

SUSTAINABLE & RESILIENT COMMUNITIES

Climate, Environment & Net Zero Targets



C20 Dialogues by CSOs of G20 member countries on **Net Zero Targets**

Workshop Theme
**Technology Integration,
Finance and Adoption
Strategies for Addressing
Net Zero Emissions
Management**

February 8, 2023

Time : 1000 hrs to 1730 hrs IST (Hybrid Event) | **Venue:** The Theatre, India Habitat Centre, New Delhi

Background Note

India assumed the Presidency of the G20 on the 1st December, 2022, a watershed moment for the country as it seeks to play an important role in finding solutions to address key issues impacting mother earth in the spirit of "Vasudhaiva Kutumbalam" or the "World is One Family" with "One Earth, One Family, One Future" as the Vision for G20 2023.

As part of its agenda as the G20 President, India has identified a number of sectors/issues that it would like the G20 grouping to address and arrive at robust solutions. The sectors and issues range from scaling up renewable energy to ensuring the implementation of Sustainable Development Goals and addressing climate change; from trade and investment to multilateral reforms; from agriculture to financial inclusion and women led development and many more, with the concept of Lifestyle for Environment, which India's Hon'ble Prime Minister introduced as the biding fabric.

India has taken a leadership on climate change, with a very ambitious "Nationally Determined Contribution", which was announced by the Prime Minister at the Glasgow Climate Summit, which was aptly coined as the "Panchamrit" or "Five Nectars" and putting India for the first time on the road to being Net Zero by 2070.

In its G20 Presidency, India has expressed the hope that actions on addressing Climate Change and importantly imbibing the principles of Lifestyle for Environment is embraced and scaled up by all.

In the backdrop of the above, Vasudha Foundation, in collaboration with Amrita Vishwa Vidyapeetham and Climate Action Network South Asia (CANSA), and with the blessings and guidance of Sri Mata Amritanandmayi Devi, Chair of C20 is organizing a convening of various groupings of the G20 with participation of groups across the various G20 countries and has invited guest countries to deliberate and discuss on "Technology Integration, Finance and Adoption Strategies for Addressing Net Zero Emissions Management".

Specifically, the convening will bring together representatives of Civil 20, Foundations 20, Business 20, Urban 20, Think Tank 20 and Youth 20 for a daylong event, the outcome of which will be a White Paper highlighting the various recommendations of the consultative joint group to be submitted to the G20 member countries for their consideration.

Thematic Group I

Technology : Coordinators - Vasudha Foundation, Amrita Vishwa Vidyapeetham, Indian Wind Turbine Manufacturers Association and Other RE Groups

Session Title: Keeping pace with the Advancing Technology and associated ecosystem to boost RE uptake

Session Description :

As part of its agenda as the G20 President, India has identified a number of facets to be examined. Advancements in technology are one of the key facets which is critical for scaling up renewable energy to ensure the implementation of Sustainable Development Goals and addressing climate change.

A reliable, economically competitive, and environmentally sustainable electricity system is the cornerstone of modern society. The electricity system is in the midst of a transformation because of the incorporation of an increased mix of renewable energy. Going forward, the advancement of technologies is necessary to increase the reliability and quality of power. In this session, the panelists will present their views on multiple technologies and key policy levers to commercialize these technologies at a large scale. In addition, the session will look into prospects of increasing north-north and south-south collaboration in the field of R&D, IPRs, and more.

Session Questions :

1. Can you please elaborate on the key technology that you represent?
2. How can we mainstream the usage of recyclable materials for manufacturing new-age batteries in India?
3. Can you delve deep into the measures to reduce the cost of offshore wind in India?
4. What are the technological interventions which can make solar a more reliable source of energy? How these interventions will change the economics of the sector? (Forecasting, Storage, and more)
5. What kind of support do you need to mainstream peer-to-peer technology in power sector?
6. What is your perspective on the state of the supply chain of the wind/solar power sector in India? Where can we improve?
7. What is the way forward/key policy levers to commercialize these new technologies to scale?
8. How IPR impacts renewable energy adoption? Whether introducing safeguards an effective approach to promote the development of the sector?
9. How to further enhance south-south and north-south cooperation?
10. What are the key measures to boost joint R&D projects?

