

zerocarbonbritain
 an alternative energy strategy

COP 14 Poznań 2008

 Centre for Alternative Technology

 Side Event jointly organised by INFORSE & WECF
 UNFCCC COP-14, Poznan, Poland.
 6th December 2008



introduction

- Zero carbon scenarios are a response to the growing gulf between;
 - what our science demands
 - current policy targets

introduction

Charting the new terrain

- Identifying key areas for urgent research
- Create & communicate a common, coherent vision
- Endorsing, supporting and integrating actions from all sectors of civil society

globalcontext

Why zero carbon?

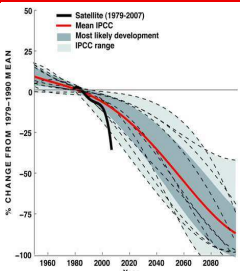
- Climate Security
- Energy Security
- International Security



globalcontext

Climate security

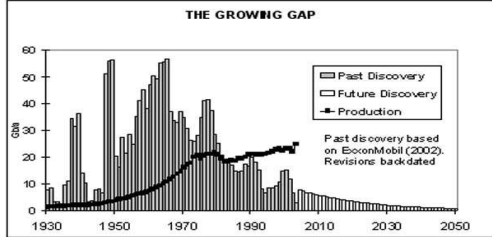
- *"The loss in summer of all eight million square kilometres of Arctic sea-ice now seems inevitable, and may occur as early as 2010, a century ahead of the Intergovernmental Panel on Climate Change projections."*
 (Climate Code Red)
- *"Targets of 550ppm must become 350ppm if humanity wishes to preserve a planet similar to that on which civilisation developed"*
 (James Hansen NASA Goddard Institute for Space Studies)



Arctic sea ice loss compared to IPCC models
Article on event from 19 September 2007 compared to IPCC modelled changes using the SRES A2 CCS scenario (IPCC high CO2 scenario). September loss data from satellite observations. Data smoothed with a cubic polynomial to smooth out the year to year variability. Chart courtesy of Arjan Stokking, Bjerknes Centre for Climate Research and University Centre at Svalbard, Norway. Date: 23 September 2007 www.carbonsecurity.info/images/hansen07.jpg

globalcontext

Energy security



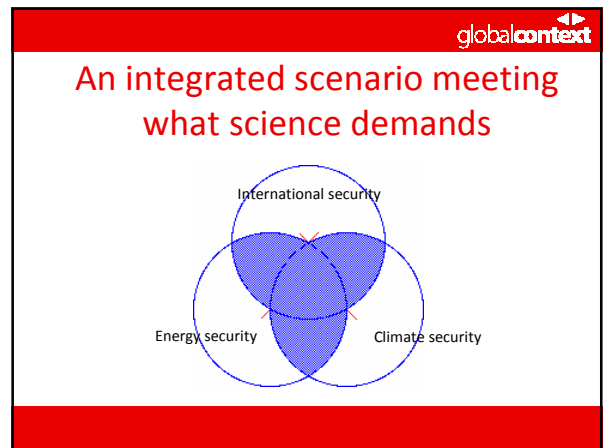
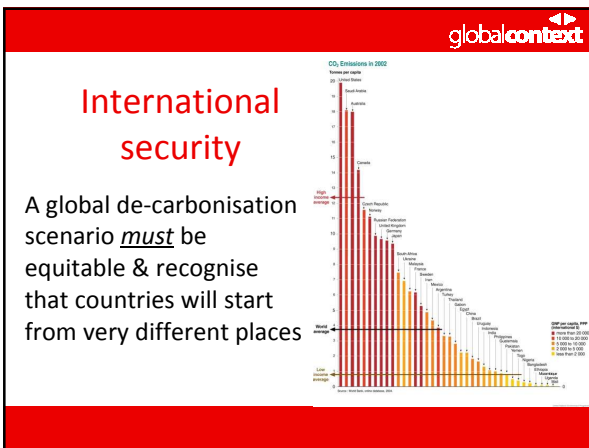
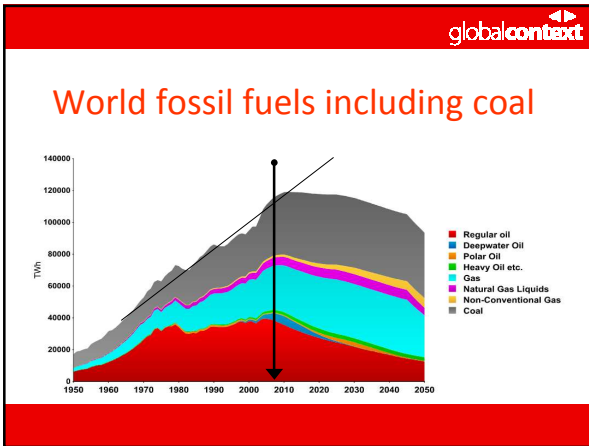
THE GROWING GAP

