

BRIEFING ON IPCC WGIII REPORT

8 APRIL 2022 | 14:00-15:30 CEST International Environment House & Online

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BRIEFING ON IPCC WGIII REPORT

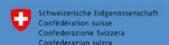
Sixth Assessment Report

Climate Change 2022: Mitigation of Climate Change



8 APRIL 2022 | 14:00-15:30 CEST International Environment House & Online





SPEAKERS



Sebastian KÖNIG

IPCC Focal Point, Switzerland



Jim SKEA

IPCC Working Group III Co-Chair





Diana URGE-VORSTATZ

IPCC Working Group III Vice-Chair





Ligia NORONHA

UN Assistant Secretary-General, Head of UNEP, New York Office





Maria MENDILUCE

Chief Executive Officer, We Mean Business





Lindsey FIELDER COOK

Representative for Climate Change, Quaker United Nations Office





Dina IONESCO

Manager at United Nations Climate Secretariat (UNFCCC) | Moderator



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INTERGOVERNMENTAL PANEL ON Climate change

Climate Change 2022

Mitigation of Climate Change



Working Group III contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change

WGIII





BRIEFING ON IPCC WGIII REPORT

MODERATOR





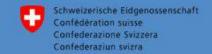
Dina IONESCO

Manager at United Nations Climate Secretariat (UNFCCC)

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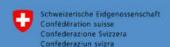
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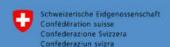
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OPENING REMARKS



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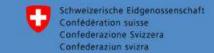


Sebastian KÖNIG

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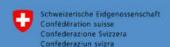
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IPCC WORKING GROUP CO-CHAIR BRIEFING



Jim SKEA



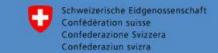


Diana URGE-VORSTATZ

IPCC Working Group III Vice-Chair

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Report by numbers



278 Authors



65 Countries



41 % Developing countries 59 % Developed countries



354 Contributing authors



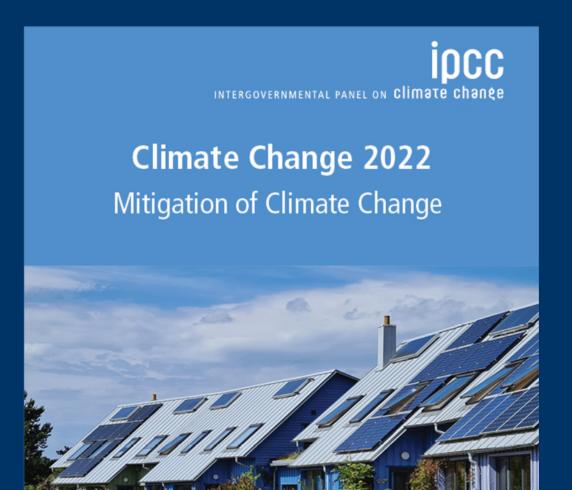
29 % Women / 71 % Men



More than 18,000 scientific papers



59,212 Review comments



2010-2019: Average annual greenhouse gas emissions at highest levels in human history



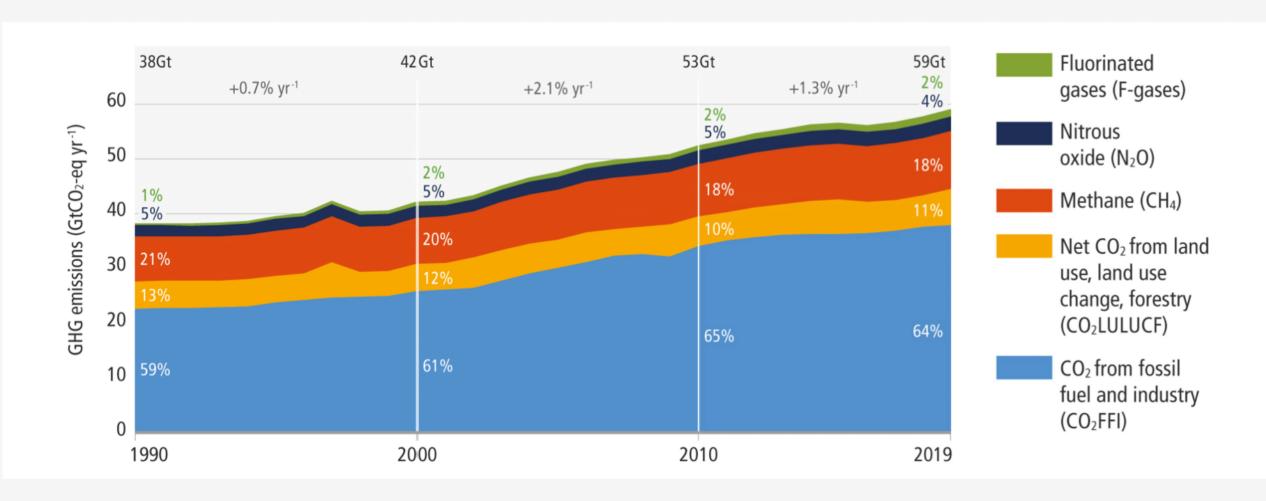
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We are not on track to limit warming to 1.5 °C.









