



IPCC WGIII AR7

Co-Chairs



Co-Chair, Working Group III

Joy Jacqueline Pereira



Co-Chair, Working Group III
UNITED STATES OF
AMERICA

Katherine Calvin



WGIII Focus

 Working Group III focuses on climate change mitigation, assessing methods for reducing greenhouse gas emissions, and removing greenhouse gases from the atmosphere.

Seventh Assessment Cycle | Timeline

intergovernmental panel on climate change



Special Report

on Climate Change and Cities (early 2027)

Methodology

Report on Short-lived Climate Forcers (by 2027) Seventh
Assessment
Report
Working Group
I, II, & III
contributions

Methodology
Report on
Carbon Dioxide
Removal
Technologies

Technologies, Carbon Capture Utilization and Storage (by end of 2027) Update on 1994
Technical
Guidelines on
Impacts,
Adaptation and
Vulnerability
(Timeline to be
decided at
IPCC-61)

Synthesis Report (by late 2029, after completion of the Working Group contributions)

elected new Chair and Bureau (July 2023) on products and workplan for the seventh cycle (January 2024)

2023 — 2024

2027 — TBC

2028

2029

AR6 Chapters

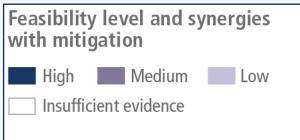
- Chapter 1: Introduction and framing
- Chapter 2: Emissions trends and drivers
- Chapter 3: Long-term mitigation goals and pathways
- Chapter 4: Mitigation pathways compatible with long-term goals
- Chapter 5: Demand, services and social aspects of mitigation
- Chapter 6: Energy systems
- Chapter 7: Agriculture, Forestry, and Other Land Uses (AFOLU)
- Chapter 8: Urban systems and other settlements
- Chapter 9: Buildings

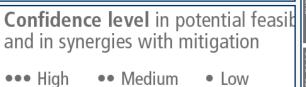
- Chapter 10: Transport
- Chapter 11: Industry
- Chapter 12: Cross sectoral perspectives
- Chapter 13: National and sub-national policies and institutions
- Chapter 14: International cooperation
- Chapter 15: Investment and finance
- Chapter 16: Innovation, technology development and technology transfer
- Chapter 17: Accelerating the transition in the context of sustainable development

