

Role of Government in aviation and climate change

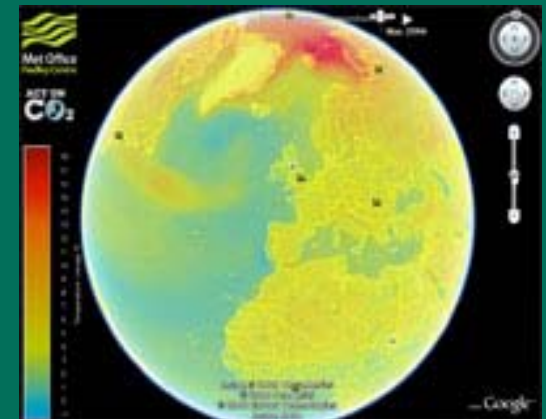
Martin Capstick
Aviation Environmental Division
13 January 2009

Framework

- Global context
- Areas needing action
- How to achieve that action

Global context

- Need to bear down on global emissions
- Developed states need to reduce by 2050
(?80%?)
- Aviation emissions forecast to rise



UK Climate Change Act 2008



- Legally binding emissions limit
- International Aviation to be “taken into account”
- Climate Change Committee
- www.theccc.gov.uk

CCC Views

(i) Required global emissions reduction



What's changed?

- Advances in science
- Actual emissions higher than forecast

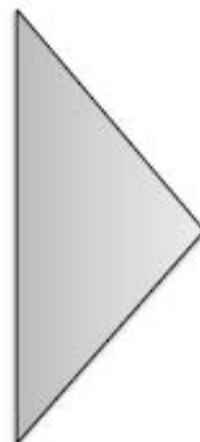
Assessment of damage

Decision rule

- keep temperature change close to 2°C
- and probability of 4°C increase at very low level (less than 1%)

Global trajectories considered

- Early or later peak (2015 vs. 2030)
- 3%/4% annual emissions reduction



Required global emissions reduction of 50%

- 20-24 GtCO₂e emissions in 2050
- 8-10 GtCO₂e in 2100

Global aviation emission forecasts

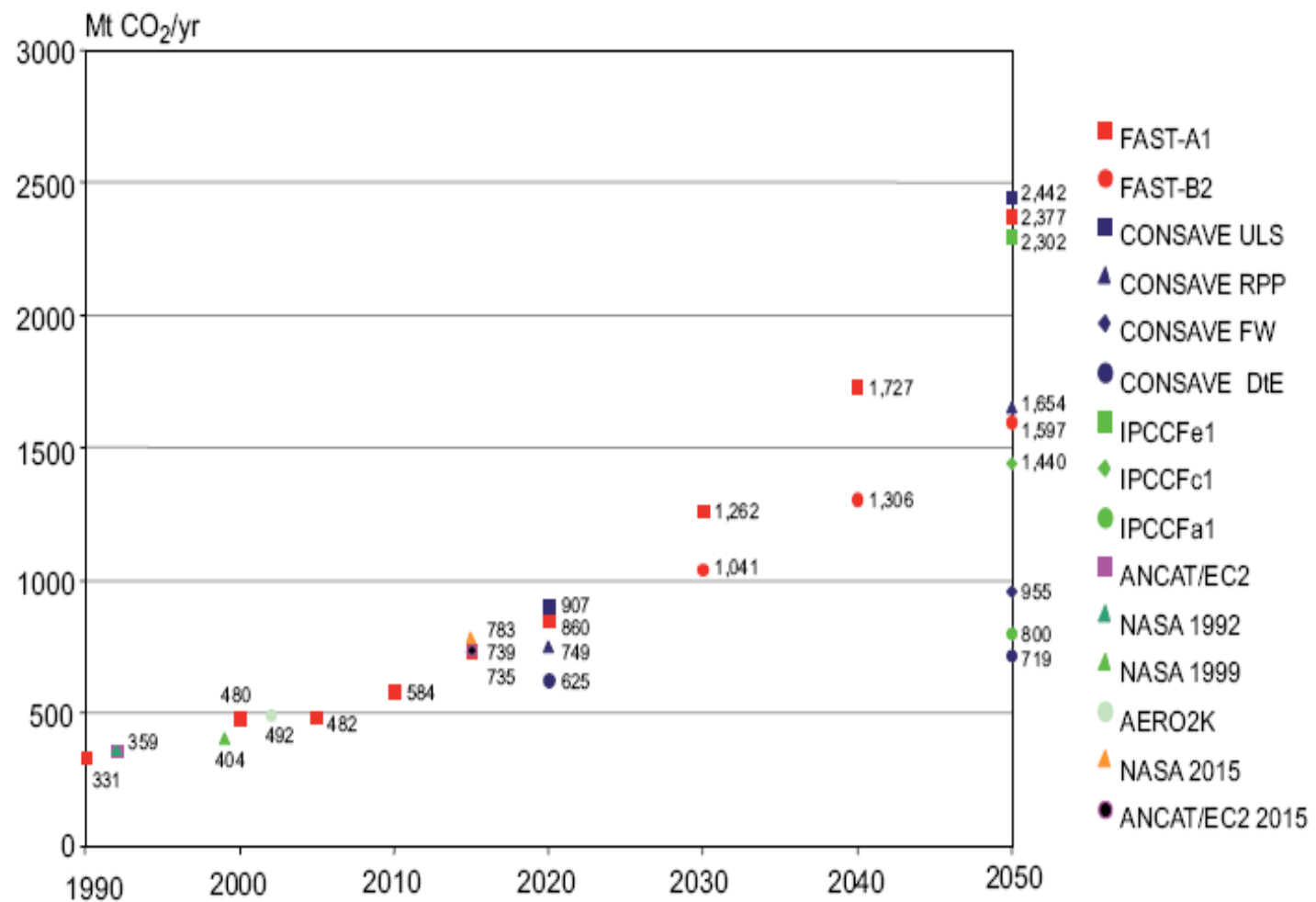


Figure 5.6: Comparison of global CO₂ emissions of civil aviation, 1990–2050

Comprehensive solution

- Support new technology
- Improve air traffic management
- More efficient operations
- Economic instruments

Examples

European Clean Sky JTI

www.cleansky.eu



UK National Aerospace Technology Strategy

www.berr.gov.uk

Single European Sky

www.eurocontrol.int/ses/public/subsite_homepage/homepage.html



NATS set itself target

www.nats.co.uk

Code of Practice on arrivals

www.dft.gov.uk

Emissions Trading



Working for global solution

- ICAO Group on International Aviation and Climate Change
 - Global goals
 - Menu of measures
- Other possibilities
 - ?International standards?
 - Global trading scheme

Conclusion

- Set strategic framework
 - Recognition of aviation's importance
 - In overall context of sustainable development
- Government action in areas where only Government can act
- Plan for the long term

EU ETS addendum

- Starts in 2012.
- But data collection before – regulator state proposed Feb 09
- Monitoring plan summer 09
- Cap 97% then 95% of 2004/06 emissions
- 15% of allowances to be auctioned
- Scope for “equivalent measures”