2001 -5	\$2,300,000
ABM Amro	Communication	2004 -8	\$3.5m



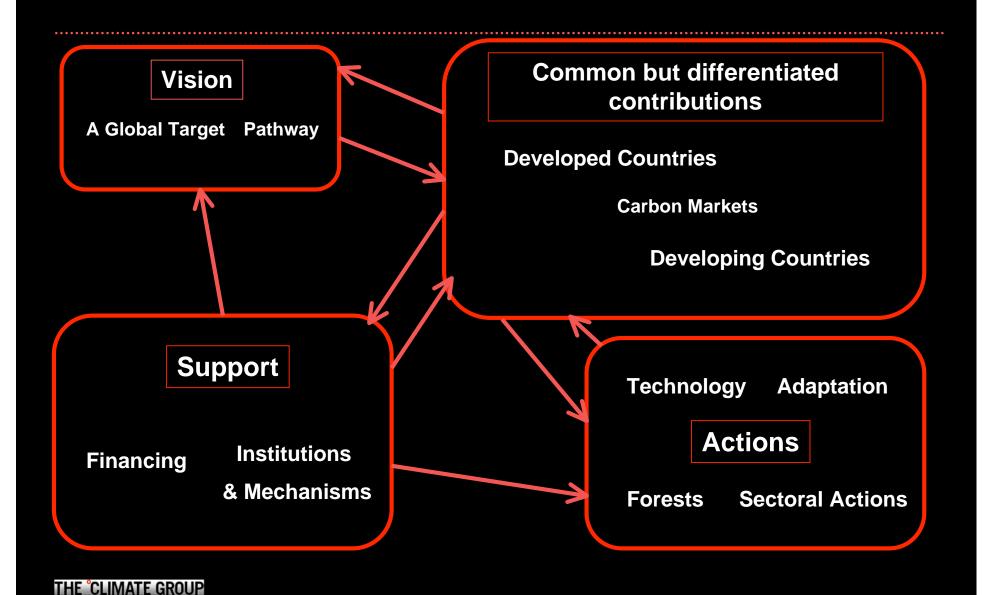
## ... AND A NEW INTERNATIONAL FRAMEWORK IS NEEDED...



#### THE LONG ROAD TO COPENHAGEN



#### THE GLOBAL DEAL'S BUILDING BLOCKS



#### **IN SUMMARY**

- The science debate is over (nearly)
- Politics has shifted
- More policies are in place but gap remains large
- Investment is flowing into Clean Energy (\$149 Billion in 2007 up 60% on 06) but not yet enough
- Climate change is clearly a risk but also a major opportunity for business.
- The technologies and tools for reducing emissions already exist – many are also profitable
- Businesses that show leadership can reap many benefits - efficiency, new products and services.
- Inaction is bad for the climate and bad for business











#### **IN SUMMARY**

- Climate change is clearly a risk but also a major opportunity for business.
- The technologies and tools for reducing emissions already exist - many are also profitable. Energy efficiency is a win-win for all sectors
- Businesses that show leadership can reap many benefits - efficiency, productivity new products and services.
- Inaction is bad for the climate and bad for business





### GLOBAL LEADERS FOR CLIMATE SOLUTIONS