

The current IPCC Assessment Cycle and how business can get involved

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COP23

12 November 2017

ipcc

INTERGOVERNMENTAL PANEL ON climate change



WMO

UNEP

Main Products during the AR6 cycle

The Special Reports

Special Report on Global Warming of 1.5°C (SR15)



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11



Special Report on Ocean and Cryosphere (SROCC)

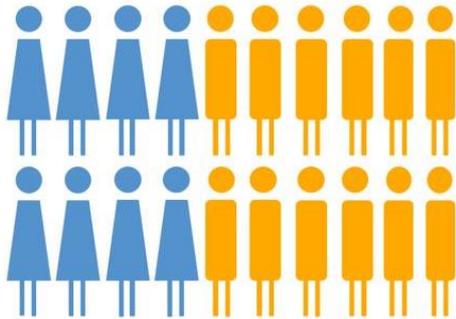


Special Report on Climate Change and Land (SRCCL)



Special Report on Global Warming of 1.5°C (SR15)

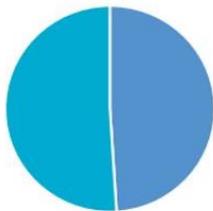
The authors:
Over 560 nominations
86 experts selected



38% are women

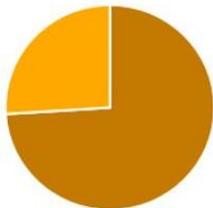
62% are men

51% are from developing countries



49% are from developed countries

26% are new to the IPCC process



74% have IPCC experience



Summary for Policy Makers

- Chapter 1:** Framing and context (15 pages)
- Chapter 2:** Mitigation pathways compatible with 1.5°C in the context of sustainable development (40 pages)
- Chapter 3:** Impacts of 1.5°C global warming on natural and human systems (60 pages)
- Chapter 4:** Strengthening and implementing the global response to the threat of climate change (50 pages)
- Chapter 5:** Sustainable development, poverty eradication and reducing inequalities (20 pages)

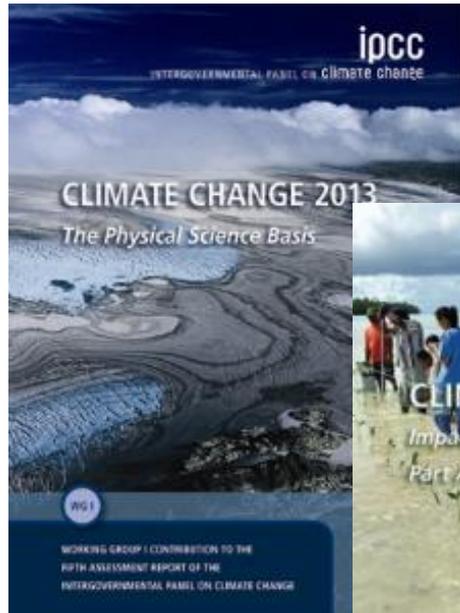
Boxes, Case Studies and Cross-Cutting Themes
FAQs

