

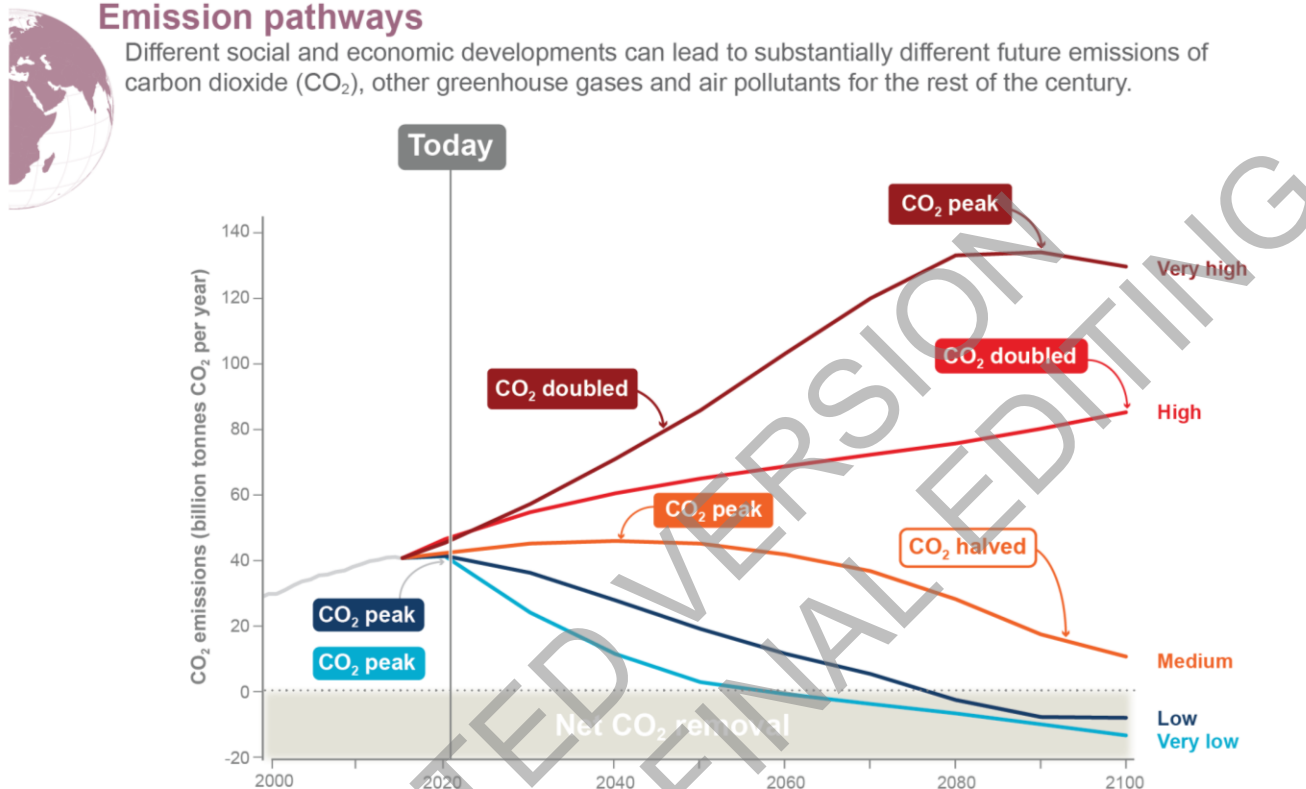
1 a)

Climate futures

The climate change that people will experience this century and beyond depends on our **greenhouse gases emissions**, how much **global warming this will cause** and the **response of the climate system** to this warming.

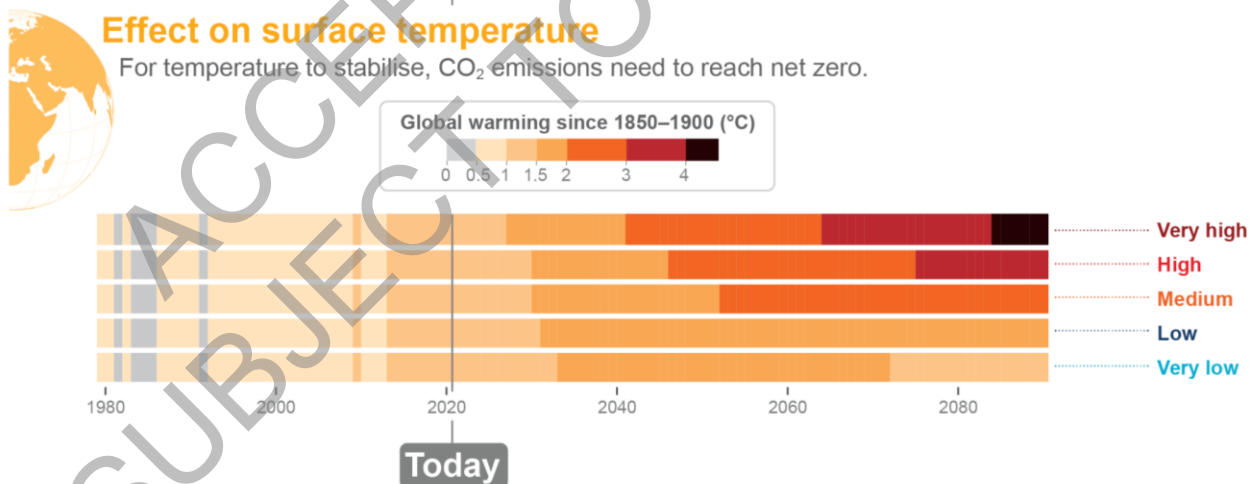
Emission pathways

Different social and economic developments can lead to substantially different future emissions of carbon dioxide (CO₂), other greenhouse gases and air pollutants for the rest of the century.



Effect on surface temperature

For temperature to stabilise, CO₂ emissions need to reach net zero.



Short-term effect: Natural variability

Over short timescales (typically a decade), natural variability can temporarily dampen or accentuate global warming trends resulting from emissions.

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