



EMAN 410 *Energy Policy*. Otago University, 15 August 2014
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**The New Zealand Government's
response to the key IPCC messages
on climate change for NZ**

– a very short talk!

**IPCC CLIMATE CHANGE 2014
Mitigation**

Working Group III contribution to the
IPCC Fifth Assessment Report

MASSEY UNIVERSITY WHO UNEP

**Royal Society and US National
Academy of Sciences, 2014**

**“Climate change is one of the
defining issues of our time. It is
now more certain than ever,
based on many lines of evidence,
that humans are changing
Earth's climate.”**

**IPCC 5th Assessment Report –
The Physical Science Basis,
September 2013**

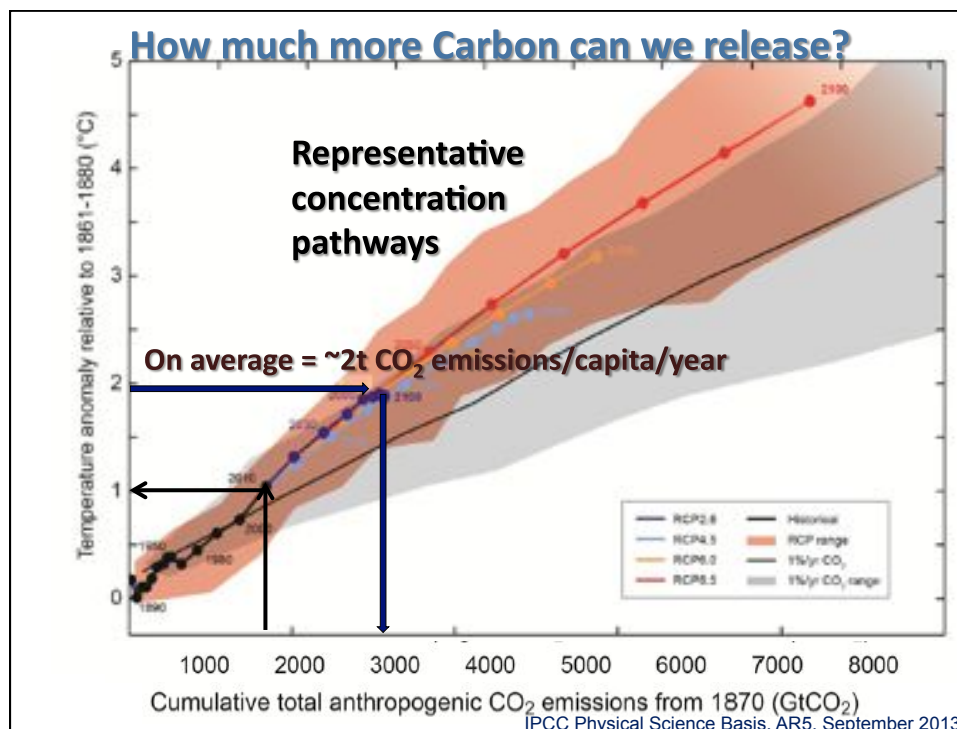
“Human influence on the climate system is clear. This is evident from the increasing greenhouse gas concentrations in the atmosphere, positive radiative forcing, observed warming, and understanding of the climate system.”

