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# INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



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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)

## **Working Group III Progress Report**

### **1. Special Report on “Safeguarding the ozone layer and the global climate system: issues related to hydrofluorocarbons and perfluorocarbons” (SROC)**

- 1.1. The final report was considered by a joint Session of IPCC Working Groups I and III held in Addis Ababa, Ethiopia, from 6 to 8 April 2005, where the SPM was approved line-by-line and the underlying report was accepted by the IPCC Panel.
- 1.2. The report was compiled between August 2003 and April 2005 by 145 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 6600 comments were received from about 175 experts, governments and non-governmental organizations.
- 1.3. The special report has been prepared by invitation of the United Nations Framework Convention on Climate Change (UNFCCC) and by invitation of the Montreal Protocol on Substances that Deplete the Ozone Layer (MP). The report has therefore been presented to the Subsidiary Body for Scientific and Technological Advice of the UNFCCC (SBSTA-22, Bonn, May 19-27, 2005), and to the Open Ended Working Group of the Montreal Protocol (OEWG-25, Montreal, 27-30 June, 2005).
- 1.4. The report will be published by Cambridge University Press in September 2005 and will also be made available via internet ([www.ipcc.ch](http://www.ipcc.ch)) and CD-ROM.

### **2. Special Report on Carbon Dioxide Capture and Storage” (SRCCS)**

- 2.1. The fourth lead author meeting was held in Oviedo from 25-28 April 2005, Spain, hosted by the National Coal Institute of the Spanish Academy of Sciences and the Ministry for Science and Technology, at the kind invitation of the Spanish government. The results of the combined expert-government review were extensively discussed. Over 5000 comments were received from more than 30 countries, put together by 105 reviewers, including 25 governments. Much time was devoted to discussion of the Technical Summary and the Summary for Policy Makers.
- 2.2. The final version of the report and the draft Summary for Policy Makers has been sent to governments on July 26.
- 2.3. The IPCC WGIII Session for Approval of the SPM of the Special Report on Carbon Dioxide Capture and Storage is envisaged to take place from 22-24 September 2005 in Montreal, Canada. The SRCCS is envisaged to be accepted during the 24<sup>th</sup> IPCC Panel Meeting on September 26<sup>th</sup>.
- 2.4. After acceptance of the report, the report will be published by Cambridge University Press by the end of 2005. The report will also be made available via internet ([www.ipcc.ch](http://www.ipcc.ch)) and CD-ROM.

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

- 3.1. The WG3 Writing Team of the Fourth Assessment Report has prepared a Zero Order Draft (ZOD). This ZOD was reviewed both by the writing team and by invited international experts (about 2 – 5 per chapter). At the Second Lead Author Meeting in

Lima (6-9 June 2005), kindly hosted by the Peruvian government, the review comments on the Zero Order Draft were discussed and have been implemented. Furthermore, much attention during the discussion has been given to the implementation of the cross cutting themes that apply across the whole AR4, as well as to issues that cut across chapters.

- 3.2. The author team is currently preparing the First Order Draft. This will be made available for experts to be reviewed in the period 28 November 2005 to 20 January 2006.
- 3.3. During the Third Lead Author Meeting (14-17 February 2006, Beijing, China), the expert review comments will be discussed and the necessary revisions for the Second Order Draft decided.

#### **4. IPCC Joint WGII and WGIII Expert Meeting on Adaptation, Mitigation and Sustainable Development, La Reunion, France, 16-18 February 2005**

- 4.1. When approving the outlines of the Working Group contributions to the AR4 the IPCC Plenary at its 21<sup>st</sup> session agreed to put special emphasis on a number of cross-cutting issues to ensure a better and more coherent treatment of these issues across the various Working Group contributions. The interlinkages between Adaptation and Mitigation (AM) and Sustainable Development (SD) are two of those cross-cutting issues. In order to implement the ambitions regarding these cross-cutting issues the 21<sup>st</sup> Plenary approved holding an Expert Meeting on this issue. Given the busy schedule of author selection and preparing for the first lead author (LA) meetings, it was decided to first have a small planning meeting with key authors of both Working Group II and III, in advance of their first LA meetings. This meeting took place on September 1-2, 2004 in Amsterdam and resulted in a set of agreed principles for elaborating the WG II and III outlines with respect to AM and SD. The meeting also developed a proposal for the Expert Meeting on AM and SD that was held at Reunion Island, France from February 16-18, 2005, kindly hosted by the French government.
- 4.2. This meeting was attended by about 45 (C)LA's of both WG II and III. Eight keynote speeches were held on the first day. The second and third day were used for work sessions to determine gaps, overlaps and linkages between different WG II and III chapters on the issue of AM-SD. The authors greatly valued the interaction between WG II and III. The concrete results still have to be incorporated into the FOD of both WG II and III. To further discuss AM-SD issues and ensure good incorporation into the chapters and coordination between WGII and WGIII, a Virtual Coordination Group (VCG, an interactive website) has been created. A meeting report can be found at [www.ipcc-wg3.org](http://www.ipcc-wg3.org).

#### **5. IPCC Working Group III Expert Meeting and Workshop on Emission Scenarios**

- 5.1. In 2001 the Intergovernmental Panel on Climate Change (IPCC) published a set of scenarios in the Special Report on Emission Scenarios (SRES). These scenarios have been developed in a four year process with many scientists involved in the writing and the review process. The SRES scenarios played an important role in the Third Assessment Report (TAR) of the IPCC and will be used in the upcoming Fourth

- 5.2. Assessment Report (AR4). The 21st IPCC Panel session (November 2003) decided that no new baseline scenario would be prepared for the AR4, in view of the time it takes before new scenarios are taken up by the research community and used in publications. The 23rd Panel session decided that two meetings under the auspices of Working Group III on the issue of the use of scenarios should take place.
- 5.3. The first meeting aimed to discuss the use of SRES scenarios in AR4. The expert meeting was held from 12-14 January 2005 in Washington DC, kindly hosted by the US Government. The main task of the Meeting has been to facilitate interaction between the WGI, WGII and WGIII AR4 writing teams and aimed to assist in the process of assessing relevant literature by compiling and reviewing the current state of knowledge on climate emission scenarios. The meeting was attended by 71 participants. A meeting report can be found at: <http://www.ipcc.ch/meet/washington.pdf>.
- 5.4. The IPCC at its 22<sup>nd</sup> Session (9-11 November 2004) decided that possible future roles of IPCC in new scenarios (to be used for AR5) would be discussed at its 24<sup>th</sup> Session (26-28 September 2005, Montreal, Canada). To prepare for these discussions, a second meeting on new emission scenarios was held from 29 June – 1 July 2005, hosted by IIASA in Laxenburg, Austria. It was decided that this meeting should be an IPCC Workshop with about 100 participants selected by the Chair of IPCC from government and organization nominations. The objective of the workshop was to investigate the possible roles that IPCC could play in the development and assessment of new emission scenarios in the period after AR4. A meeting report can be found at: <http://www.ipcc.ch/meet/othercorres/ESWmeetingreport.pdf>.

## **6. TSU WG III staff**

- 6.1. Monique Hoogwijk, senior scientist at the TSU, has left the TSU as of September 1, 2005. The selection process of a replacement will be completed soon. After the finalization of the Special Report on Ozone and Climate in September, David de Jager, who has supported the preparation of the Special Report as senior scientist, will also leave the TSU.