Oil CB

Year

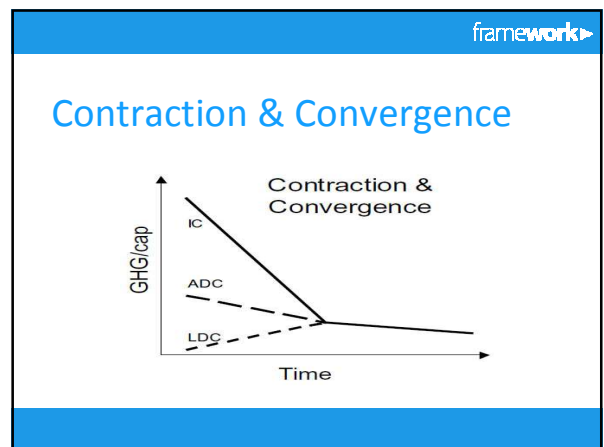
Legend: Past Discovery, Futures Discovery, Production

Past discovery based on Ecomobil (2002). Revisions back dated



framework

- **International**
 - Contraction & Convergence
- **National**
 - Tradable Energy Quotas (TEQs)




“Transition Technologies”

National, regional, community & domestic scale

powerdown powerup

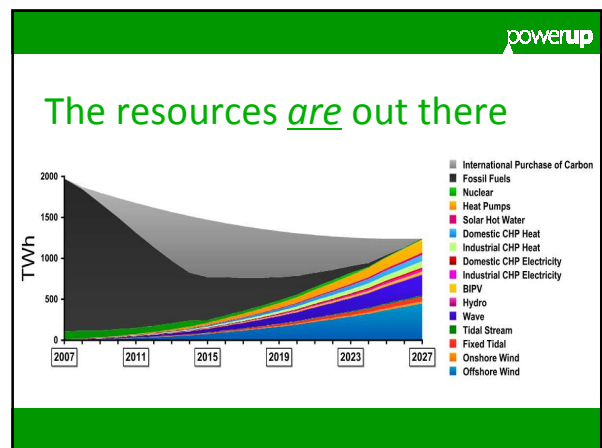
powerdown

- Sector by Sector
 - Household
 - Industry
 - Transport
 - Agriculture & Services
- 50% overall reduction achievable



powerup

- 100% Renewable!
- Electricity to move energy
- Diverse mix of generation
- No new nuclear power



A zero carbon transition is

- Scientifically inescapable
- Economically unavoidable
- Technically achievable
- **Exploring scenarios makes it socially & politically thinkable**

Mitigating climate change *will* mitigate recession

- The **right investments** now can create a new kind of economy;
 - energy lean
 - locally resilient, but still active in a global context
 - rich in quality jobs with a strong sense of purpose
 - reliant on in-exhaustible energy supplies.

Change is coming....

- Change is coming, ready or not
- Civil society's choice is between
 - a future where we are proactive and act ahead of events
 - a future where we let events overtake us.

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Full report available free from
www.zerocarbonbritain.com



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Alternative
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www.cat.org.uk

INFORSE-EUROPE
International Network for Sustainable Energy - Europe

www.inforse.org/europe/Vision2050.htm