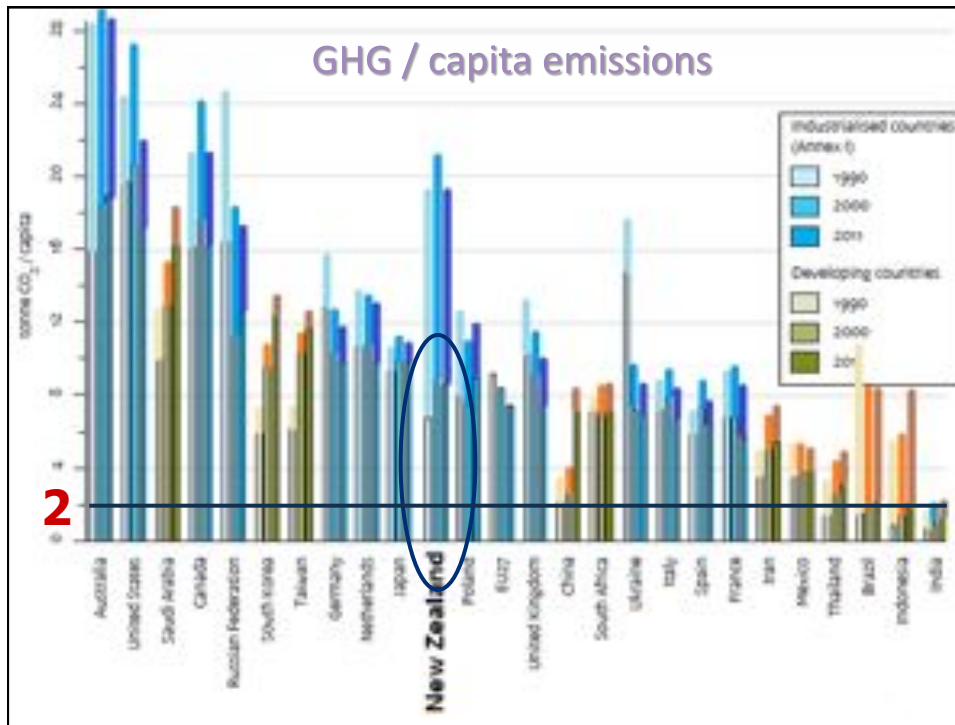
UN Security Council, February 2013

“The current trend is towards a 4°C temperature rise future that will have devastating consequences and pose a grave threat to peace and security.”

Minister Simon Bridges

“Our mixed and balanced approach to energy means that I am motivated by the opportunities petroleum development presents for New Zealand socially, economically and environmentally.”

