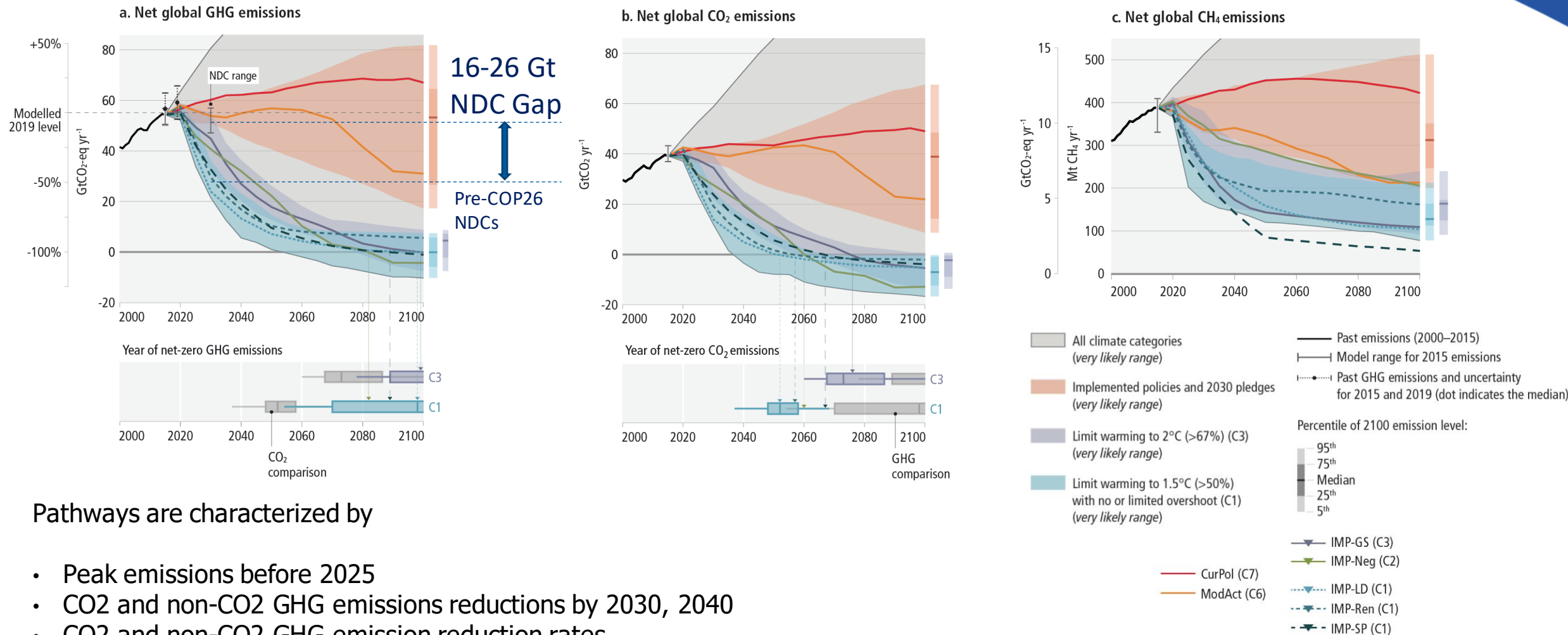


# Paris-relevant emissions pathways

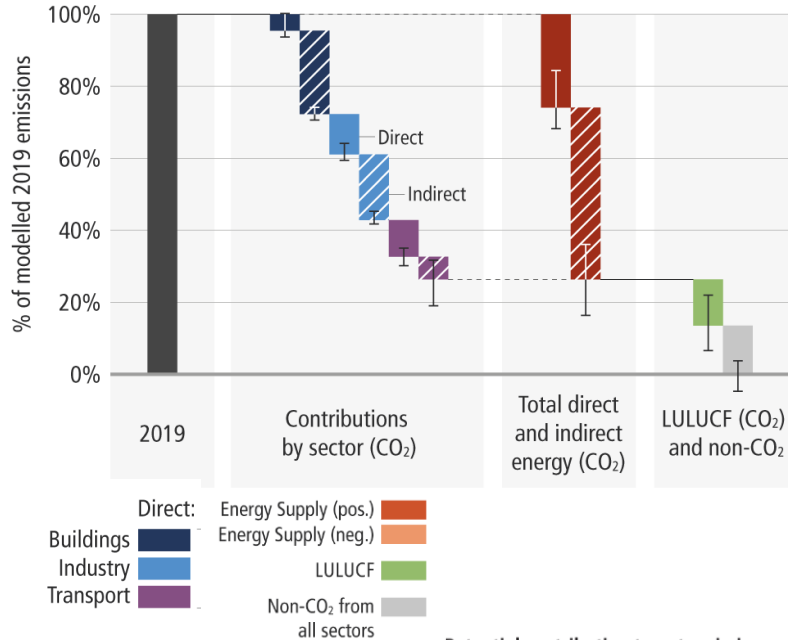


Pathways are characterized by

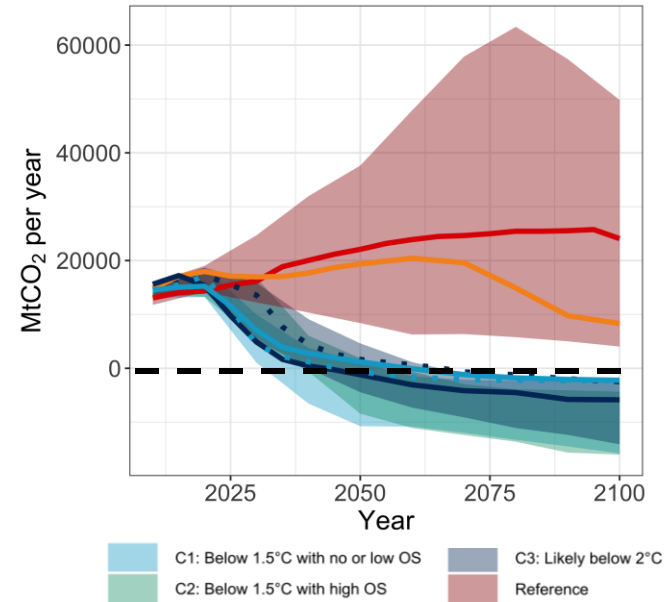
- Peak emissions before 2025
- CO<sub>2</sub> and non-CO<sub>2</sub> GHG emissions reductions by 2030, 2040
- CO<sub>2</sub> and non-CO<sub>2</sub> GHG emission reduction rates
- Year of CO<sub>2</sub> and non-CO<sub>2</sub> net zero emissions

# System transformation towards net-zero

f. Contributions to reaching net zero GHG emissions (for all scenarios reaching net-zero GHGs)



Energy Supply CO<sub>2</sub> Emissions

