

# OUTLINE FOR THE IPCC WORKING GROUP III CONTRIBUTION TO THE FOURTH ASSESSMENT REPORT

## CLIMATE CHANGE 2007: MITIGATION OF CLIMATE CHANGE

### Summary for Policy Makers

### Technical Summary

#### A. INTRODUCTION AND FRAMING ISSUES

##### 1. Introduction

- Article 2 of the Convention and mitigation
- Past, present, future, including previous IPCC reports
- Time scales
- Structure of the report, the rationale behind it, the role of Cross Cutting Themes and framing issues

##### 2. Framing issues

- The scope of the global climate change problem
- Climate change mitigation and sustainable development
- Mitigation, vulnerability and adaptation relationships
- Regional dimensions
- Technology research, development, deployment, diffusion and transfer
- Risk and uncertainty
- Distributional and equity aspects
- Cost and benefits concepts
- Decision making and implementation

Regional differentiation will be emphasized in all chapters in parts A, B, C and D as far as literature is available. However, this regional disaggregation may differ by sector and could be along different characteristics, such as level of development, national circumstances or geographical location.

#### B. ISSUES RELATED TO MITIGATION IN THE LONG-TERM CONTEXT

##### 3. Issues related to mitigation in the long-term context

###### Executive summary

- Emission scenarios: assessment of new literature since SRES
- Mitigation and stabilization scenarios and strategies, and costs and socio-economic implications (with appropriate uncertainties) including multiple gases
- Development pathways, trends and goals
- Role of technologies in long-term mitigation and stabilization: research, development, deployment, diffusion and transfer
- Interaction of mitigation and adaptation, in the light of climate change impacts and decision making under long-term uncertainties
- Linkages between short and medium term mitigation and long-term stabilization, including the implications of inertia, risk and uncertainty for decision making

## C. SPECIFIC MITIGATION OPTIONS IN THE SHORT AND MEDIUM TERM

Chapters 4-10 will follow the following template. Template issues will only be incorporated when relevant and when literature is available.

Executive summary

- Introduction
- Status of the sector, development trends including production and consumption, and implications
- Emission trends (global and regional)
- Description and assessment of mitigation technologies and practices, options and potentials (technical, economic, market and social), costs and sustainability
- Interactions of mitigation options with vulnerability and adaptation
- Effectiveness of and experience with climate policies, potentials, barriers and opportunities / implementation issues
- Integrated and non-climate policies affecting emissions of greenhouse gases
- Co-benefits of greenhouse gas mitigation policies
- Technology research, development, deployment, diffusion and transfer
- Long-term outlook / systems transitions, decision making; inertia and its relation with long-term/short-term choices, decision tools

### 4. Energy supply

### 5. Transport and its infrastructure (road, rail, aviation, shipping, including transport fuels)

### 6. Residential/commercial (including services)

### 7. Industry

### 8. Agriculture (including land use and biological carbon sequestration)

### 9. Forestry (including land use and biological carbon sequestration)

### 10. Waste management<sup>1</sup>

## D. CROSS SECTORAL, NATIONAL AND INTERNATIONAL DIMENSIONS

### 11. Mitigation from a cross-sectoral perspective

Executive summary

- Introduction, including system perspective, relationship with chapter 3, key issues across sectors and use of models/analysis
- Cross-sectoral mitigation options: description, characterization and costs
- Technology research, development, deployment, diffusion and transfer
- Synergies and trade-offs with other policies
- Overall mitigation potential and costs, including portfolio analysis and cross-sectoral modeling
- Macroeconomic effects
- Spill-over effects
- Assessment of bottom-up and top-down analysis
- Mitigation and adaptation - synergies and trade-offs

---

<sup>1</sup> Recycling of industrial waste would be covered in chapter 7 as was done in TAR.

## **12. Sustainable development and mitigation**

Executive summary

- Introduction
- Impact of mitigation policies on sustainable development goals
- Impact of sustainable development policies on climate change mitigation
- Determinants of mitigative capacity (link to adaptive capacity in Working Group II)
- Sustainable development and climate change mitigation - issues and opportunities

## **13. Policies, instruments and co-operative arrangements**

Executive summary

- Economic and other generic policy instruments (including taxes, emissions trading)
- Implementation of and interaction between policies
- Climate change agreements and other arrangements (including international co-operation and insights from and interactions with other inter-governmental arrangements)
- Insights from and interactions with private, local and non-governmental initiatives

**List of authors and reviewers**

**Glossary**

**Index**