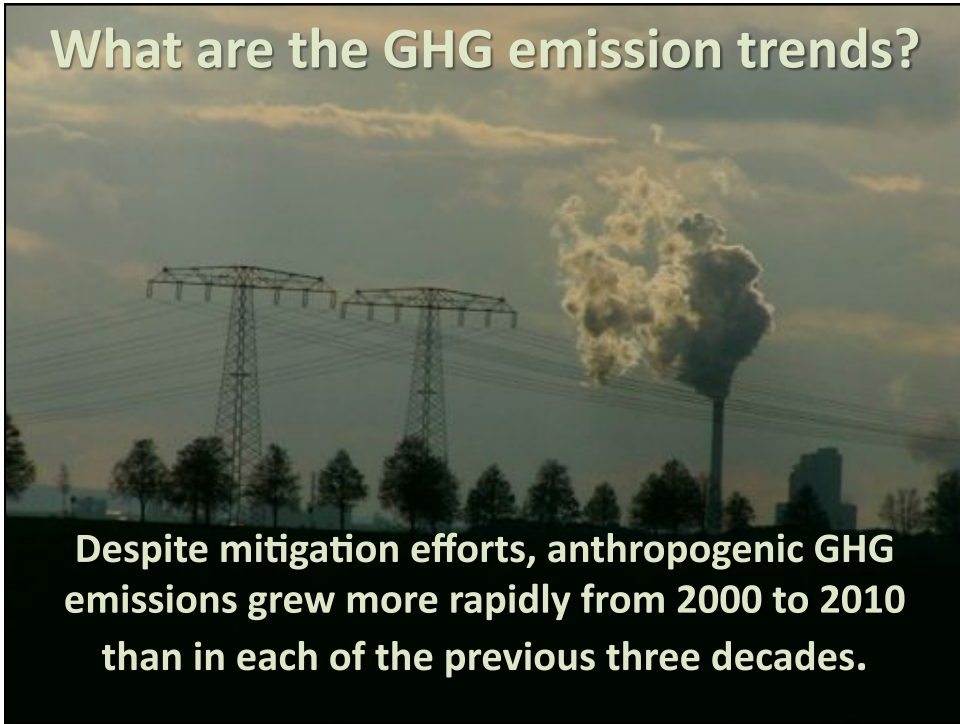




Minister Simon Bridges

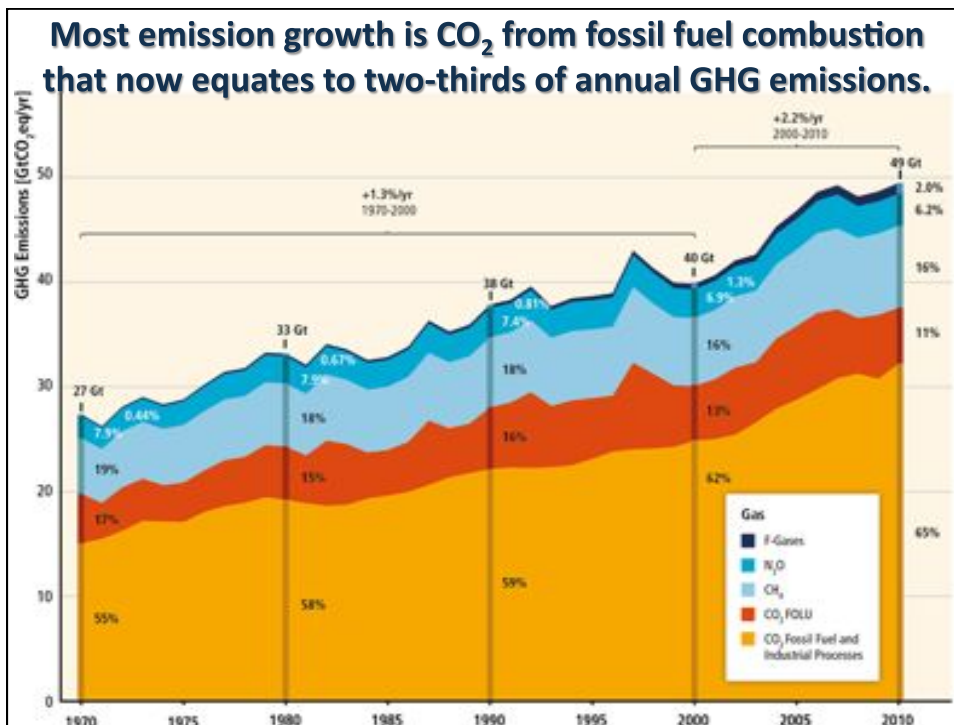
“But remember, New Zealand is only responsible for 0.14% of global greenhouse gas emissions.”

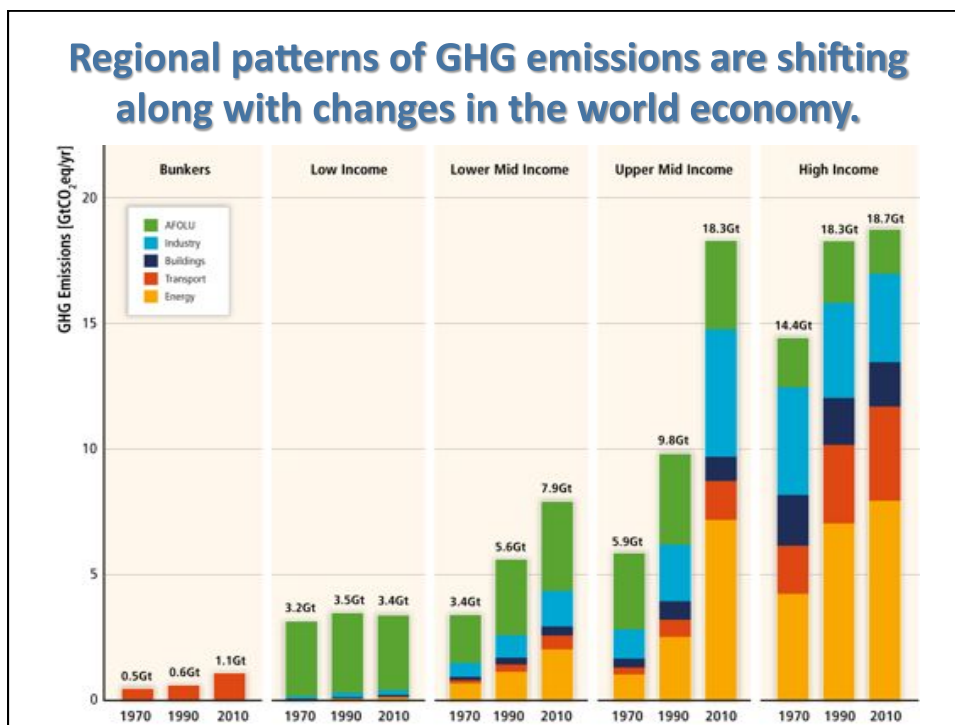
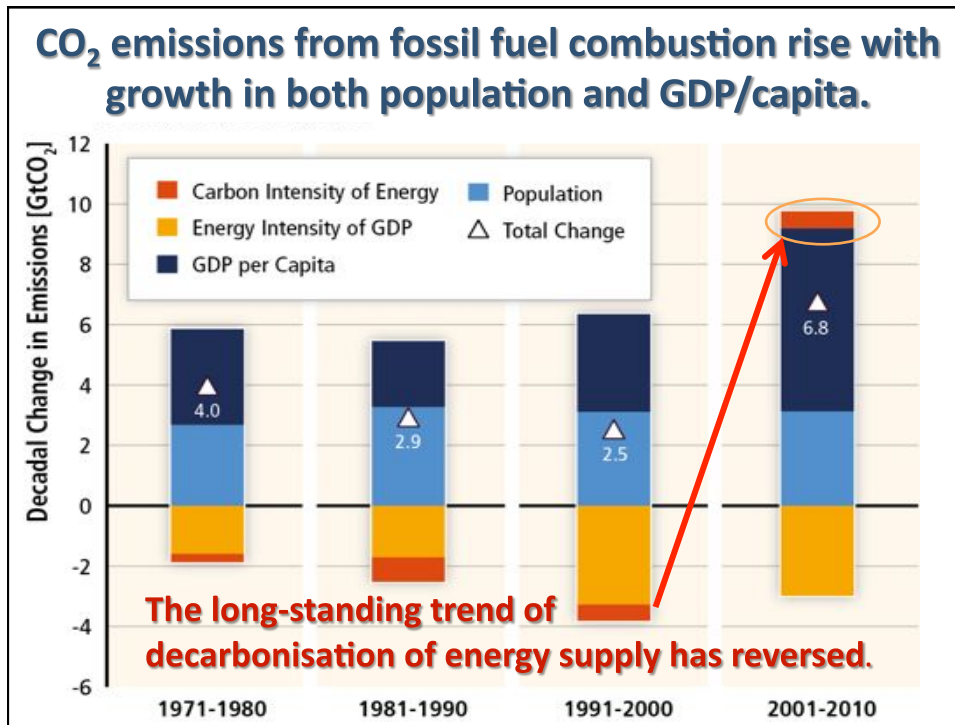
What are the GHG emission trends?

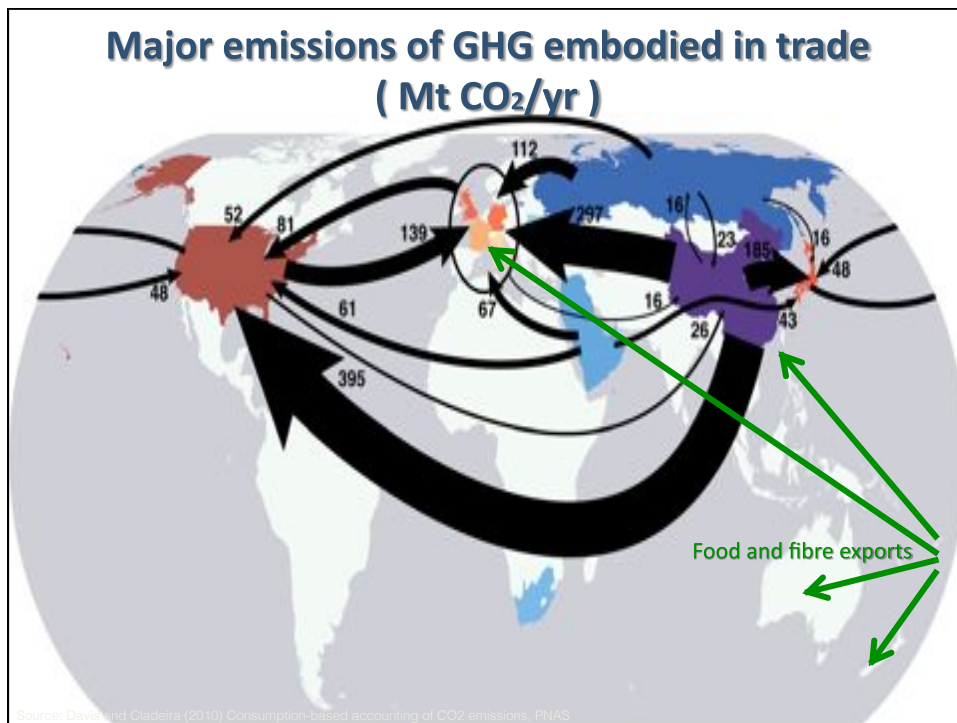
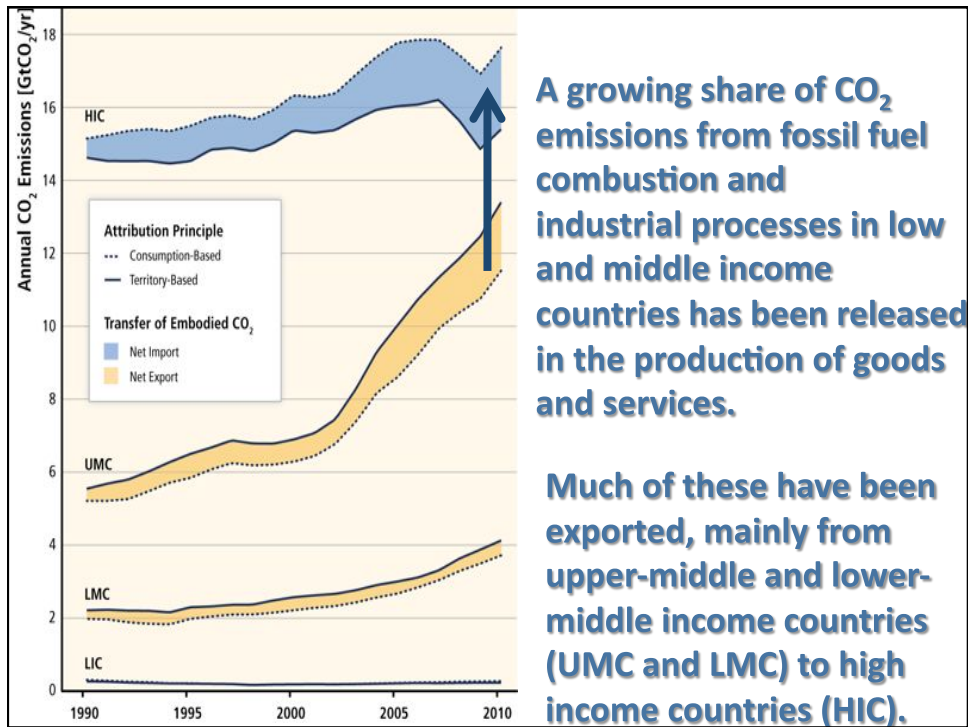


Despite mitigation efforts, anthropogenic GHG emissions grew more rapidly from 2000 to 2010 than in each of the previous three decades.

Most emission growth is CO₂ from fossil fuel combustion that now equates to two-thirds of annual GHG emissions.







Can atmospheric GHG concentrations be stabilized?

There are multiple pathways to any stabilization level including ones consistent with the 2°C target, but requirements and risks vary substantially.

