The Intergovernmental Panel on Climate Change (IPCC)

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IPCC WG III Technical Support Unit

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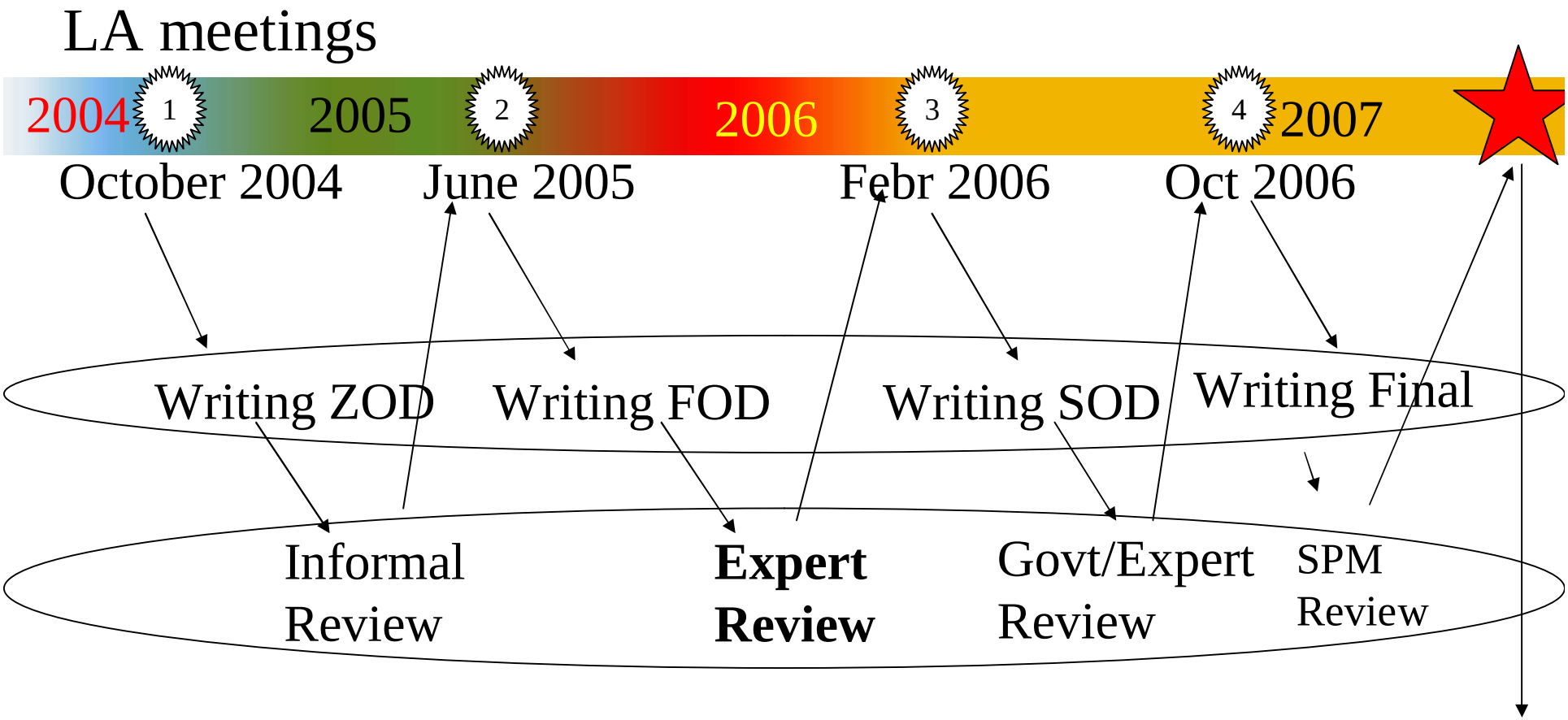
IPCC activities leading up to the AR4

- Fourth Assessment Report
  - Outlines for all Working Groups approved at IPCC Plenary in 2003
  - Lead author teams selected, first meeting WG III October 2004, Germany
  - To be finished 2007
- Special Report on Carbon Dioxide Capture and Storage (September 2005)
- Special Report on Safeguarding the Ozone layer and the global climate system: issues related to HFCs and PFCs (April 2005)

IPCC process

- Authors selected based on government /institute nominations
- Selection based on expertise, background and geographical balance, 40 % Developing Countries
- Extensive review process at different draft stages
  - 1. informal / internal
  - 2. external expert review (hundreds of experts)
  - 3. combined government and expert review
  - 4. government review of Summary for Policy makers
- Line-by-line approval of SPM by governments; acceptance underlying Report

Writing Process of AR4 WG3



Outline WG3 AR4

Introduction and framing Issues (1,2)

Issues related to mitigation in the long-term context (3)

Specific mitigation options in the short and medium term (4-10)

Energy Supply
Transportation
Residential
Industry
Agricultural
Forestry
Waste management

Cross sectoral national and international dimensions (11-13)

Mitigation from a cross-sectoral perspective
Sustainable development and mitigation
Policies, instruments and co-operative arrangements

IPCC Expert Meeting on Industrial Technology Development, Transfer and Diffusion

- Meeting took place September 21-23, 2004 Tokyo
- Attended by 86 experts from 21 countries
- 9 of the companies were members of the WBCSD
- Several international industry associations covering electricity, aluminium, nuclear, fertilizer, steel, cement and gas sectors

Rationale for the Meeting

- The Third Assessment Report (TAR) had limited inputs by industry
- Research, development, transfer, and diffusion of Technology will play a key role in both short and long term GHG mitigation
- In drafting AR4, IPCC wants more focus on the research, development, transfer diffusion of Technology than it was treated in the TAR
- Therefore Working Group III that is responsible for mitigation of climate change needs early and ongoing inputs from Industry Experts on the various aspects of Technology in drafting AR4
- Hence, this meeting being the start

IPCC EXPERT MEETING
INDUSTRIAL TECHNOLOGY DEVELOPMENT, TRANSFER AND DIFFUSION
sponsored by Ministry of Economy, Trade and Industry (METI), Japan

21-23 September, Tokyo, Japan

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)

WMO UNEP

Companies that attended Expert Meeting

- GM
- GE
- Rio Tinto
- Norsk Hydro
- Taiheyo Cement
- TEPCO
- AREVA
- Eskom
- Anglo American
- Toyota Motor

Why Should Industry Participate?

- IPCC scientific assessments written for policy makers and used as a basis for policy development that will impact on industry
- IPCC assessment reports receive worldwide coverage and influence customers of industrial products and services
- Therefore, industry view needs to be represented
- Participation will give access to latest thinking of world-wide academic community

Objectives of Expert Meetings

- To identify key drivers for industrial technology development, transfer and diffusion as to be addressed in the AR4
- To contribute to the building of the conceptual framework for the assessment and better understand role of technology in GHG mitigation
- To gain access to industrial information networks and improve the use of publicly available data sources from industry in the AR4
- To further improve IPCC – Industry relationship by involving industry experts in the AR4 process as contributing authors, expert reviewers, and participants, in future expert meetings

Selected sectors covered in the Meeting

- Energy-intensive industry (e.g. cement, refining, metals, chemicals)
- Energy-intensive consumer goods (e.g. passenger cars, air conditioners and lighting equipment)
- Electricity production and energy carriers (e.g. fossil, nuclear, renewables, less carbon intensive fuels, efficient conversion, hydrogen)

Questions to Address

- What are the driving factors of industrial technology development?
- What are the factors that drive or limit the process of transfer and diffusion of technologies?
- How to make accurate estimates of future cost and future market potential of technologies?

Deliverables from the Meeting

- A meeting report with an overview of key issues to be considered in AR4 with respect to technology development, transfer and diffusion.
- Papers brought to the meeting were peer reviewed and eligible for input into Working Group III and AR4.
- Recommendations on using industrial information networks in the preparation of AR4.
- A list of key contacts with expertise on industrial technology development, transfer and diffusion.
- Recommended further actions

Main conclusions from the meeting

- Identified many expert reviewers and potential contributing authors from Industry
- Many industry representatives wish to continue person-to-person interaction with the IPCC WG III authors (for example workshops, forums)
- International Industry Associations willing to act as clearing house for supply of literature and sectoral expert review contact
- 25 papers from several different industrial sectors presented and discussed

Main conclusions

- Meeting identified key drivers and limitations for mitigation technology development, transfer and diffusion ,.e.g.
  - Competitive advantages
  - Intellectual property rights –two ways
  - Estimating future costs and potentials very difficult yet necessary for policy makers

South Africa Eskom Meeting

- Held in Capetown January 17-19 2006 with 65 participants from 19 countries
- Respond to request follow-up ITDT meeting Tokyo 2004 with a similar breakdown of industry experts
- Add value to written expert review of WG3 AR4 report by dialogue authors – industry experts
- Face-to-face meeting as part of review process is novelty in IPCC history!
- Messages from this meeting were conveyed to the Lead Author Meeting in Beijing

Main conclusions

- Results of Tokyo and Capetown meetings were conveyed to the writing team of WG III AR4 at the Lead Author Meeting in Leipzig and Beijing
- Proceedings with peer reviewed papers were published from Tokyo meeting in 2005
- Investigating options for follow up and input by industry experts took place with an additional IEA/Industry/ENGO meeting in Paris in 2006 with Lead Authors

Conclusions

- We would appreciate your feedback and questions on how to continue the involvement of industry in future IPCC assessments
- We would also like to thank industry experts here who have contributed to the AR4

Contact For Information

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