Unless there are immediate and deep emissions reductions across all sectors, 1.5°C is beyond reach.



Increased evidence of climate action

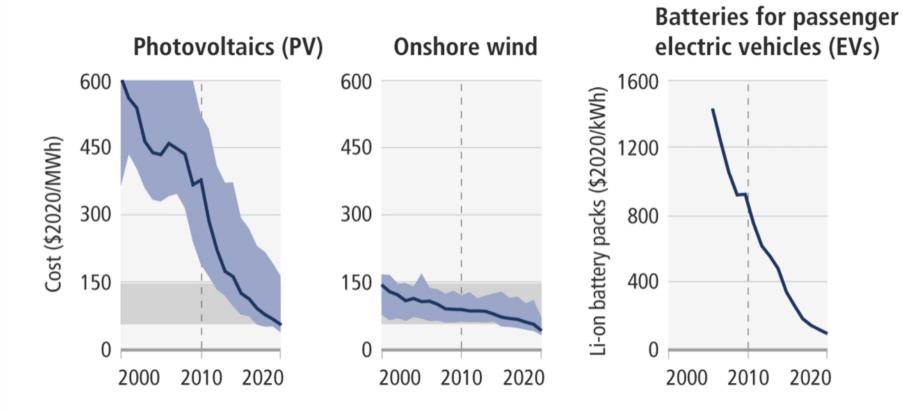


Some countries have achieved a **steady** decrease in emissions consistent with limiting warming to **2°C**.



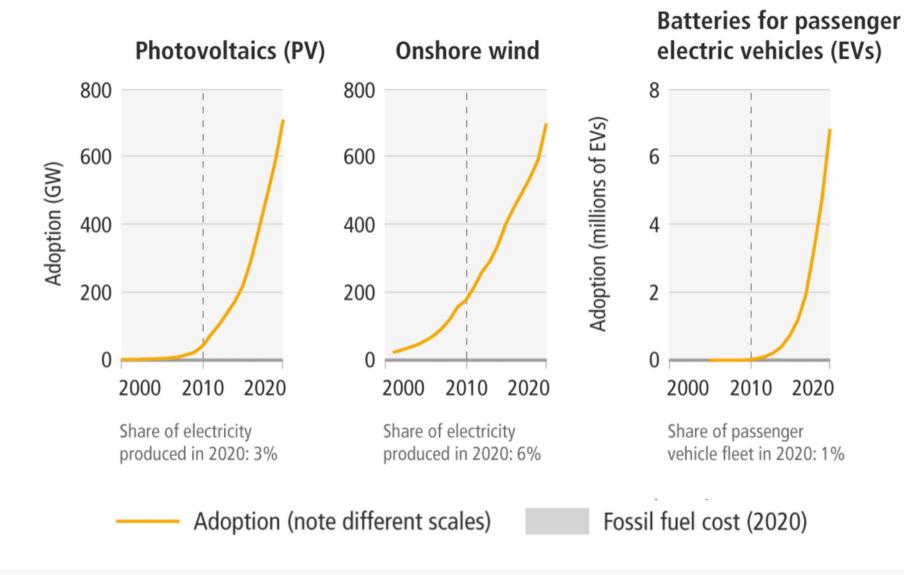
Zero emissions targets have been adopted by at least 826 cities and 103 regions





In some cases, costs for renewables have fallen below those of fossil fuels.