Main Products during the AR6 cycle

Physical
Science Basis

2021

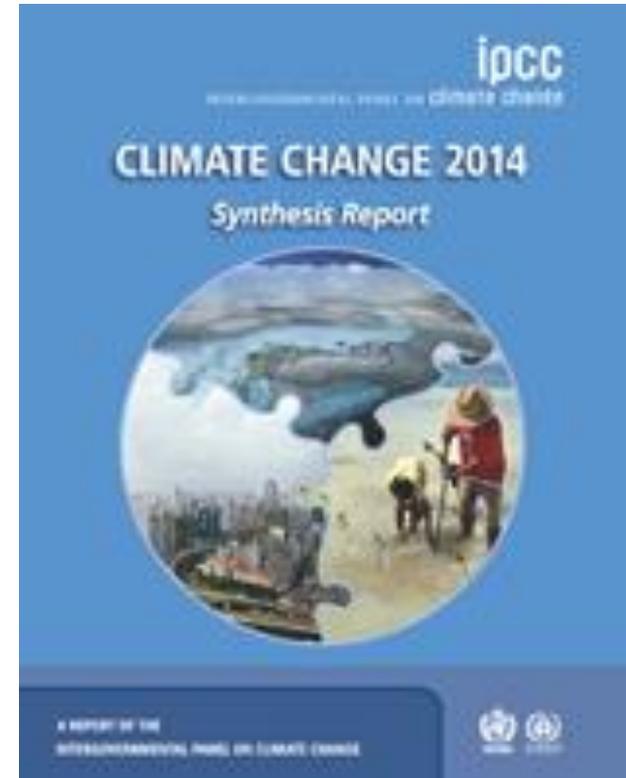
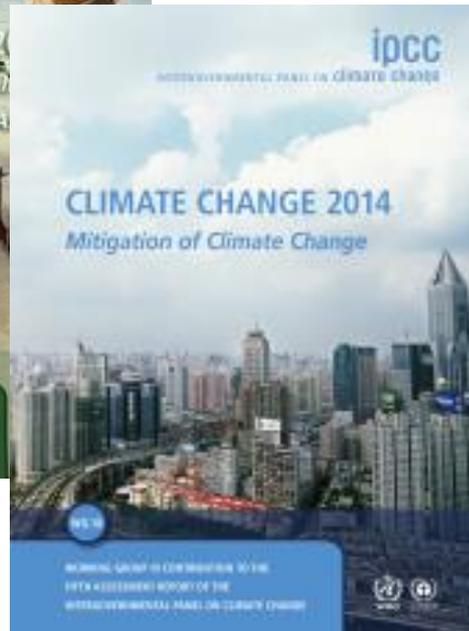
2022



Impacts,
Adaptation and
Vulnerability



Mitigation



Working Group III: Mitigation of climate change

Aspirations of new Bureau



- Deepen engagement between Working Groups
- Enhance participation of developing country experts
- Strengthen links between the insights obtained from high level integrated assessment modelling and the **concrete steps required to mitigate climate change**
- Increase **policy relevance** and neutrality **by incorporating inputs from business, industry and finance**
- Connect to **domestic challenges** such as job creation, economic diversification, health, innovation and technology development, energy access and poverty alleviation

IPCC Sixth Assessment Report

Scoping Meeting



1 - 5 May 2017

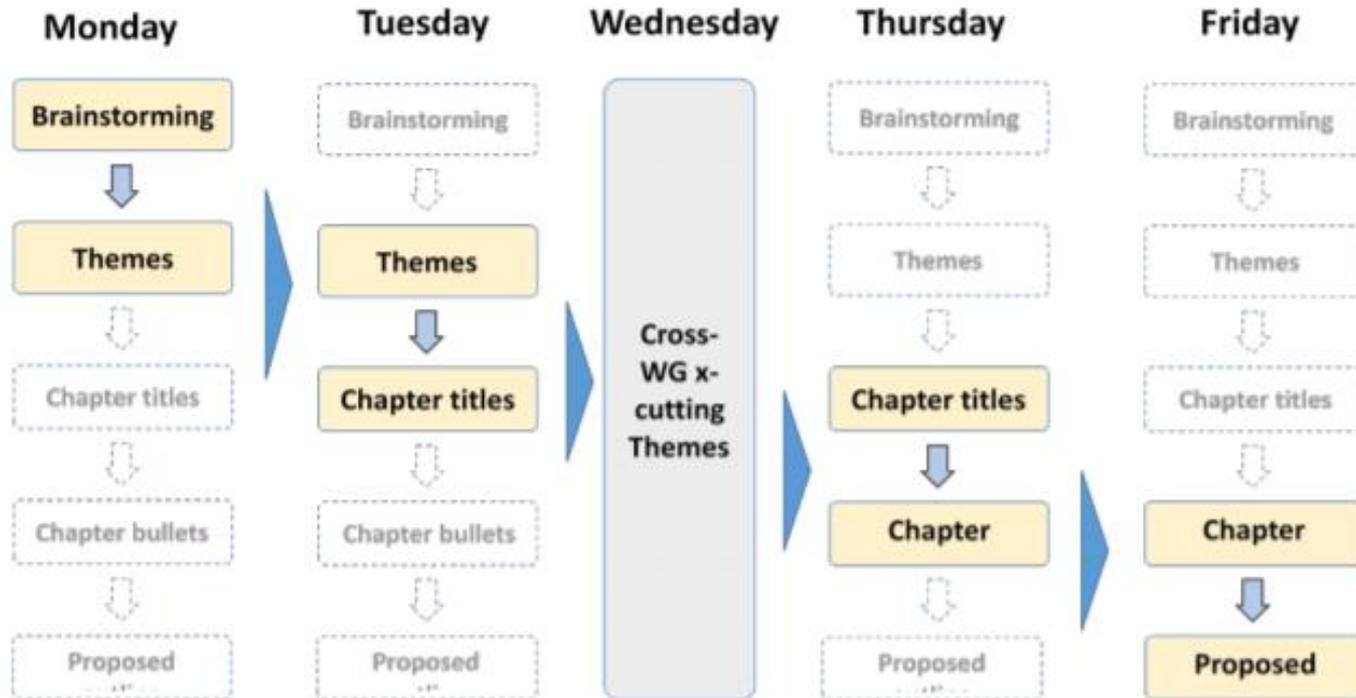
United Nations
Economic Commission for Africa

