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**PROGRESS OF WORKING GROUP III TOWARDS
THE IPCC FOURTH ASSESSMENT REPORT (AR4)**

(Submitted by the Co-chairs of Working Group III)

**PROGRESS OF WORKING GROUP III TOWARDS
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April 2006**

1. Special IPCC-TEAP Report on ‘Safeguarding the ozone layer and the global climate system: issues related to hydrofluorocarbons and perfluorocarbons’; outreach activities

- The full report has been published by Cambridge University Press and has become available in hard copy by November 2005, including the translations of the SPM and TS in 6 UN languages. The full report and SPM/TS translations are available at the IPCC website. The report is available by CD-ROM.
- The report has been welcomed and considered both by the UN Climate Convention and the Montreal Protocol. At SBSTA-22 in May 2005, submissions by Parties to the UNFCCC were requested with a view for further consideration of this issue at SBSTA -24 in May 2006. The report was also discussed at MOP-17 of the Montreal Protocol (Dec 2005). The report will be further presented and discussed at the Open Ended Working Group of the MP at its 26th session (Summer 2006).
- A Special issue of Ozone Action (UNEP, Sept 2005 nr 50) was devoted to this report. Presentations were held at conferences of branch organizations of the refrigeration and air-conditioning industry (twice at ASHRAE, US in summer 2005 and winter 2006, in the Netherlands (NVVK) and Germany (DKV)
- Michael Williams from UNEP is preparing a “UNEP simplified guide to the IPCC/TEAP “Special Report on Safeguarding the Ozone Layer and the Global Climate System”.

2. IPCC Special Report Carbon Dioxide Capture and Storage (SR CCS)

- The final report was adopted by the Eight Session of IPCC Working Group III in Montreal, Canada, from 22 to 24 September 2005, where the SPM was approved line-by-line. The IPCC accepted the underlying report on September 26, 2005, at its 25th Session.
- The report was compiled between July 2003 and August 2005 by around a hundred experts from 35 countries. The draft report was circulated for review by experts, which submitted valuable suggestions for improvement. This was followed by a second review by both governments and experts. In these two review rounds, about 10,000 comments were received from about 175 experts, governments and non-governmental organizations.
- After the approval of the Special Report, a press conference was held in Montreal with Dr Pachauri, Dr Renate Christ, Prof. Ogunlade Davidson, Dr Bert Metz, and local journalists. The press conference was simultaneously posted on the web and journalists could pose questions via the telephone. This event, and a press release by UNEP on the report, led to worldwide media attention in major newspapers.
- On the request of the UNFCCC, the report was presented on several occasions during COP11/MOP1. Dr Bert Metz held a presentation in the SBSTA session on November 29, 2005. The SBSTA welcomed the report and concluded to have a follow-up in-session workshop, will be held on May 20th, 2006, during SBSTA-24, to be reported at SBSTA- 25, Nov 2006 (see *agenda item 11, doc IPCC-25/Doc. 9, FCCC/SBSTA/2005/L.26*). In addition, a well-attended COP-11 side-event was held on November 30th, 2005, where Prof. Ogunlade Davidson and several authors presented the report in more depth.
- Since its approval, significant efforts for outreach of the SRCCS findings have been undertaken by the authors in the report, the Working Group III Co-chairs, and the Technical Support Unit. Presentations were and will be held in international bodies and during major conferences -over 20 presentations between Sept 05 and June 06. For instance, the report was presented twice during the Carbon Sequestration Leadership Forum, a US-led body for international cooperation on CO₂ capture and storage. The report was presented at the European Commission (Feb 2006,). It will be presented at a side event ant the UN

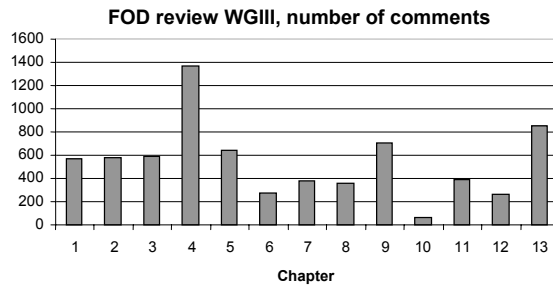
Commission on Sustainable Development (May 2006, CSD-14), and at the First Regional Symposium on Carbon Management for the Petroleum industry, Saudi Arabia (May 22, 2006), and will be presented during the 8th IEA Greenhouse Gas Technologies conference in Trondheim, Norway, in June 2006.

- The report is published by Cambridge University Press and is made available by IPCC via Internet (www.ipcc.ch) and CD-ROM.
- Michael Williams from UNEP is preparing a "UNEP Simplified guide to CCS".

