



# Scenarios and Options for a Second Commitment Period

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## International Discussions and Negotiating Context

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# Framework

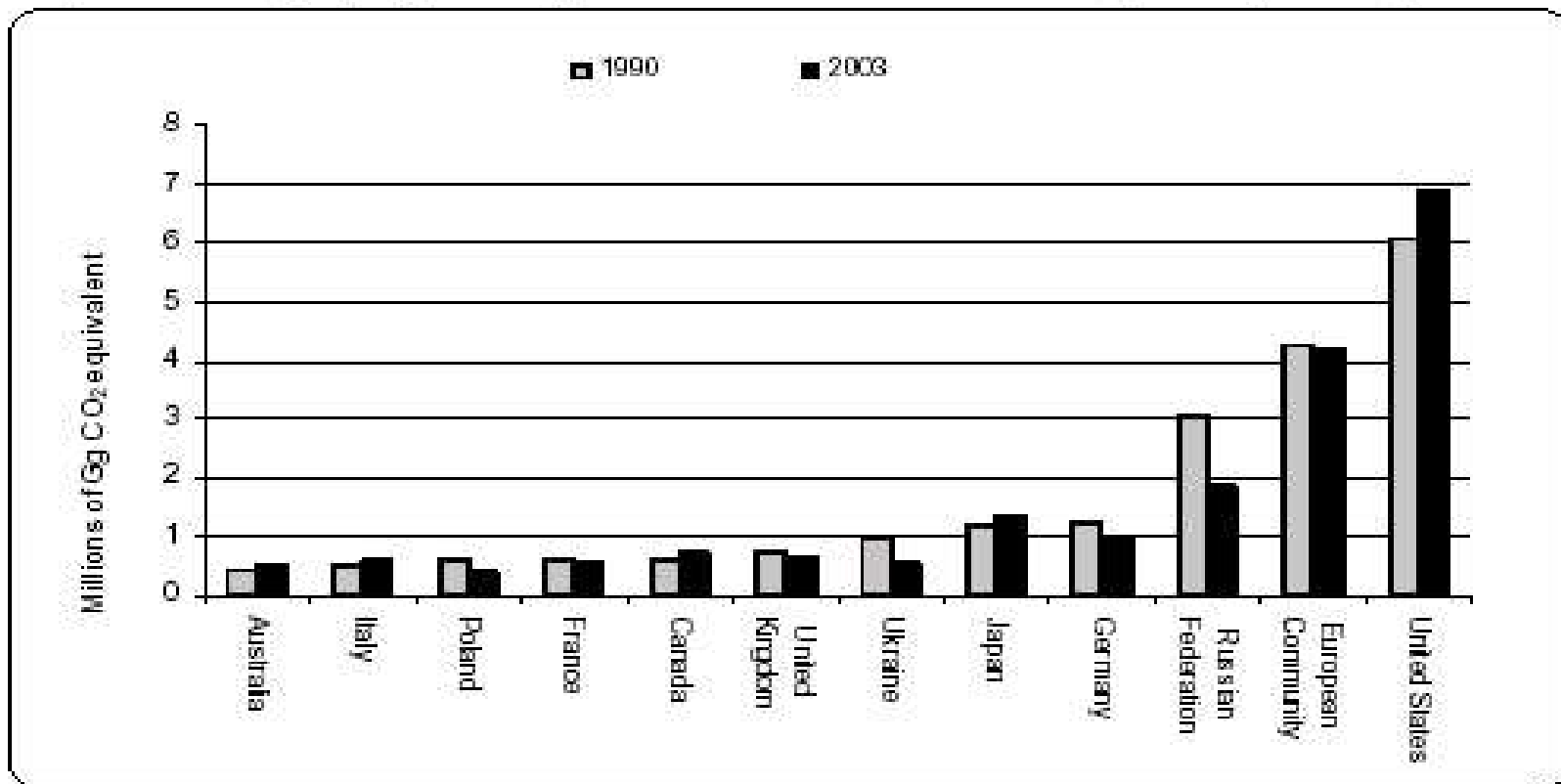
- **Convention** - aims to bring developed country GHG emissions ***back to 1990 levels*** toward stabilisation of concentrations
- **Kyoto** - aims to reduce overall developed country emissions by about ***5% below 1990 levels*** over ‘first commitment period’ 2008-2012
- **Kyoto anticipates ‘subsequent’ commitment periods, but does not specify duration or goal**

# Challenges

- **Major reductions needed** (IPCC Reports - 1995: stabilisation of CO<sub>2</sub> requires an immediate reduction of 50-70% and further reductions thereafter; 2001: GHGs need to be reduced to ‘a very small fraction of current emissions’)
- **Impacts** of climate change already being seen.
- **Some developed country** Convention Parties have decided not to ratify Kyoto Protocol – and thus are not working within a target (US, Australia)
- **Developing countries** that have ratified Kyoto do not have targets and have increasing emissions.