Addis Ababa, Ethiopia



AR6 scoping meeting May 2017

- Structured bottom-up process: no draft outline to start the meeting.
- Outline emerged over the course of the week through interactive series of discussions.



Approving the outlines of AR6 September 2017



Working Group III Challenges for AR6:

- To assess the linkages between high-level climate stabilization goals and scenarios on the one hand and the practical steps needed in the short- and medium-term to make the realisation of these goals possible.
- To make greater use of social science disciplines, in addition to economics, especially for gaining insight into issues related to lifestyle, behaviour, consumption, technological choices and socio-technical transitions.
- To link climate change mitigation better to other agreed policy goals nationally and internationally (e.g. the Sustainable Development Goals - SDGs).



How to get involved in AR6: Report writing process

Coordinating Lead Author
Lead Author
Review Editor
Contributing Author

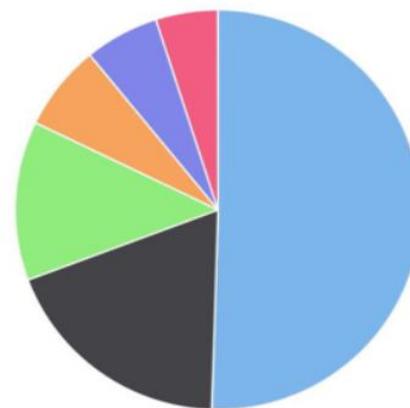
Expert Reviewer



Key statistics

- **Two thousand experts** from 124 different countries registered to be reviewers (based on citizenship)
- Overall, the First Order Draft of the Special Report on 1.5 °C attracted **12,895 review comments**.
- These comments came from 489 expert reviewers representing **61 different countries**.
- Based on citizenship, half of expert reviewers were from Europe (51%). North America, Central America and the Caribbean accounted for a further 19%, Asia (13%), South America (7%), South West Pacific (6%) and Africa (5%).
- A third (31%) of expert reviewers were female, two thirds (69%) were male.

How well were different regions represented in the FOD expert review?



● Europe ● North America, Central America & the Caribbean ● Asia
● South America ● South West Pacific ● Africa

How to get involved in AR6: Meetings, workshops



Shaping the industry

A review of International Petroleum

Energy policy and the transition to a low carbon future



Speakers at the 'Pathways to a better energy system' session, chaired by Professor Jim Skea CBE, President, Energy Institute and Co-chair of the IPCC Working Group III, fielded a number of questions from the floor during what proved to be a lively session during IP Week

Speaking at IP Week's 'Pathways towards a better energy system' session, Dr Hoesung Lee, Chair, Intergovernmental Panel on Climate Change (IPCC), confirmed that in late 2018, the IPCC is due to provide a special report on the impacts of global warming of 1.5°C. The following year, two additional IPCC reports will be released that will fill in the knowledge gaps on land and sea. 'We need to develop a greater understanding of climate change mitigation,' he said. But it is clear that a lot needs to be done to decarbonise both energy and the economy.

New rules proposed

In December 2016, the European Commission released its 'Clean Energy Package', which contains proposals for new rules for a consumer-centred clean energy transition. The most substantial measures concern renewables and energy efficiency and amendments to the electricity market design. The proposal includes a revised Renewable Energy Directive. It identifies six key areas for action – further deployment of renewables in the electricity sector; increasing renewables in the heating and cooling sector; decarbonising and diversifying the transport

Striding forth

ard march towards a low carbon world is unstoppable, writes Nyadike.