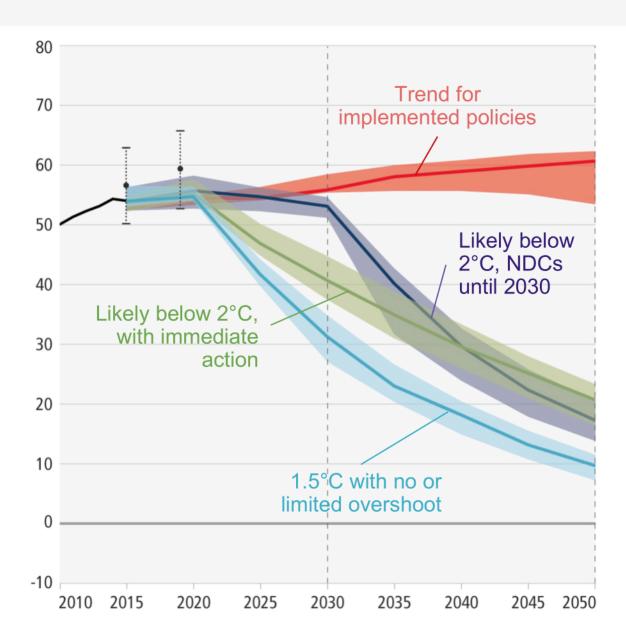


Electricity
systems in
some countries
and regions are
already
predominantly
powered by
renewables.

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Limiting warming to 1.5 °C

- Global GHG emissions peak before 2025, reduced by 43% by 2030.
- Methane reduced by 34% by 2030

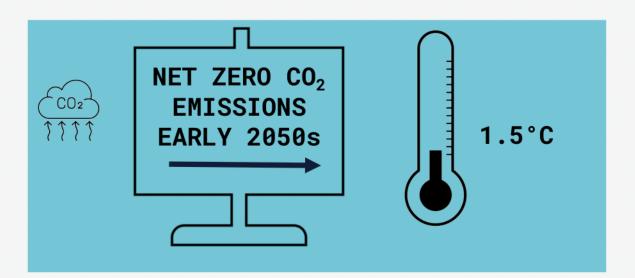
Limiting warming to around 2°C

 Global GHG emissions peak before 2025, reduced by 27% by 2030.

(based on IPCC-assessed scenarios)



The temperature will stabilise when we reach net zero carbon dioxide emissions





(based on IPCC-assessed scenarios)



There are options available **now** in every sector that can at least **halve** emissions by 2030

Demand and services



Energy











Land use

Industry

Urban

Buildings

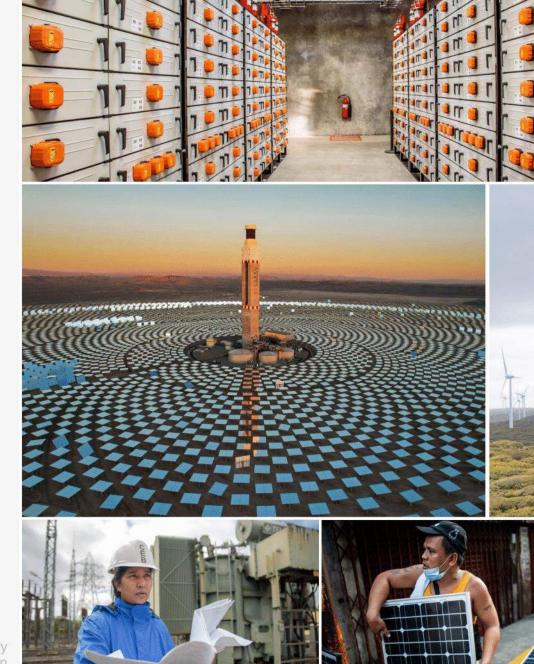
Transport

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Energy

- major transitions are required to limit global warming
- reduction in fossil fuel use and use of carbon capture and storage
- low- or **no-carbon** energy systems
- widespread electrification and improved energy efficiency
- alternative fuels: e.g. hydrogen and sustainable biofuels









- potential to bring down global emissions by 40-70% by 2050
- walking and cycling, electrified transport, reducing air travel, and adapting houses make large contributions
- lifestyle changes require systemic changes across all of society
- some people require additional housing, energy and resources for human wellbeing





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Transport

- reducing demand and low-carbon technologies are key to reducing emissions
- electric vehicles: greatest potential
- battery technology: advances could assist electric rail, trucks
- aviation and shipping: alternative fuels (low-emission hydrogen and biofuels) needed
- Overall, substantial potential but depends on decarbonising the power sector.







