

Concept Note:

Priorities for Decarbonization in Industrialized and Emerging Economies

Presentation in the SDG Pavilion (Event: E10, Blue Zone)

11 November 2025, 14:00 to 15:00 hours

There is an unprecedented level of awareness of climate change and the role of decarbonization in enabling environmental sustainability moving forward.

In particular, there has been a major focus placed on the carbon produced through electricity generation, as it is responsible for roughly 30% of emissions globally. When focusing on the energy sector alone, it is apparent that **nation states are coalescing into two groups** when targeting carbon reductions: No. 1. Industrialized nation states, which have been responsible for the vast majority of the total carbon generation thus far. No. 2. Emerging economies, which are less responsible for past carbon emissions.

As the former pushes the latter, which are heavily reliant on fossil fuels to transition towards renewable energy solutions, there is a tension that needs to be navigated if we are to meet carbon reduction targets – and they are, to be clear, shared targets.

A nuanced approach to navigating this tension will see industrialized nation states collaborating with emerging economies to deploy a portfolio of solutions which are acceptable, affordable and scalable on a global scale.

To more efficiently facilitate the global shift towards decarbonization for a sustainable climate, the following areas should be addressed by policy makers. We will include how digital technologies can facilitate deployments in these areas.

Energy Efficiency Applications, Electrification, Carbon Capture Systems, Renewable Energy Integration, Hydrogen and Storage Solutions, Cross-Border Energy Transfer, and Advanced Nuclear Technologies.

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