Oil and gas will play an important part in the overall global energy

A surprising number of oil industry executives seem remarkably relaxed about the role of tougher fiscal measures on their industry to act as a driver towards achieving low carbon energy. A poll conducted among delegates at the IP event asked 'What is the most



How to get involved in AR6

26-28 April 2017	Expert Meeting on Mitigation, Sustainability and Climate Stabilization Scenarios
1-5 May 2017	AR6 Scoping Meeting
6-10 Sept	Panel consideration of outline for AR6
15 Sept – 27 Oct 2017	Call for CLA/LA/RE Nominations
29 Jan – 4 Feb 2018	Decision on selection of CLA/LA/RE
1-5 Apr 2019	1st Lead Author Meeting (LAM1)
30 Sep – 4 Oct 2019	2nd Lead Author Meeting (LAM2)
9 Dec 19 – 31 Jan 20	1st Order Draft (FOD) Expert Review
30 Mar – 3 Apr 2020	3rd Lead Author Meeting (LAM3)
1 Jun – 24 Jul 2020	2nd Order Draft (SOD) Expert Review
19-23 Oct 2020	4th Lead Author Meeting (LAM4)
1 Feb – 26 Mar 2021	FGD Government Review of SPM
12-14 Jul 2021	IPCC acceptance/adoption/approval

Scoping

Author Selection

Drafting and Review

AR6 Approval

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#AR6

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INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



Challenges for AR6

Opportunities to improve:

- Communications of AR6, through improved graphical presentation and language, more use of case studies and simplification of the scientific jargon.
- Cross-working group coordination, addressing **cross-cutting issues** systematically throughout the Special Reports and Working Group contributions to AR6:

Regional aspects

“Geoengineering”

Global
stocktake

Institutions and
governance
including cities

Scenario
analysis

Adaptation and mitigation
synergies

Consistent analysis
of risk and uncertainty

Working Group III: Mitigation - explained

Framing (1 chapter)

1. Introduction and framing

Set up sustainable development as key framing concept

High-level assessment of emission trends, drivers and pathways (3 chapters)

2. Emissions trends and drivers

3. Mitigation pathways compatible with long-term goals

4. Mitigation and development pathways in the near- to mid-term

Balancing sources and sinks/warming levels

NDCs, emissions peaking, mid-century long-term low greenhouse gas emission development strategies

Sectoral chapters (8 chapters)

5: Demand, services and social aspects of mitigation

6: Energy systems

7. Agriculture, Forestry, and Other Land Uses

8. Urban systems and other settlements

12. Cross sectoral perspectives

9. Buildings

10. Transport

11. Industry

Orients sectors to human needs

The sectoral core: maps on to inventories

Responses not captured by sectoral framing

Institutional drivers (2 chapters)

13. National and sub-national policies and institutions

14. International cooperation

Institutions, policies and cooperation

Financial and technological drivers (2 chapters)

15. Investment and finance

16. Innovation, technology development and transfer

Financial flows + technological innovation

Synthesis (1 chapter)