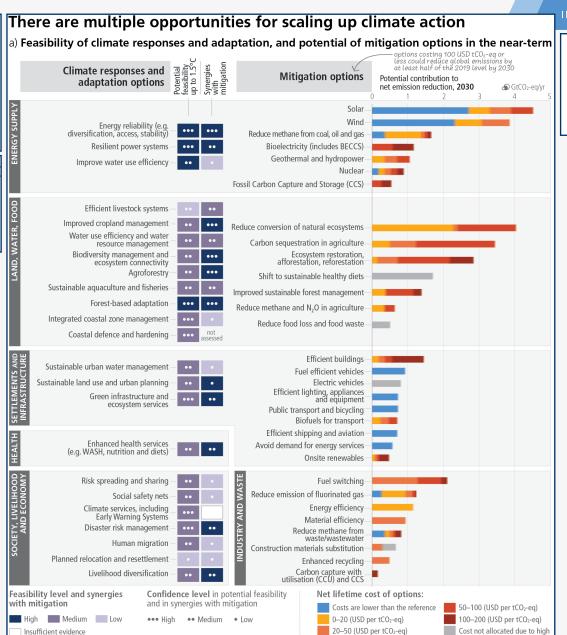


INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

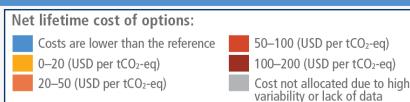


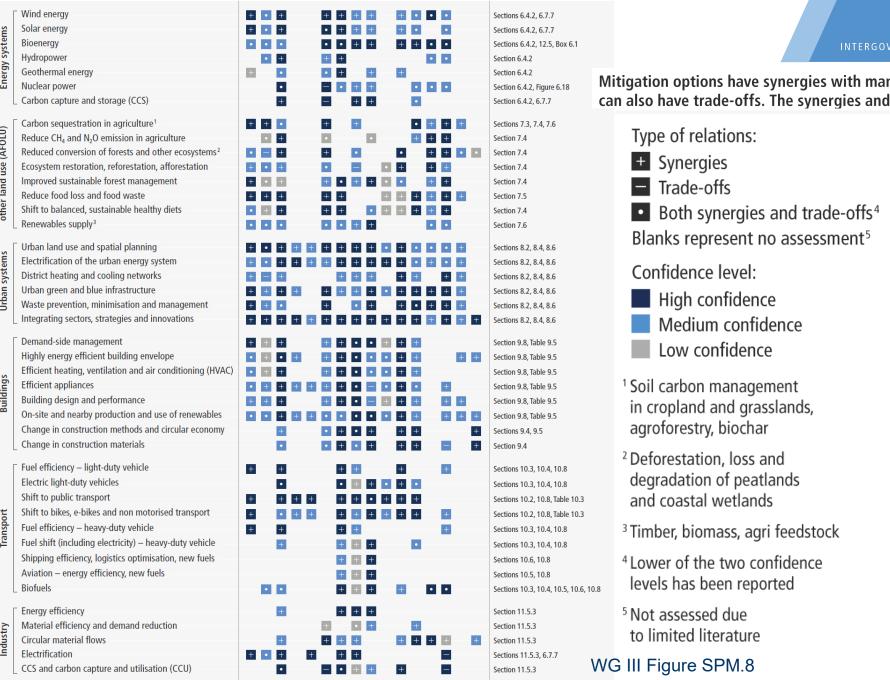






variability or lack of data





Chapter source

Relation with Sustainable Development Goals

Sectoral and system mitigation options

SEVENTH ASSESSMENT CYCLE

INTERGOVERNMENTAL PANEL ON Climate change



Mitigation options have synergies with many Sustainable Development Goals, but some options can also have trade-offs. The synergies and trade-offs vary dependent on context and scale.



- "Policies and laws addressing mitigation have consistently expanded since AR5." {SYR SPM A.4}
- "Several mitigation options, notably solar energy, wind energy, electrification of urban systems, urban green infrastructure, energy efficiency, demand-side management, improved forest and crop/grassland management, and reduced food waste and loss, are technically viable, are becoming increasingly cost effective and are generally supported by the public." {SYR SPM A.4.2}



- "Global GHG emissions in 2030 implied by nationally determined contributions (NDCs) announced by October 2021 make it likely that warming will exceed 1.5°C during the 21st century and make it harder to limit warming below 2°C. There are gaps between projected emissions from implemented policies and those from NDCs and finance flows fall short of the levels needed to meet climate goals across all sectors and regions." {SYR SPM A.4}
- "Continued greenhouse gas emissions will lead to increasing global warming, with the best estimate of reaching 1.5°C in the near term in considered scenarios and modelled pathways." {SYR SPM B.1}



- Limiting human-caused global warming requires net zero CO2 emissions.
 Cumulative carbon emissions until the time of reaching net zero CO2 emissions and the level of greenhouse gas emission reductions this decade largely determine whether warming can be limited to 1.5°C or 2°C (high confidence).
- Projected CO2 emissions from existing fossil fuel infrastructure without additional abatement would exceed the remaining carbon budget for 1.5°C (50%) (high confidence). {2.3, 3.1, 3.3, Table 3.1} {SYR SPM B.5}



All global modelled pathways that limit warming to 1.5°C (>50%) with no or limited overshoot, and those that limit warming to 2°C (>67%), involve rapid and deep and, in most cases, immediate greenhouse gas emissions reductions in all sectors this decade. Global net zero CO2 emissions are reached for these pathway categories, in the early 2050s and around the early 2070s, respectively. (high confidence) {3.3, 3.4, 4.1, 4.5, Table 3.1} (Figure SPM.5, Box SPM.1) {SYR SPM B.6}

Vision from WGIII

- More cross Working Group integration, including integration with the Task Force on National Greenhouse Gas Inventories
- More integration within WGIII
- Increased inclusivity

THANK YOU

FOR YOUR ATTENTION



STAY IN TOUCH



ipcc.ch





ipcc-sec@wmo.int ipcc-media@wmo.int

STAY CONNECTED