- better urban planning, as well as:
- sustainable production and consumption of goods and services,
- electrification (low-emission energy),
- enhancing carbon uptake and storage
 (e.g. green spaces, ponds, trees)

There are options for existing, rapidly growing and new cities.









- buildings: possible to reach net zero emissions in 2050
- action in this decade is critical to fully capture this potential
- involves retrofitting existing buildings and effective mitigation techniques in new buildings
- requires ambitious policy packages
- zero energy and zero-carbon buildings exist in new builds and retrofits











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Industry

- using materials more efficiently, reusing, recycling, minimising waste; currently under-used in policies and practice
- basic materials: low- to zero-greenhouse gas production processes at pilot to nearcommercial stage
- achieving net zero is challenging











[Ahsanization/Unsplash, IMF Focus | Industry and Manufacturing CC BY-NC-ND 2.0, Rwanda Green Fund CC BY-ND 2.0, ILO/M. Fossat CC BY-NC-ND 2.0, Stephen Cornwell Pxhere.com]



Carbon Dioxide Removal

- required to counterbalance hard-to-eliminate emissions
- through biological methods: reforestation, and soil carbon sequestration
- new technologies require more research, up-front investment, and proof of concept at larger scales
- essential to achieve net zero
- agreed methods for measuring, reporting and verification required

[Forest Service Northern Region CC BY 2.0, Fiston Wasanga/CIFOR CC BY-NC-ND 2.0, Climeworks]











- can provide large-scale emissions reductions and remove and store CO₂ at scale
- protecting and restoring natural ecosystems to remove carbon: forests, peatlands, coastal wetlands, savannas and grasslands
- competing demands have to be carefully managed
- cannot compensate for delayed emission reductions in other sectors







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Closing investment gaps

- financial flows: 3-6x lower than levels needed by 2030 to limit warming to below 1.5°C or 2°C
- there is sufficient global capital and liquidity to close investment gaps
- challenge of closing gaps is widest for developing countries







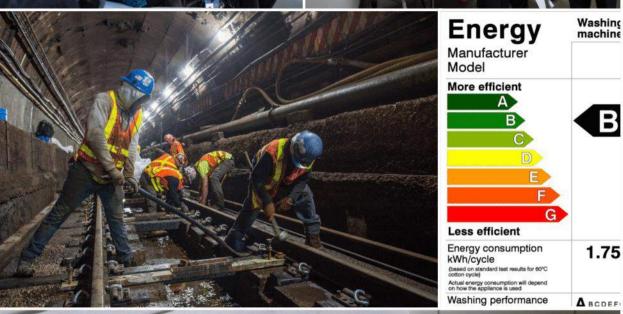
Policies, regulatory and economic instruments

- regulatory and economic instruments have already proven effective in reducing emissions
- policy packages and economy-wide packages are able to achieve systemic change
- ambitious and effective mitigation requires coordination across government and society

[World Bank/Simone D. McCourtie, Dominic Chavez CC BY-NC-ND 2.0, Trent Reeves/MTA Construction & Development CC BY 2.0, IMF Photo/Tamara Merino CC BY-NC-ND 2.0, Olga Delawrence/Unsplash.]











Technology and Innovation

- investment and policies push forward low emissions technological innovation
- effective decision making requires assessing potential benefits, barriers and risks
- some options are technically viable, rapidly becoming cost-effective, and have relatively high public support. Other options face barriers

Adoption of low-emission technologies is slower in most developing countries, particularly the least developed ones.





