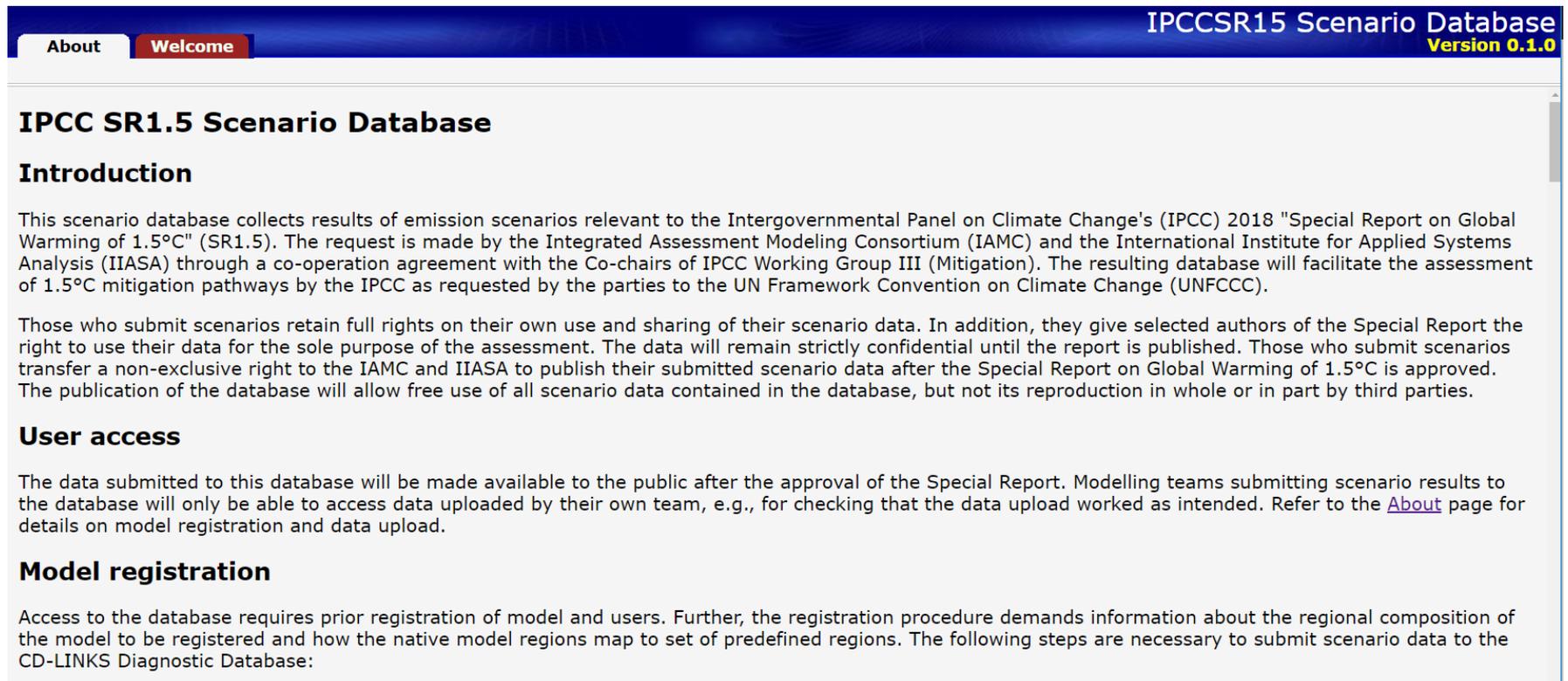
17. Accelerating the transition in the context of sustainable development

Synthesis sustainable development in different geographical scales

Scenarios in the 6th Assessment Cycle

Scenarios database for SR15, managed by IIASA. Will be public when SR15 is approved.

Plans for scenarios database in AR6.



IPCCSR15 Scenario Database
Version 0.1.0

About Welcome

IPCC SR1.5 Scenario Database

Introduction

This scenario database collects results of emission scenarios relevant to the Intergovernmental Panel on Climate Change's (IPCC) 2018 "Special Report on Global Warming of 1.5°C" (SR1.5). The request is made by the Integrated Assessment Modeling Consortium (IAMC) and the International Institute for Applied Systems Analysis (IIASA) through a co-operation agreement with the Co-chairs of IPCC Working Group III (Mitigation). The resulting database will facilitate the assessment of 1.5°C mitigation pathways by the IPCC as requested by the parties to the UN Framework Convention on Climate Change (UNFCCC).

Those who submit scenarios retain full rights on their own use and sharing of their scenario data. In addition, they give selected authors of the Special Report the right to use their data for the sole purpose of the assessment. The data will remain strictly confidential until the report is published. Those who submit scenarios transfer a non-exclusive right to the IAMC and IIASA to publish their submitted scenario data after the Special Report on Global Warming of 1.5°C is approved. The publication of the database will allow free use of all scenario data contained in the database, but not its reproduction in whole or in part by third parties.

User access

The data submitted to this database will be made available to the public after the approval of the Special Report. Modelling teams submitting scenario results to the database will only be able to access data uploaded by their own team, e.g., for checking that the data upload worked as intended. Refer to the [About](#) page for details on model registration and data upload.

Model registration

Access to the database requires prior registration of model and users. Further, the registration procedure demands information about the regional composition of the model to be registered and how the native model regions map to set of predefined regions. The following steps are necessary to submit scenario data to the CD-LINKS Diagnostic Database: