The Stern Review

Axel Michaelowa

michaelowa@perspectives.cc

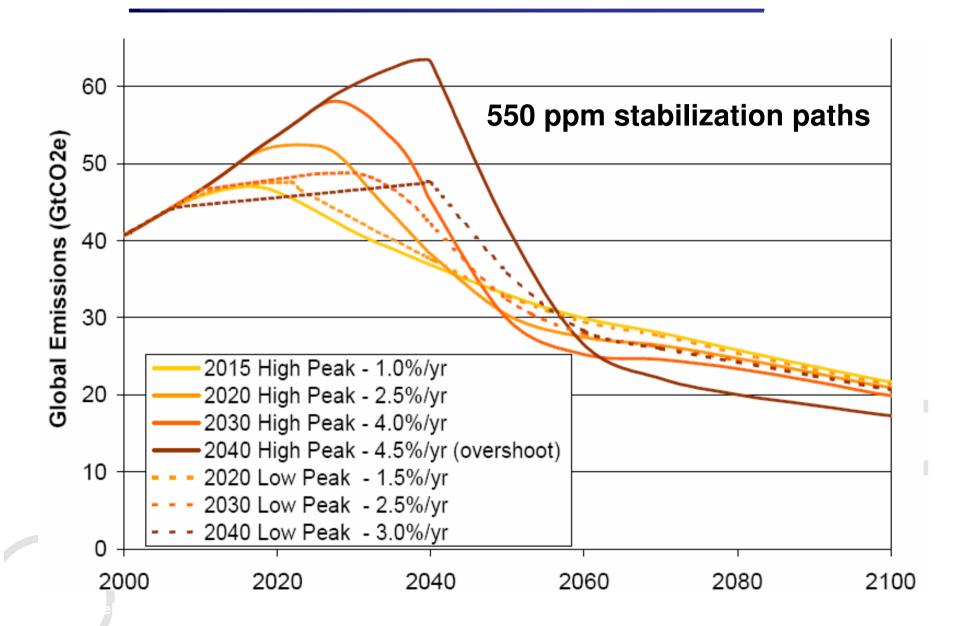
The Stern Review

- The benefits of strong, early action on climate change outweigh the costs
- Ignoring climate change will eventually damage economic growth
- Risks of major disruption to economic and social activity, later in this century and in the next, on a scale similar to those associated with the great wars and the economic depression of the first half of the 20th century
- Tackling climate change is the pro-growth strategy for the longer term, and it can be done in a way that does not cap the aspirations for growth of rich or poor countries

The Stern Review II

- The impacts of climate change are not evenly distributed - the poorest countries and people will suffer earliest and most
- Climate change may initially have small positive effects for a few developed countries, but is likely to be very damaging for the much higher temperature increases expected by mid- to latecentury
- The total impact on the economy is likely to be higher than previously suggested
- BAU climate change will reduce welfare by an amount equivalent to a reduction in consumption per head of 5 - 20%.

The Stern Review III



The Stern Review IV

- Annual costs of stabilisation at 500-550ppm CO₂e ~ 1% of GDP by 2050
- Upper bound for the annual cost of emissions reductions for stabilisation at 550ppm CO₂e ~ 1% of GDP by 2050
- Stabilisation at 450ppm CO₂e is already almost out of reach
- Weak action in the next 10-20 years would put stabilisation even at 550ppm CO₂e beyond reach
- Uncertainty is an argument for a more, not less, demanding goal

The Stern Review V

- Policy to reduce emissions should be based on three essential elements:
 - carbon pricing
 - technology policy
 - removal of barriers to behavioural change
- Creation of a broadly similar carbon price signal around the world
- Use of carbon finance to accelerate action in developing countries
- Adaptation policy is crucial for dealing with the unavoidable impacts of climate change
- Curbing deforestation is a highly cost effective way of reducing greenhouse gas emissions
- Delay would be costly and dangerous