

## The Role of Civil Society in Tackling Climate Change



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### introduction

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

## 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

global**context**

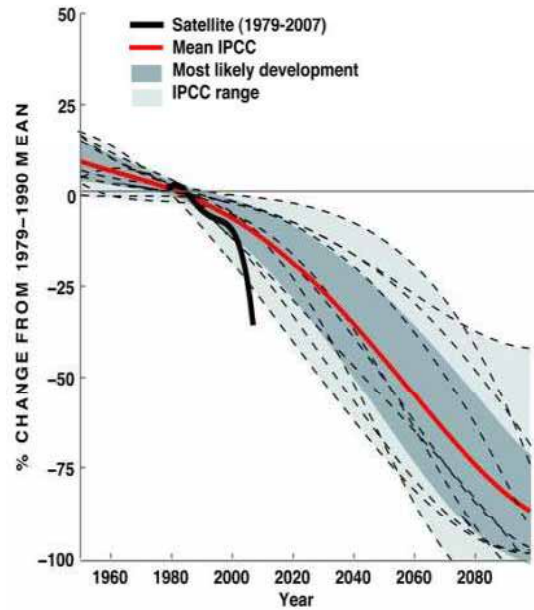
Why zero carbon?

- Climate Security
- Energy Security
- International Security



# Climate security requires a zero carbon transition

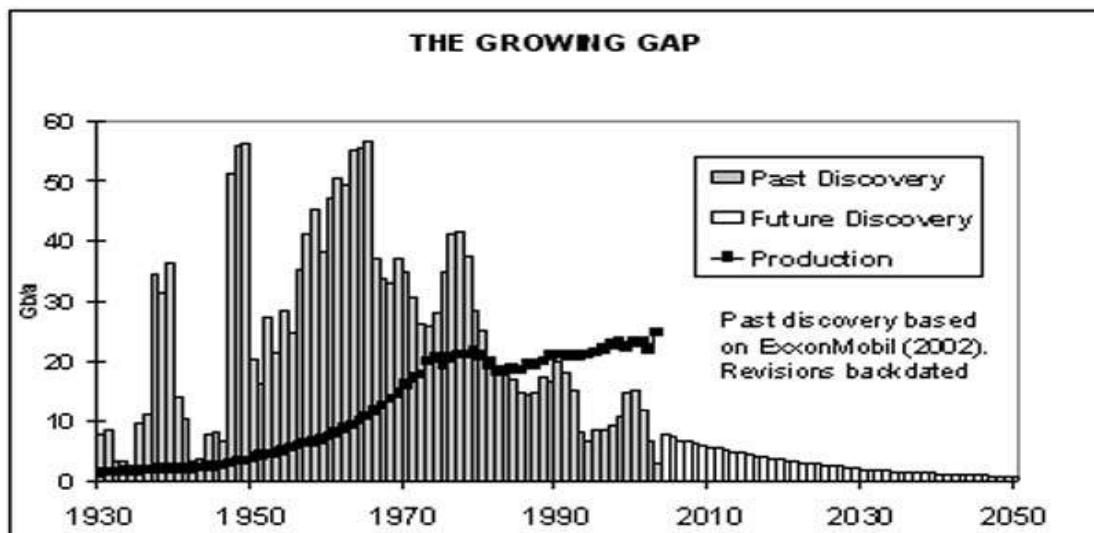
- “The loss in summer of all eight million square kilometres of Arctic sea-ice now seems inevitable, and may occur as early as 2010, a **century ahead** of the Intergovernmental Panel on Climate Change projections.” (Climate Code Red)
- “Targets of 550ppm must become **350ppm** if humanity wishes to 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**

Arctic ice extent loss to September 2007 compared to IPCC modelled changes using the SRES A2 CO2 scenario (IPCC high CO2 scenario). September loss data from satellite observations. Data smoothed with a 4th order polynomial to smooth out the year-to-year variability. Chart courtesy Dr Asgeir Sorteberg, Bjeknes Centre for Climate Research and University Center at Svalbard, Norway. Date: 23 September 2007 [www.carbonequity.info/images/seaice07.jpg](http://www.carbonequity.info/images/seaice07.jpg)

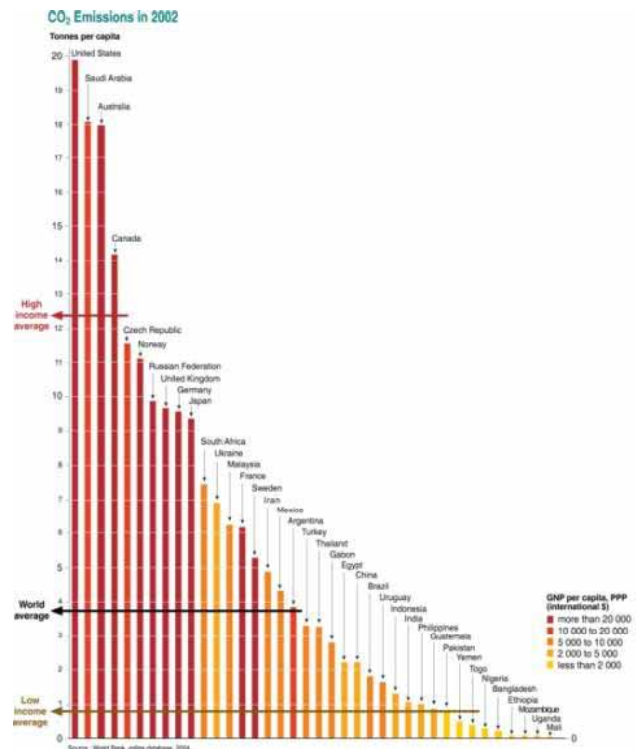
# Energy security also requires a zero carbon transition



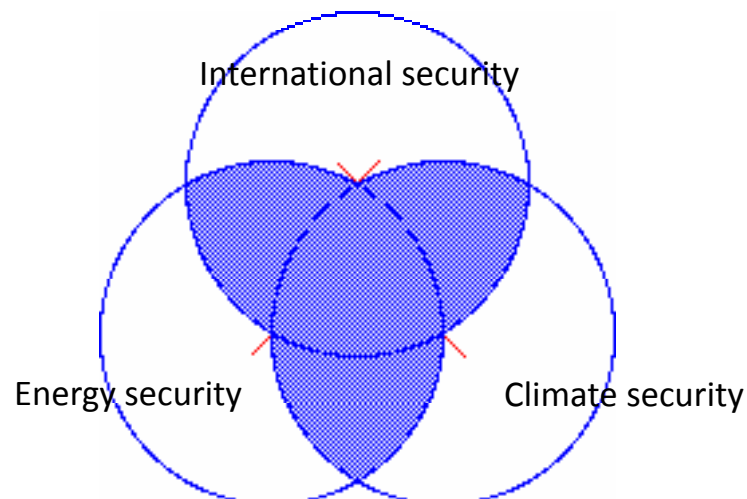
Past discovery based on ExxonMobil (2002). Revisions backdated

# International security

A global de-carbonisation strategy *must* recognise that countries will start from very different places




# An integrated scenario with inputs from many stakeholders





# framework▶

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



## “Transition Technologies”

National, regional, community & domestic scale

power**down**  
▶

power**up**  
▶



## 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 helps make it socially & politically thinkable**
- 



## A green new deal

- 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 and 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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an alternative energy strategy

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