



#### The way forward on aviation CO<sub>2</sub> emissions

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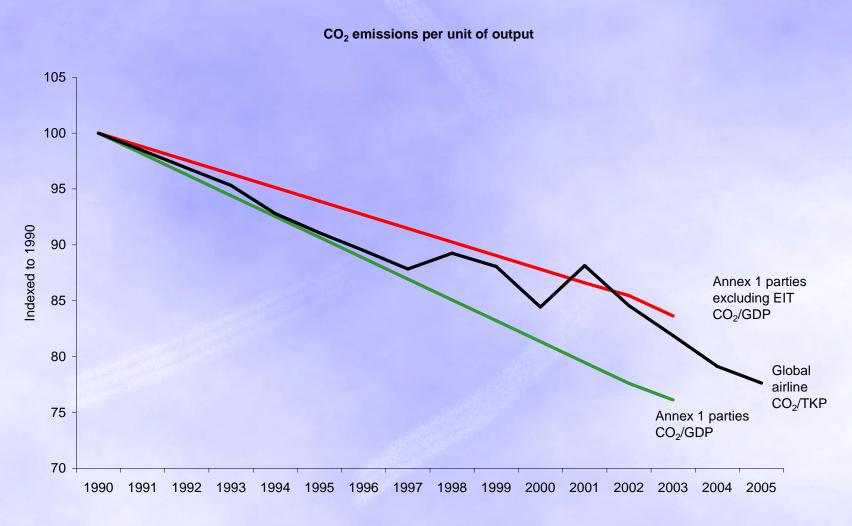


#### The way forward

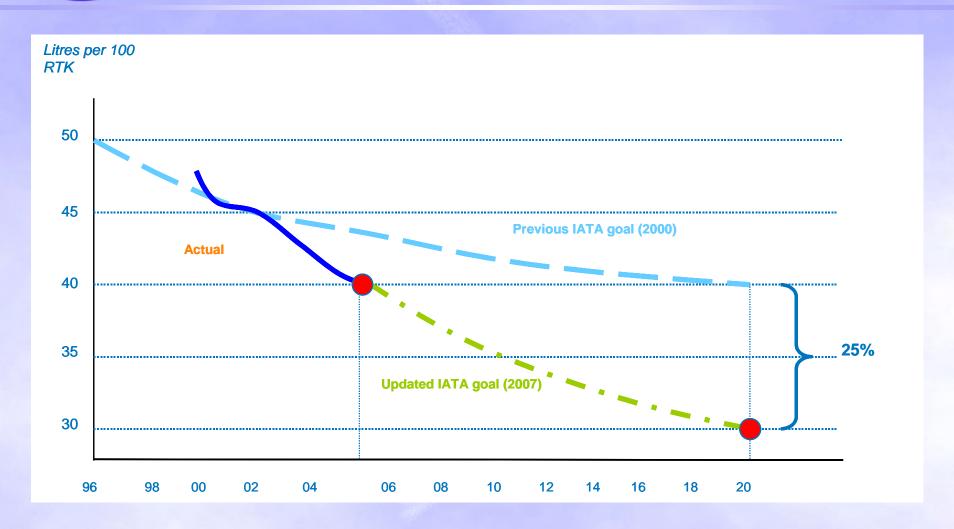


- Clarify the facts
- > Eliminate 'wasteful' emissions
- Recognise the limits of a 'price for carbon'
- Recognise the high cost of abatement
- Support a global approach to tradable caps
- Incentivise and support clean technology