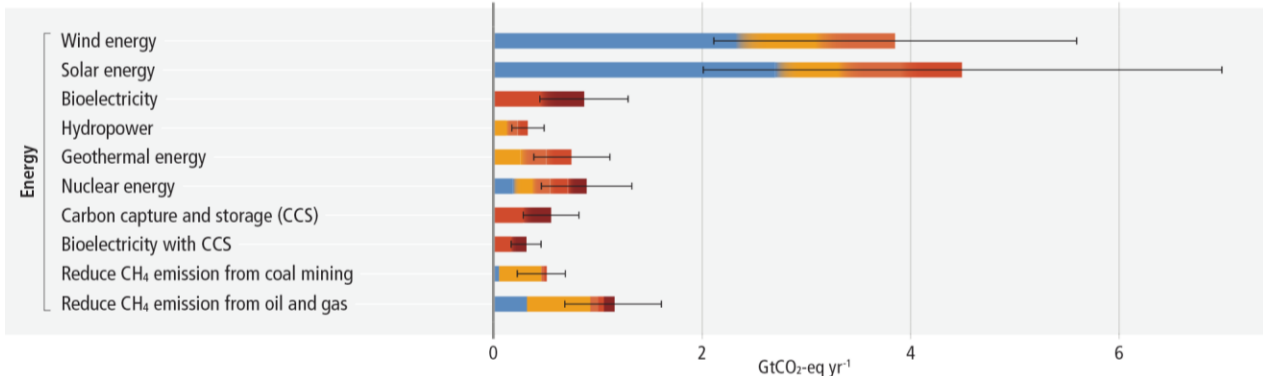


Pathways provide estimates of energy system transformation, including:

- Carbon intensity of electricity supply
- Year of net-zero electricity
- Reduction in unabated fossil fuels separated by fuel type
- Uptake rate of novel fuel types, such as hydrogen
- Carbon free share of total primary energy generation

Mitigation options

Potential contribution to net emission reduction, 2030 (GtCO<sub>2</sub>-eq yr<sup>-1</sup>)



# Net-Zero and Carbon Dioxide Removal

e. Sectoral GHG emissions at the time of net-zero CO<sub>2</sub> emissions (compared to modelled 2019 emissions)