3. IPCC Working Group III Contribution to the Fourth Assessment Report

- The review of the first-order draft of the Working Group III contribution to the Fourth Assessment Report was completed according to schedule between 28 November 2005 and 20 January 2006.
- As part of the FOD review, a combined lead-author/ Industry expert meeting was held in Cape Town, 17-19 January 2006, hosted by Eskom, and co-sponsored by IPCC. This meeting was the first of its kind in IPCC history. This meeting combined two opportunities: (i) to respond to the request for a follow-up meeting from the participants of the IPCC Industrial Technology Development and Transfer expert meeting in Tokyo, Japan (Oct 2004) and (ii) to discuss the first order draft (FOD) of the Fourth Assessment Report of Working Group 3. The meeting focused on the energy-intensive industry, energy-intensive consumer goods, and electricity production and energy carriers. The meeting turned out to be a well appreciated opportunity for an in-depth, face-to-face discussion between authors and industrial experts, obtaining a wider range of perspectives, key messages, new literature, addressing gaps in knowledge, and information on technologies not adequately covered in the FOD. A total of 60 participants attended. The meeting results were taken up under the expert review comments and reported to the Third Lead Author meeting in Beijing (14-17 Feb. 2006).
- For the written expert review, around 900 expert reviewers were approached; comments were received from 290 of them. They were especially critical of the Energy supply chapter (Ch. 4) which received nearly 1400 comments alone. (See Figure 1). At a late stage in the review the TSU together with the CLAs of Chapter 10 (on Waste Management) undertook an attempt to get additional reviewers for this chapter, but due to the relatively small expert community in this area, this was less successful.

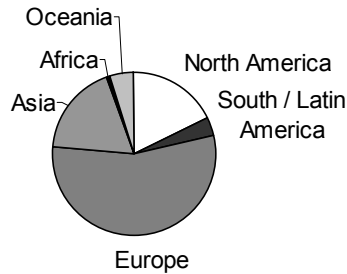
Figure 1



- Looking at the origin of the reviewers reveals that about half of them had a European nationality, a quarter came from the Americas, with the other nationalities having the last quarter.

Figure 2

WGIII FOD review: nationalities of expert reviewers



- Due to the use of a standard reporting spreadsheet the time needed for processing comments was limited to a few person-days. Quite some time was spent by the TSU on the storing and making the additional literature and other documents provided by expert reviewers available to the chapter teams.
- The Third Lead Author meeting was successful due to the excellent organization by the host, the China Meteorological Administration. From 14 to 17 February 2006, the authors spent their time on processing the comments, whereby interaction between the chapters happened in a number of pre-planned inter chapter workshops (on costs and potentials, Adaptation-Mitigation and Sustainable Development, technology, biomass, fluorinated gases and uncertainty) and numerous bilateral meetings. The development of the TS and SPM were put in the spotlight at the beginning and at the end of the meeting.
- The CLAs met a full day on February 18 to further develop the structure and content of the SPM.
- The Review Editors joined for the first time. Two separate meetings with the Co-chairs/TSU were held to discuss the management of the review process.
- Major efforts are being undertaken to improve the presentation of comparable information on potentials and costs of mitigation measures throughout the WGIII report. Following on the Beijing LA meeting, the discussion on Mitigation, Adaptation and Sustainable Development will be streamlined over the relevant chapters. Furthermore attention will be necessary for communicating uncertainty with the major conclusions. Work is being done to arrive at a consistent treatment of biomass throughout the chapters on agriculture, forestry, energy, and sustainable development. And finally the comment of several reviewers that the FOD was too long, will have to be addressed.
- A chapter team meeting of ch.11 with representatives from ch. 4-10 will discuss the important issue of costs and mitigation potentials in Cambridge, UK, 1-3 May 2006.,
- The SOD will be made available for the combined Government and Expert review by 24 July 2006.
- Like the meeting in Cape Town during the FOD review, an IPCC meeting is planned of lead authors and review experts, as a part from the Government and Expert review, with a focus on: energy technology experts from IEA, scientific representatives of environmental NGOs, and representatives of research institutions from 6-8 September, 2006, Paris, France, kindly hosted by the IEA.
- The results of the Government Expert review will be discussed at the next LA meeting in Christchurch, New Zealand, from 10-13 October 2006, plus 14 October for CLAs for discussing TS and SPM work. Based on the experience in Beijing a number of chapter teams will be meeting one day earlier on an informal basis, to have more time for processing comments and chapter team discussions.

4. Task Group New Emission Scenarios

- At IPCC-24, the Panel concluded that there was a need for new emission scenarios, to be produced by the scientific community, with facilitation or coordination by IPCC, to be available well before the completion of a possible AR5. The panel further decided to mandate a ‘Task Group on New Emission Scenarios (TGNES)’ that should prepare recommendations to IPCC-25 on new emission scenarios: possible contents, process and timeline, role of IPCC, and linkages to non-climate scenario activities. *(See for the report of the TGNES as well as a proposal from the IPCC chair docs IPCC-XXV/Doc.11 and IPCC-XXV/Doc.17)*. Part of the mandate was convening an expert meeting with broad representation of the scientific community, authors from WG I, II, III, TGICA, stakeholders and users including governments, to further shape the recommendations of the TGNES. This meeting was kindly hosted by the Institute of Prospective Technological Studies of the Joint Research Centre of the European Commission, in Seville, Spain, 20-22 March 2006. 85 participants from 36 countries participated.
- The issue is dealt with under agenda item 5 of the agenda of IPCC-25.

5. Technical Support Unit

- David de Jager, who was the project officer for the Special Report on Ozone-Climate, and Heleen de Coninck, who was the project officer for the Special Report on Carbon Dioxide Capture and Storage, left the TSU. Both will remain involved in some outreach activities of the SRs.
- Two new people joined the TSU of WG 3 as of November 2005: Peter Bosch, senior scientific officer, and Rutu Dave, scientific officer. Their main tasks will be the work on the WG3 AR4.