## Clarify the facts – Good emissions performance

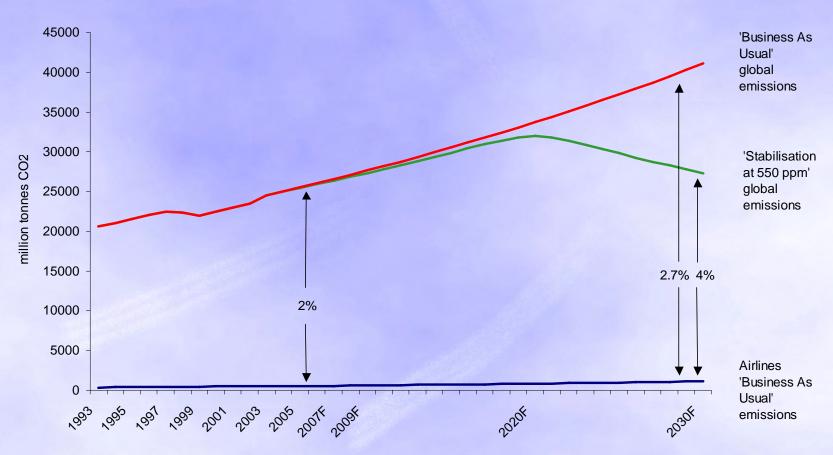


## Clarify the facts – Fuel efficiency gains advancing



## Clarify the facts There is a problem but it is small

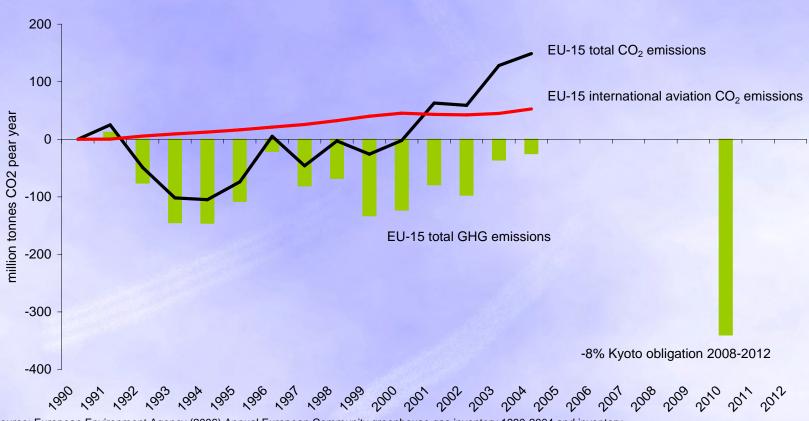






#### Clarify the facts – Let's get some perspective in Europe

#### Changes from 1990 baseline in EU-15 GHG and CO<sub>2</sub> emissions



Source: European Environment Agency (2006) Annual European Community greenhouse gas inventory 1990-2004 and inventory report 2006, EEA



#### Eliminate 'wasteful' emissions

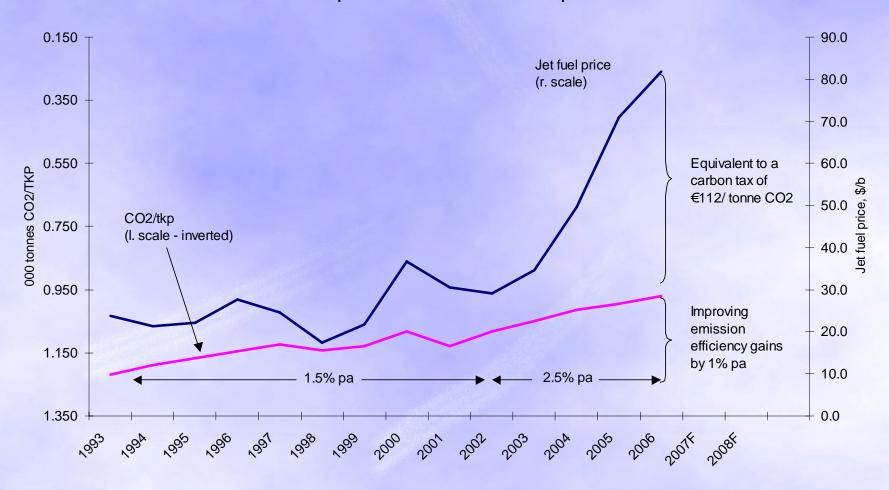


- >IPCC identified 8-18% 'wasteful' emissions
  - Inefficient airspace (6-12%)
    - Still no Single European Skies
  - Inefficient TMA management
  - Inefficient airport access
    - Government action required
  - Inefficient airline operations
    - Fuel price incentive + IATA 'Go teams'

