

The road to achieving NET-ZERO in Asia and the Pacific region



Asia-Pacific member States with NDC submissions

49

Member States with more than Two NDC updates

12

Member States with carbon-neutrality pledges

39

Total GHG emissions in 2019

29.6 GtCO₂e

Emissions under NDC commitments by 2030

26.7 GtCO₂e

Desired emissions by 2030

16.87 GtCO₂e

Recommended reduction for 1.5 degree pathway by 2030

43% by 2030, relative to 2019

Estimated reductions under current NDCs

≈ 10% relative to 2019

Asia-Pacific emission reduction gap with 1.5 degree pathway

≈ 33%

Estimated warming pathway under current NDCs

≈ 2.8°C

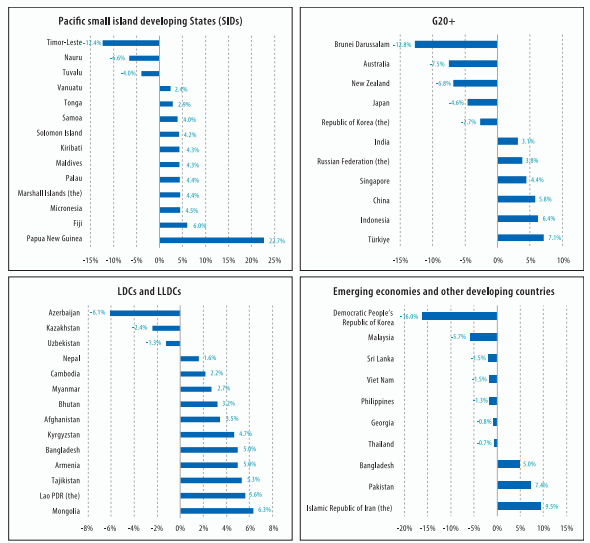
Fossil fuel emissions, particularly from COAL, are on the rise

- Coal, gas and oil are still substantial sources of emissions in the region.
- Coal is a leading emitter, accounting for over half of emissions from these fossil fuels.
- Greening the region requires substantial reduction in reliance on fossil fuels.

GHG emissions are on the RISE in Asia and the Pacific region (2019-2021)

- GHG emissions continue to rise despite a temporary reduction due to Covid-19.
- Emissions increased in 31 (63%) out of 49 member states, with variations across country categories.
- An increase happened in 11 out of 14 Least Developed Countries (LDCs) and Landlocked Least Developed Countries (LLDCs); 11 out of 14 Pacific Small Island Developing States (SIDs); 6 out of 11 G20+ countries; and 3 out of 10 emerging and other developing states.

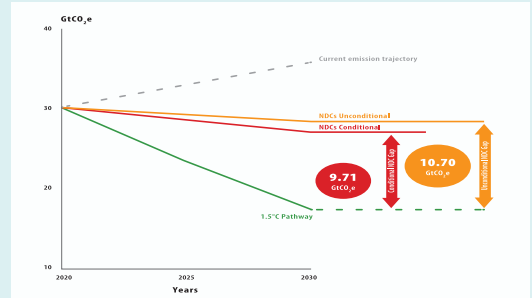
Percentage change in emissions by country groups (2019-2021)



NDC commitments are INSUFFICIENT to deliver on the 1.5°C goal

- Current NDC commitments are inadequate to keep temperature increase within the 1.5°C pathway by 2030.
- The gap between current NDC commitments and the required reductions for a 1.5°C pathway is widening, necessitating more ambitious targets.
- The IPCC recommends a 43% reduction in GHG emissions by 2030 relative to 2019 levels.
- With current NDC commitments, emissions would only reduce by approximately 10% by 2030 relative to 2019 levels, leaving a 33% gap to align with a 1.5°C pathway.
- In the next round of NDCs (2024-2025), more ambitious targets are needed to align with 1.5°C pathway.

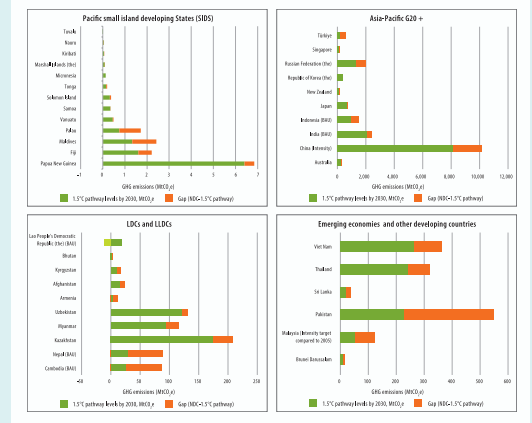
NDC commitments gaps with 1.5°C pathway



Net-zero is NOT within reach in Asia and the Pacific region

- Of the 49 member states, 12 "pace-setters" have submitted more than two NDC updates.
- For most countries, emissions under current NDCs will be higher than recommended levels for a 1.5°C pathway.
- Critical reviews of business-as-usual scenarios and alignment with long-term low-emissions development strategies are recommended.

The gap between emission reduction under NDCs & 1.5 pathway



Net-zero pathways REQUIRE prioritizing major emitting SECTORS

- Regional emissions majorly come from the power industry, industrial processes, and fuel.
- Tackling emissions from these sectors is key to reducing overall emissions and achieving net-zero.

Sectoral shares of GHG emissions, 2019 and 2021

