

Where are we now?

Since pre-industrial times, human activities have caused approximately 1°C of global warming.

- Already seeing consequences for people, nature and livelihoods
- At current rate, would reach 1.5°C between 2030 and 2052
- Past emissions alone do not commit the world to 1.5°C

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Impacts of global warming 1.5°C (At 1.5°C compared to 2°C)



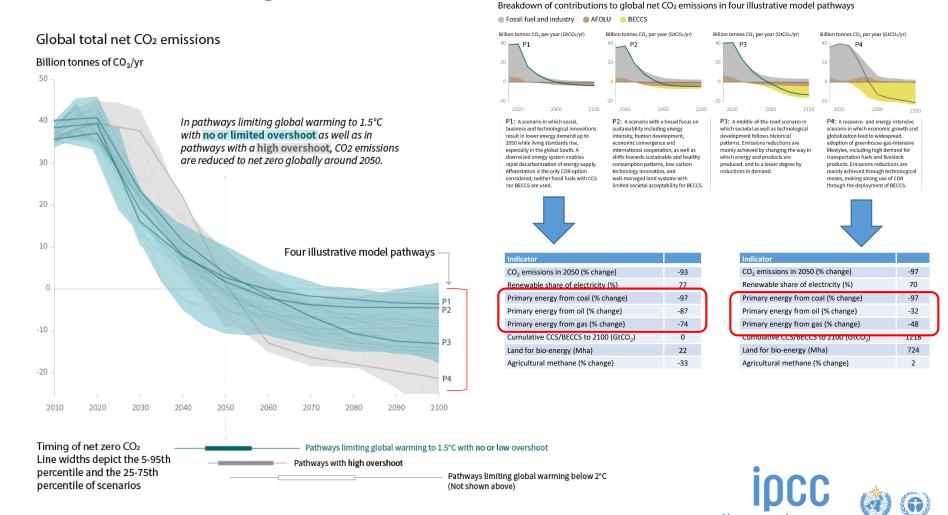
Tropical Southeast Asia: projected to experience the largest impacts on economic growth

Less extreme weather where people live, including extreme heat and rainfall

- By 2100, global mean sea level rise will be around 10 cm lower but may continue to rise for centuries
- <u>10 million fewer people exposed</u> to risk of rising seas
- Lower impact on biodiversity and species
- Smaller reductions in yields of maize, rice, wheat
- Global population exposed to increased <u>water</u> <u>shortages is up to 50% less</u>
- Lower risk to fisheries and the livelihoods that depend on them
- Up to several hundred million fewer people exposed to climate-related risk and susceptible to poverty by 2050



SPM3a Global emissions pathway characteristics



INTERGOVERNMENTAL PANEL ON CLIMATE CHANE

WMO



Greenhouse gas emissions pathways

- Global carbon emissions peak before 2030 in all pathways compatible with 1.5°C warming
- Emissions of carbon dioxide fall by 45% by 2030, reaching net zero around 2050, with <u>deep cuts in</u> <u>methane and other emissions</u>
- Ethical and fair transitions
- Limiting global warming to 1.5°C is not impossible, but **political and societal will** to accelerate transitions is key
- Limiting warming to 1.5°C would require changes on an unprecedented scale
 - → Deep emissions cuts in all sectors
 - → A range of technologies
 - Behavioural changes
 - Increased investment in low carbon options



Neil Emmerson / Aurora Photos

SPM4 | Indicative linkages between mitigation and sustainable development using SDGs

Length shows strength of connection