### Recognise the limits to a 'price for carbon'



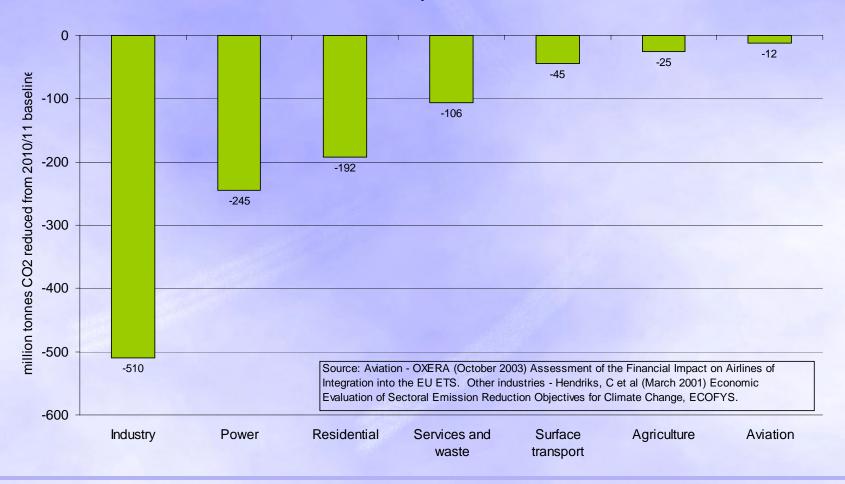
#### Impact of fuel shock on emissions/tkp





## Recognise the high cost of abatement by airlines

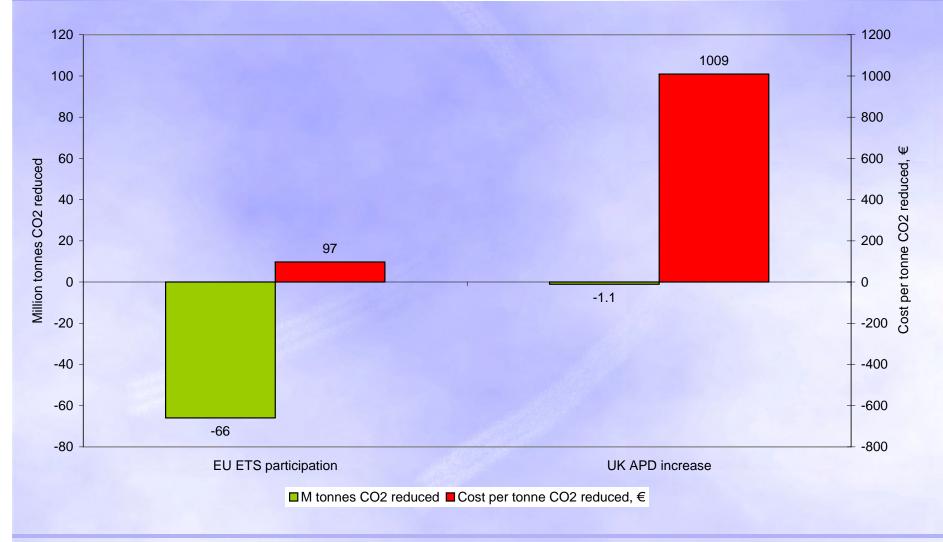
#### Emissions reductions in the EU possible at a cost of <€20/TCO2





#### Taxation is a blunt instrument







- Saves economic resources by abatement in sectors where most efficient
- Promotes development through CDMs
- > There must be equity with other sectors
- Most air travel is international so local or regional ETS distort competitiveness
- To work efficiently it must be global
- Support for ICAO's leadership



## IPCC highlights need to support new technology

- ➤ IPCC working group III in May 2007
  - 'The lower the stabilisation levels, especially 550 ppm or lower, the greater the need for more efficient R&D and investment in new technology.'
  - Government funding for most energy research programmes has been flat or declining for nearly 2 decades; now about half of 1980 levels.'

# The focus is shifting to incentivising new technology.

- Awareness that Kyoto/ EU ETS offer no longterm commitment or other R&D incentives
- **► US-Asia Pacific Climate Change Partners**
- > UK Energy Technologies Institute
- > EU Clean Sky joint technology initiative
- Climate change policies must be designed to maximise technology incentives