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From ambition to action: regional challenges to climate neutrality in CASE countries

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To be compatible with the Paris 1.5°C target, global GHG emissions have to reach net-zero by 2050-2070

 \rightarrow A 1.5°C-consistent pathway means reaching net-zero CO₂ emissions by 2050, and net-zero GHG emissions by 2070.

- \rightarrow If sectors with promising solutions (power supply) can reach zero before 2050, other hard-to-abate sectors could reach it later.
- → The global emission budget requires all countries to adopt a course towards netzero, and move towards a trajectory that represents their highest possible ambition.
- 'Catch-up' or continued development of fossil fuel infrastructure gambles with planetary boundaries, and risks technological and infrastructure lock-in that could make Paris targets unattainable.

Huppmann et al. (2018) and UK CCC (2019)

0

-10

-20

1990

2000

2010



2030

2020

>50% 1.5°C - Range

>66% 2°C - Range

2040

2050

>50% 1.5°C - Median

—>66% 2°C - Median

207

Historical





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Recent net-zero emissions pledges put Paris targets within striking distance

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Adapted from Climate Action Tracker (2020)

Climate Action Tracker (2020)

What do climate neutral pledges mean for emerging economies? How can we increase ambitions to reaching 1.5°C target?



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- → 2050 climate net-zero pledges by industrial countries are only consistent with 1.5°C pathways if these balanced by massive finance and technology transfers to emerging economies.
- → At the same time, emerging economies will need to identify their current realistic ambitions in order to define the nature of the support needed to lift amibitions to the maximum technical possibility.
- → The \$100 billion per year in climate finance towards emerging economies, committed to in Cancun in 2010 and reaffirmed in Paris, will continue to 2025, when it will become the floor for a new collective quantified goal.
- → How can best direct the necessary financial and technology transfers to drive higher ambitions and achieve climate targets?

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Research and assessment framework assessed key challenges facing the energy transition in CASE countries



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Key regional challenges and discussion points for CASE



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Policy Planning and Alignment



- Absence of a long-term policy vision and
- government ownership
- Limited interaction and collaboration

Investment Challenges

- High cost of capital for renewable energy
- Weak technical understanding of renewable energy projectbased finance



Grid and market integration challenges

- The benefits of a regional grid are not yet well understood
- Lack of common vision across countries
- VRE integration challenge

Fossil lock-in & energy security perception

- Fossil-fuel dominated oligarchies and huge pipeline
- Renewable energy perceived as unreliable and costly

Capacity building & knowledge sharing

- No clear regional 'knowledge holder'
 - Absence of reliable and upto-date data and platforms



Actors & Institutions

- Lack of strong regionallyfocused institution
- Weak policy coordination
- Missing transparency and lack of trust

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Thank you!

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