



IPCC Sixth Assessment Report (AR6) Role of Working Group III (Mitigation)

UNFCCC Technology Executive Committee
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INTERGOVERNMENTAL PANEL ON climate change



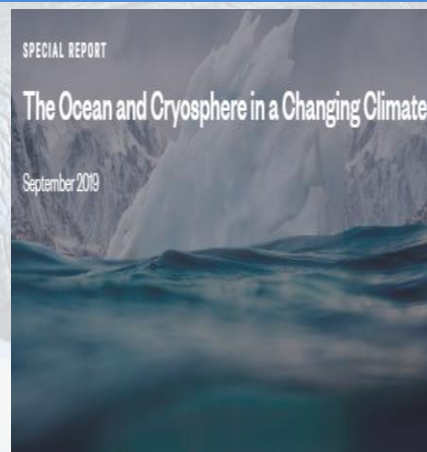
Outline

- Status update of AR6 Working Group (WG) III
- AR6 WG III Scope
- Topics related to innovation, technology development and transfer
- Next steps in the process

IPCC organisation

- Working Group I (WGI): observed and projected changes in climate
- Working Group II (WGII): vulnerability, impacts, and adaptation related to climate change
- Working Group III (WGIII): options for mitigation of climate change
- Task Force on National Greenhouse Gas Inventories (TFI): internationally-agreed methodology and software for the calculation and reporting of national GHG emissions and removals

IPCC outputs in AR6



**2019 Refinement to the
2006 IPCC Guidelines for
National Greenhouse Gas
Inventories**



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Outline of AR6 WG-III Report

- 1 Introduction and Framing
- 2 Emissions trends and drivers
- 3 Mitigation pathways compatible with long-term goals
- 4 Mitigation and development pathways in the near- to mid-term
- 5 Demand, services and social aspects of mitigation
- 6 Energy systems
- 7 Agriculture, Forestry and Other Land Uses (AFOLU)
- 8 Urban systems and other settlements
- 9 Buildings
- 10 Transport
- 11 Industry
- 12 Cross sectoral perspectives
- 13 National and sub-national policies and institutions
- 14 International cooperation
- 15 Investment and finance
- 16 Innovation, technology development and transfer
- 17 Accelerating the transition in the context of sustainable development

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Chapter 16: Innovation, technology development and transfer

- Key findings from AR5 and recent developments
- Role of innovation, technology development, diffusion and transfer in contributing to sustainable development and the aims of the Paris Agreement, including mitigation pathways
- Innovation and technology as systemic issues, evaluating literature on cases of technological innovation systems and innovation policy
- Assessment of international institutions partnerships and cooperative approaches relevant to technology, innovation and R&D
- Capacity for transformative change, including capabilities for innovation, engineering, governance, R&D cooperation and deployment incentives

Chapter 16: Innovation, technology development and transfer

- Assessment of experiences with accelerating technological change through innovation policy for climate change at the national level, including successful case studies
- Specific challenges in emerging economies and least-developed countries, e.g. SIDS and land-locked countries
- Acceptability and social inclusion in decision-making, communication and information diffusion
- Characterisation and implications of new disruptive technologies
- Links to adaptation and sustainable development (including co-benefits, synergies and trade-offs)

AR6 Synthesis Report Proposed Outline

- Section 2: Current Status and Trends
 - “Current status of adaptation and mitigation efforts, finance, capacity building and technology, and implications for sustainable development”
- Section 4: Near Term Responses in a Changing Climate
 - “Supportive conditions and means, including finance and investment, capacity, institutional arrangements, international cooperation, technological innovation and technology transfer, and behavioural aspects across a range of actors

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Next steps in the WG III report

2021

JAN 18 January – 14 March
Government & Expert Review of the Second Order Draft & the First Draft of the Summary for Policymakers (SPM)

APR 19 – 23 April
Fourth Lead Author Meeting (LAM4), virtual

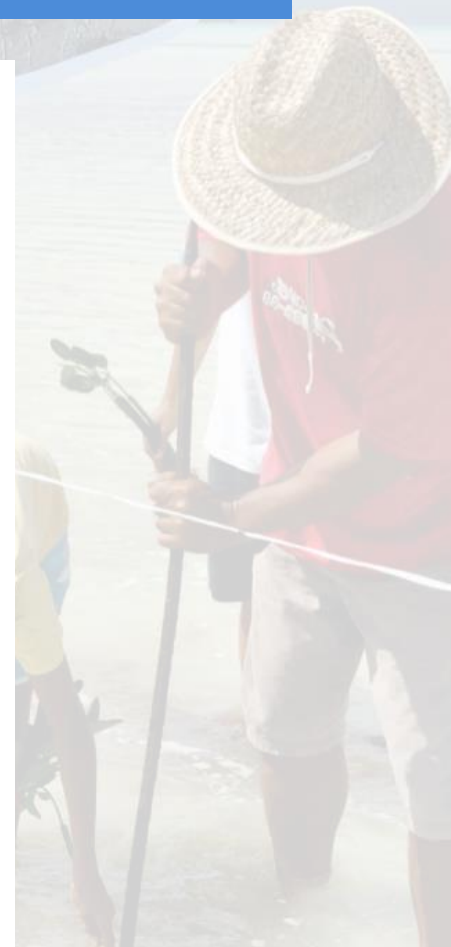
OCT 11 October
Literature deadline: cut-off date for accepted papers to be included in the assessment

NOV 29 November 2021 – 30 January 2022
Final Government Distribution and Government review of SPM

MAR 21-25 March 2022, PROVISIONAL*
Approval Plenary, Location **TBC**

2022

* Final dates of approval plenaries are provisional and will be determined based on suitable venue availability





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