



THE IPCC SPECIAL REPORT ON RENEWABLE ENERGY SOURCES AND CLIMATE CHANGE MITIGATION

PROFESSOR CATHERINE MITCHELL
UNIVERSITY OF EXETER



Overview



- The IPCC Process
- The Special Report on Renewable Energy and Climate Change Mitigation

WHAT IS THE IPCC



- The Intergovernmental Panel on Climate Change is a **scientific intergovernmental** body belonging to the United Nations
- It is the leading body for the assessment of Climate Change

THE ORGANISATION



- The IPCC is open to all member countries of WMO and UNEP
- Government delegations of all member countries are invited to attend the Plenary sessions of the Panel during which all main decisions are taken.
- The IPCC reports are also accepted, adopted and approved during the Plenary sessions.

Mr Rajendra Pachauri
IPCC Chairman

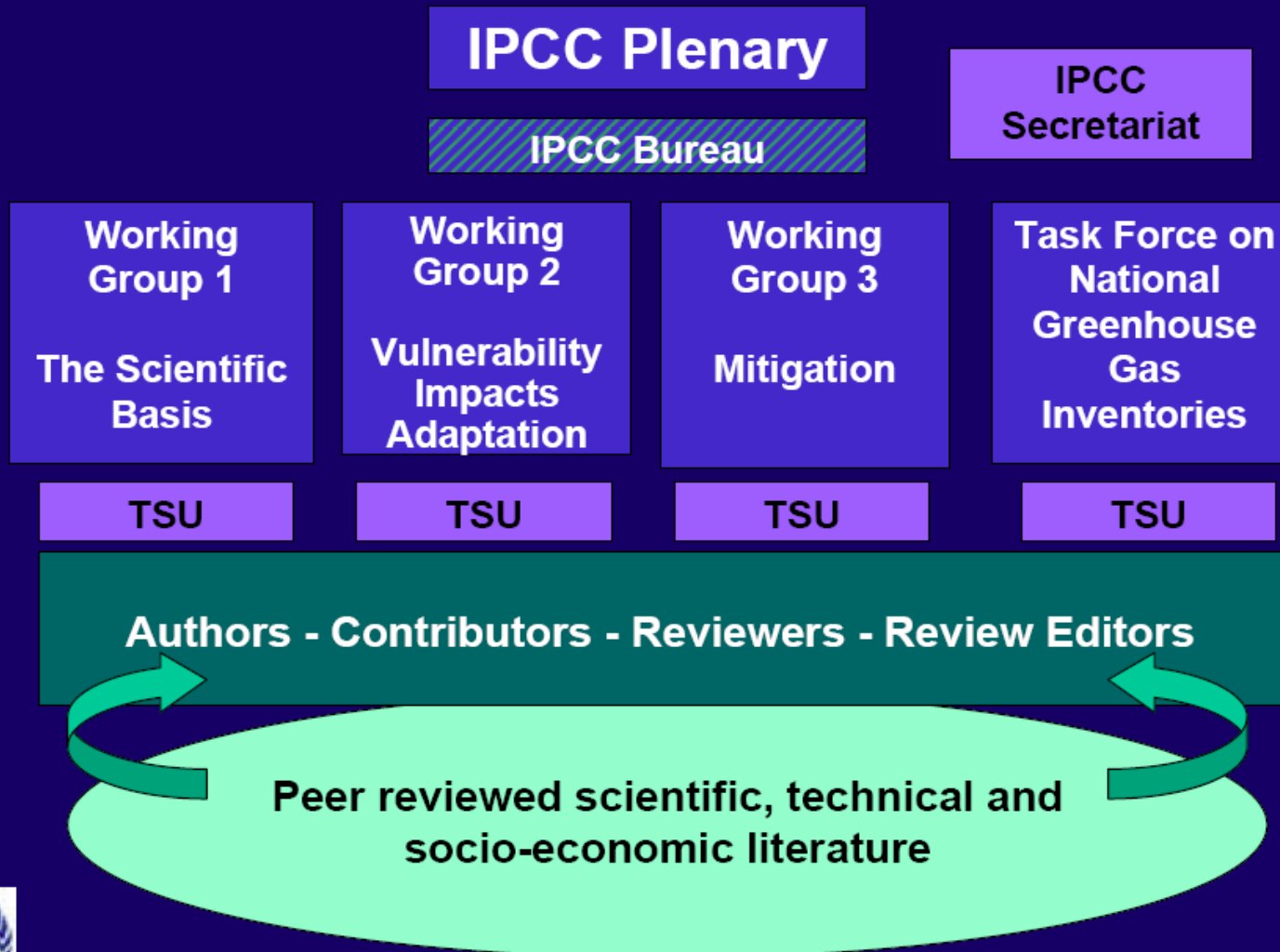


THE IPCC BUREAU



- The IPCC Chairperson and the bureau are elected by the Plenary
- It is at present composed by 30 members, experts on climate representing all regions
- Nominations for the position of the IPCC Chair, the IPCC Bureau and any Task Force Bureau are to be made by the government, a member of the IPCC

IPCC structure

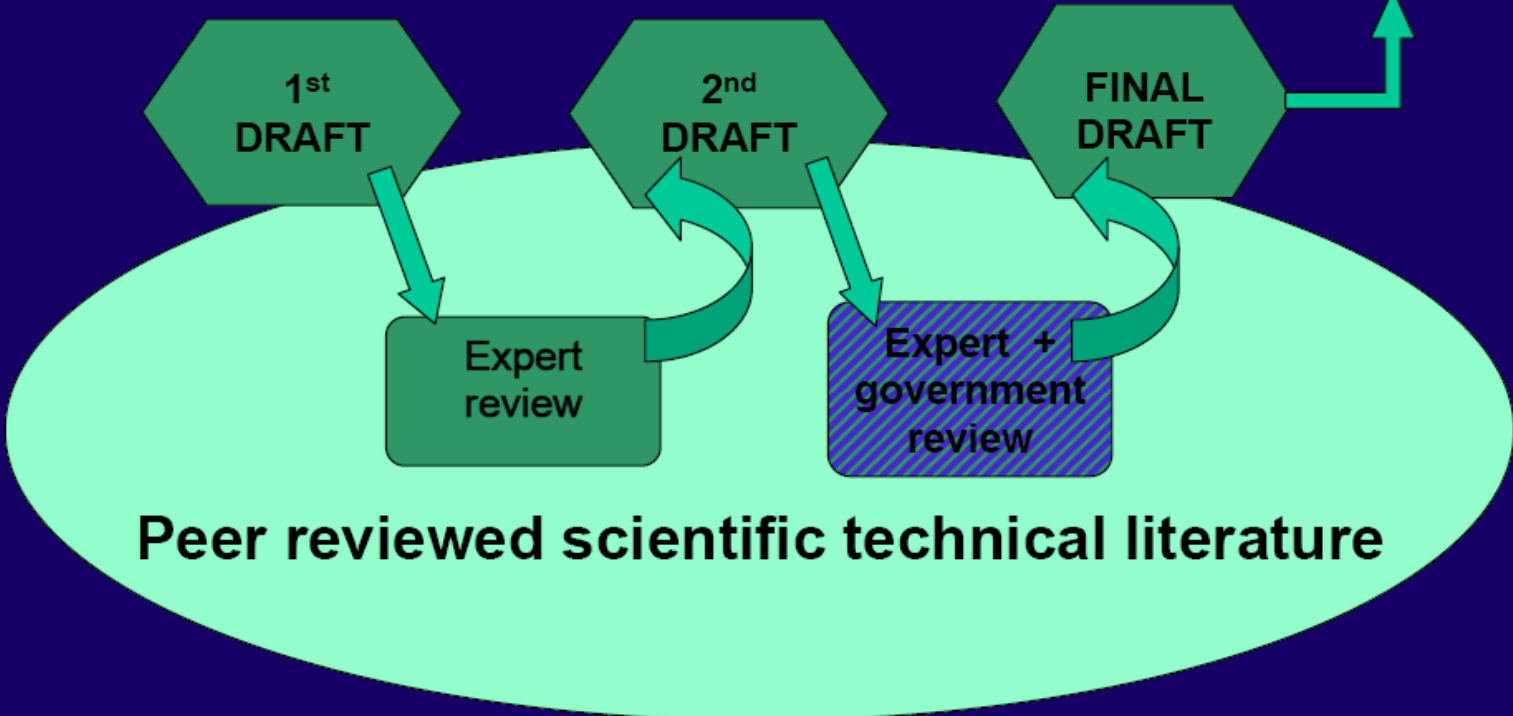


PLENARY
approves outline

Authors
selection

PLENARY
Accepts/approves
report

Government
distribution



Peer reviewed scientific technical literature

AUTHORS, CONTRIBUTORS, REVIEWERS & OTHER EXPERTS



- They are selected by the working group bureaus from nominations received from governments & participating organisations or identified directly because of their special expertise reflected in their publications & works
- The composition of lead author teams for chapters of IPCC reports shall reflect a range of views, expertise & geographical representation
- They work on voluntary basis

IPCC PRODUCTS



- **Assessment Reports** are the main product, they provide a comprehensive picture of the present state of understanding of climate change (1990-1995-2001-2007)
- **Special Reports** address & assess a specific issue (eg. Ozone layer, land use, technology transfer)
- **Methodology Reports** describe methodologies & practices for national greenhouse gas inventories and are used by parties to the UNFCCC to prepare their national communication.
- **Technical Papers** focus on a specific topic drawing material from other IPCC reports

KEY RULES FOR THE IPCC WORK:



- **COMPREHENSIVE** – all the latest relevant scientific literature published worldwide is assessed.
- **BALANCED** – differing views are reflected in the reports.
- **OPEN** – wide circulation process among experts from all regions and relevant disciplines.
- **TRANSPARENT** – strict clear procedures & observer organisations



THE IPCC OUTREACH MANDATE

The main targeted audience for the dissemination of the reports are the decision makers, not the general public

What the IPCC can do

YES

- Facilitate liaison with experts, arrange their active involvement in outreach activities and interviews with the press
- Develop and review communication products; facilitate search of information in the reports

NO

- 'Translate' the scientific/technical language into a popular one
- Advocate and/or comment on government decisions and policies

IPCC Assessment Reports (AR)



- 4 ARs so far: 1990, 1995, 2001, 2007
- Each has 3 volumes:
 - WGI: Climate change science
 - WGII: Impacts and adaptation
 - WGIII: Mitigation
 - Each with a Summary for Policy makers
- Plus a Synthesis Report to summarise
- Various Special Reports

**Intergovernmental Panel on Climate Change
Fourth Assessment Report**

Climate Change 2007: Synthesis Report

Summary for Policymakers

NOTE: Un-edited copy prepared for COP-13. The entire report is subject to final copy-edit prior to its final publication.

Based on a draft prepared by:
Lenny Bernstein, Peter Bosch, Osvaldo Canziani, Zhenlin Chen, Renate Christ, Ognulade Davidson, William Hare, Saleemul Huq, David Karoly, Vladimir Kattsov, Zbigniew Kundzewicz, Jian Liu, Ulrike Lohmann, Martin Manning, Taroh Matsuno, Bettina Meene, Bert Metz, Monirul Miza, Neville Nicholls, Leonard Nurse, Rajendra Pachauri, Jean Palutikof, Martin Parry, Dahe Qin, Nijavalli Ravindranath, Andy Reisinger, Jiawen Ren, Keywan Riahi, Cynthia Rosenzweig, Matilde Rusticucci, Stephen Schneider, Youba Sokona, Susan Solomon, Peter Stott, Ronald Stouffer, Toshi Sugiyama, Rob Swart, Dennis Tirpak, Coleen Vogel, Gary Yohe

Table of Contents:

Introduction	1
1. Observed changes in climate and their effects	1
2. Causes of change	4
3. Projected climate change and its impacts	6
4. Adaptation and mitigation options	14
5. The long-term perspective	19

References in curly brackets { } in this Summary for Policymakers refer to sections, tables and figures in the longer report of this Synthesis Report.

SPECIAL REPORT ON RENEWABLE ENERGY & CLIMATE CHANGE MITIGATION



- One of two Special Reports feeding into AR5
- Due to be published early 2011
- CM = Co-ordinating Lead Author Chapter 11
 - Policy, Financing and Implementation

CHAPTERS



- 1 RE and CC
- 2 Bioenergy
- 3 Direct Solar Energy
- 4 Geothermal
- 5 Hydropower
- 6 Ocean Energy
- 7 Wind Energy
- 8 Integration of RE into Present and Future energy Systems
- 9 RE in Context of Sustainable Development
- 10 mitigation potential and Costs
- 11 Policy Financing and Implementation