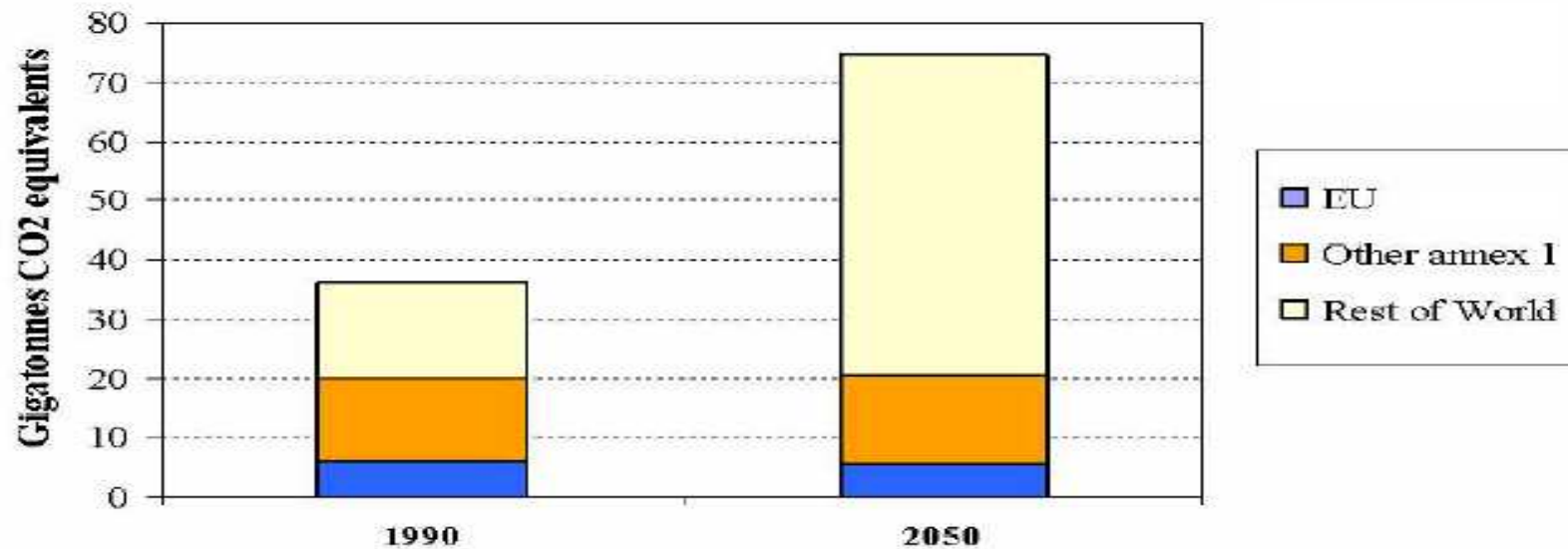
# Annex I Emission Trends

Figure 3.b. Total aggregate greenhouse gas emissions of individual Annex I Parties, (excluding LULUCF), 1990 and 2003





# Projected development of GHG emissions around the world



Source: Greenhouse gas reduction pathways in the UNFCCC process up to 2025, CNRS/LEPII-EPE, RIVM/MNP, ICCS-NTUA, CES-KUL (2003).



# Key challenges

1. How to stabilize atmospheric GHGs at an appropriate level?
2. How to secure *deeper* emission reductions by *more* countries?
3. How to address adaptation?

# What types of mitigation options are under consideration?

- **Absolute targets**
- **Sectoral targets**
- **Renewable energy targets**
- **Energy efficiency targets**
- **Carbon intensity targets**

# What mechanisms can be used to agree on Post-2012 commitments?

- top-down approach?
- bottom-up approach?
- menu approach?
- staged approach?

## What next?

- **Article 3.9** of the Kyoto Protocol requires Parties with targets to begin discussion of the second commitment period no later than 7 years before the end of the first commitment period (2005).
- With some countries not active in Kyoto, another **process** had to be found for engaging these countries.

## Two negotiating processes for discussing future commitments

- **Ad Hoc Open-ended Working Group (AWG)** to consider future commitments under Article 3.9 of the KP – targets for Annex I Parties
- **Dialogue** on long-term cooperative action to address climate change by enhancing implementation of the Convention – all Parties

## Inclusion of international aviation emissions within Post-2012 regime?

- International aviation emissions not presently within KP targets, due to lack of consensus on how to allocate responsibility among countries.
- Growth in emissions threatens progress under KP.
  - International aviation emissions up **51%**
  - EU aviation emissions up **73%** (1990 to 2003)
  - Int'l emissions from EU airports projected to be up **150%** by 2012 over 1990 levels - offsetting one quarter of reductions required by EU's Kyoto target.

# International Shipping?

- international maritime emissions also not included in KP targets
- emissions from developed countries as a whole decreased by 5% from 1990 to 2003
- emissions from EU-15 increased by ~ 35%
- **Again no easy fix:** reducing speed; higher quality fuels; improved voyage planning procedures; advances in hull shape, propulsion systems, injection systems; use of alternative energy sources.

## EU Questions re Post-2012

- Should the 3.9 discussion address just the next commitment period, or take a longer term view?
- What should the length of future commitment periods be?
- What will be the provisions for the use of flexible mechanisms?
- What will be the scope of the carbon market?
- How will sinks be treated under future commitment period(s)?
- Should there be changes to the sectors and sources of emissions covered (e.g. international bunker fuels)

# Thank you for listening.

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