Accelerated climate action is critical to sustainable development



SUSTAINABLE GALS





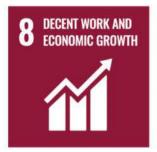


































Mitigation options in urban areas

| | Relation with Sustainable Development Goals | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 |
| Urban land use and spatial planning | + | ٠ | + | + | + | + | + | + | + | ٠ | + | ٠ | ٠ | ٠ | + | |
| Electrification of the urban energy system | + | • | + | + | + | + | + | + | + | + | + | ٠ | + | ٠ | + | |
| District heating and cooling networks | + | _ | + | | | | + | + | + | | + | + | | + | + | |
| Urban green and blue infrastructure | + | + | + | + | | + | + | + | + | ٠ | + | + | + | + | + | |
| Waste prevention, minimization and management | + | + | ٠ | | | + | | ٠ | + | | + | ٠ | + | + | + | |
| Integrating sectors, strategies and innovations | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |



Mitigation options in agriculture and forestry

| | Relation with Sustainable Development Goals | | | | | | | | | | | | | | | |
|---|---|---|----------------|---|---|---|---|---|---|----------------|----------------|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 |
| Carbon sequestration in agriculture ¹ | + | + | • | | | + | | + | | | | ٠ | + | + | + | |
| Reduce CH ₄ and N ₂ O emission in agriculture | | | + | | | | | | | | | + | + | + | | |
| Reduced conversion of forests and other ecosystems ² | ٠ | - | + | | | + | | ٠ | | | ٠ | | + | + | ٠ | |
| Ecosystem restoration, reforestation, afforestation | + | • | + | | | ٠ | | _ | | | + | | + | + | | |
| Improved sustainable forest management | + | | \blacksquare | | | + | ٠ | + | + | | • | | + | + | | |
| Reduce food loss and food waste | + | + | + | | | + | + | | | \blacksquare | | + | + | + | + | |
| Shift to balanced, sustainable healthy diets | • | + | + | | | + | + | | • | \pm | \blacksquare | + | + | + | | |
| Renewables supply ³ | ٠ | ٠ | ٠ | | | ٠ | ٠ | + | + | | | | ٠ | ٠ | | |

WORKING GROUP III - MITIGATION OF CLIMATE CHANGE

The evidence is clear:
The time for action is now



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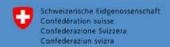
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EMISSIONS GAP REPORT AND THE IPCC CLIMATE CHANGE REPORT: CONVERGING MESSAGES





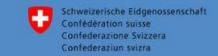
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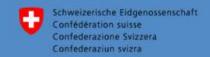
The Heat Is On A world of climate promises not yet delivered **Emissions Gap** UNEP DTU Report 2021

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EMISSIONS GAP REPORT 2021

The Emissions Gap Report is an annual series that provides an overview of the difference between where greenhouse emissions are predicted to be in 2030 and where they should be to avert the worst impacts of climate change.





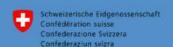
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BUSINESS ACCELERATING CLIMATE ACTION





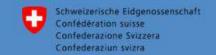
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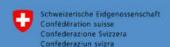
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CIVIL SOCIETY ENGAGEMENT - AN IPCC OBSERVER PERSPECTIVE ON THE WGII REPORT



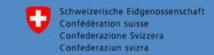


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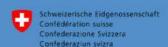
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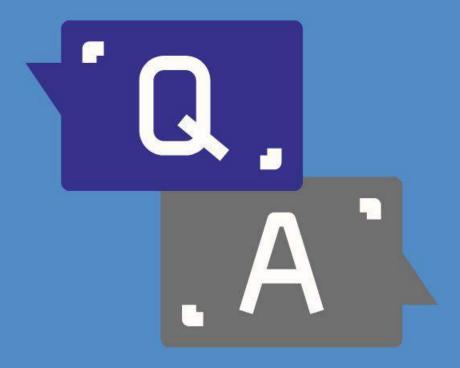


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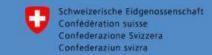




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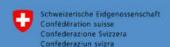
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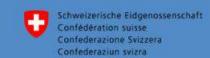


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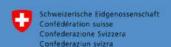
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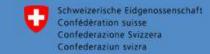
BRIEFING ON IPCC WGIII REPORT

THANK YOU FOR JOINING!

Summary, recording and further resources will be available at









WHAT'S NEXT?



