



# Climate Change

The EEC Perspective

(in 15 minutes or less)

Thriving on Change



# 16th General Insurance Seminar











# Agenda

- The IAAust EEC?
- Recent EEC output
  - Submissions
  - Papers
  - Actuary Australia Magazine
- The future for EEC and actuaries generally





#### What is the IAAust EEC?

- Energy and Environment Committee
  - Former sub-committee but lost its parent
  - Now on the way to full practice committee
- It is the mission of the Energy and Environment Committee to:
  - Develop, promote and assist education of members in the energy and environment field;
  - Undertake and assist in research projects and public debate regarding energy and environmental issues, contributing a sound actuarial basis to the field.







#### Who is the IAAust EEC?

- ~20 members
- About 40% actively work in related fields
  - Energy company (carbon strategy role)
  - Climate change consulting
  - Government departments
  - Ethical funds management
- # in the field is increasing all the time





#### Recent EEC output - submissions

- March 2007 PM's Task Group on Emissions Trading
- May & June 2007 Letters to Opposition Leader and PM in support of Garnaut Review and APEC regional cooperation, respectively
- Feb 2008 2 submissions to Garnaut review:
  - Insurance Issues
  - Factors in ETS design
- April 2008 submission to Garnaut following ETS discussion paper





# Recent EEC output - papers

- 2007 Convention
  - Paper on Stern Review
  - Paper on achieving 60% emissions reduction
- Insights sessions
- UK magazine article
- SOA magazine article
- 2009 Convention review of white paper



# EEC and ACTUARY Australia

The love - hate relationship





#### The Love

#### 2007 and 2008 articles

- Issue 118 Article on Stern Review
- Issue 119 Modelling climate economics
- Issue 120 GHG emmissions
- Issue 126 Economic costs of climate change (Stern)
- Issue 127 GHG emissions Aust v NZ
- Issue 130 Carbon delivery insurance
- Issue 132 Opportunities in the Aust Carbon market





### The Hate (strong word?)

- Issue 112 2 Ducks
- Issue 115 2 Ducks
- Issue 117 The Pulse (same author as 2 Ducks!)
- Issue 131 2 Ducks
- Issue 134 Report on Modelling Climate Change
- Letters in response Issues 116, 120 and 133





#### The EEC's view on all this

disclaimer





#### **Anthropogenic Climate Change**

- Evidence is clear
  - Basic physics, more atmospheric GHG's = hotter planet
  - Basic data atmoshperic concentration of GHG's steady increase
  - Global warming trend
  - Paleo-climatic studies confirm understanding
  - Modelling produces likely outcomes
  - But don't believe me I am not a climate scientist read the papers yourself!





#### **Anthropogenic Climate Change**

- Assessment & Support
  - 185 member countries of the UNFCCC unanimously agree on the IPCC Assessment Reports (i.e. Governments and their scientists)
  - Meta-study of 928 climate change papers published between 1993 and 2003 in refereed scientific journals found 75% explicitly or implicitly accepted the consensus view while 25% took no position. 0% disagreed with the consensus!
  - Consensus among climate scientists
  - Organisations as diverse as Shell, NewsCorp, Google, US Pentagon, NGO's take CC seriously (e.g. currently the single greatest risk to civilisation)







# Contrarians, conspiracy theories etc

- Contrarians v Skeptics
- The idea that this is some sort of conspiracy is as far fetched as:
  - The denial of the Holocaust
  - The moon landing was faked etc
- Asbestos & tobacco





## **Actuary Australia**

- Right to freedom of expression?
- But when does balanced reporting become biased reporting?
- Is it professional? Humourous?



## In summary

- The world has moved on...when will our magazine?
- And a note for true skeptical actuaries
  - Use Control Cycle
  - IPCC AR4 estimates are proving to be underestimates
    - GHG's concentrations growing faster
    - Ice melt faster than predicted
    - Sea rise higher than predicted





#### **Future aims of the EEC**

- Become a full practice committee
- Develop the space for actuaries (although this will rely more on the individuals than the EEC)
- Continue the education of the membership and public policy submissions





# Carbon market opportunities

- Modelling / projections of carbon liabilities
- Cashflow implications of ETS
- Appropriate risk management responses
- Insurance
- Working for:
  - Energy companies
  - Government departments
  - Climate change consulting operations
  - Insurance companies
  - Fund managers, investment banks