Thematic Group II

Finance : Coordinators - Climate Action Network, South Asia and Amrita Vishwa Vidyapeetham

Session Title : Finance for Building Climate Resilience and ensuring Social Justice

Session Description:

While G20 main objective is to drive global cooperation and dialogue to ensure strengthening of global architecture and governance on all major international economic issues. It also aims to aid and push progress on some of the most vital topics that are selected in a troika arrangement through yearlong discussion and consultations with a set of well-known experts. Climate Change and associated challenges such as finance and technology transfer have been on G20's radar as priority issues since Hamburg summit in 2017.

Climate finance and its role in ensuring Climate commitments (both qualitatively and quantitatively) are met, is vital for developing countries in the global south. While the lack of progress on underachieving USD 100 Billion/year goal from developed to developing countries by 2020 is one issue. The issue of widening the donor base with emerging economies like China taking more responsibility on climate finance is another hot topic. The lack of trust and dialogue under UNFCCC mechanism has resulted in attaining any meaningful progress on the issue of Climate Finance in the last few Conference of parties (COP's).

Both developed countries (most of G7 and represented as Annex 1) and developing countries (mostly represented as G77 + China) which usually sit in conflicting negotiating blocs under the UNFCCC mechanism are going to engage over the next one year as one bloc under the current G20 presidency lead by India.

Can this not an opportunity where, without impinging on UNFCCC's mandate to discuss, decide the guide the overall direction of Climate finance negotiations the current G20 and the Civil 20 process under India's presidency lend support and raise genuine concerns especially on the issues of global south in a meaningful manner that can ensure serious progress under UNFCCC on the issues of Climate/ Net Zero Financial flows.

Therefore, Vasudha Foundation, The Climate Action Network South Asia in partnership with Amrita University, the C20 India Chair, and German Watch through this discussion aims to find out:

Session Questions:

1. What are the challenges that developing countries especially India is facing in assessing Finance for achieving Net Zero targets?
2. Possible avenues for raising New and additional funding that promote building climate resilient growth and net zero ambitions.
3. India's Stand on Finance for building Climate Resilience and Issues at Large.
4. Loss and Damage Finance Facility, post 2025 New Collective Quantified Goal on Finance (NCQG).
5. Role of Markets for mobilizing finance (Sovereign Bonds; Climate Resilient Bonds) opportunity scale and challenges.
6. National Clean Energy Fund and the role of Carbon markets and enablers to revive project level finance.
7. Need for De- financing Fossil Fuels immediately' Public Financing and Fossil Fuel Subsidies by G20?
8. How Cooperation/support and Capacity for implementation is important?
9. How to further enhance south-south and north-south cooperation?

Adoption Strategies

Plenary Session with Open House Deliberations: *Coordinator* - Amrita Vishwa Vidyapeetham

Session Title: Words into Action: Integrating Technologies and Innovative Financing for Adoption on the Ground

Session Description:

Achieving net zero emissions globally involves solving wide-ranging challenges ranging from technology R & D, scale up/commercialization, building technology adoption infrastructure & achieving economies of scale to awareness generation, capacity building, socially just financing and inclusive & locally relevant adoption of solutions. This has to happen across diverse sectors for diverse technologies. Challenges in technology adoption include capacity building, awareness generation, bringing about behavioural change and coordination in policies. Developed and developing countries often face very different challenges in all the above aspects, and geographies of different countries further add to their vulnerabilities. Achieving a global synergy on the basis of common but differentiated responsibilities and respective capabilities is essential. Adoption of the technologies for net zero must therefore be customized to country-specific problems, with sustainable financing for the technologies themselves, community-led awareness generation, participative adoption and the achievement of climate justice.

Building on the recommendations from the two Thematic Tracks on Technology Cooperation and Finance, this plenary brings together speakers with experience in technology adoption on the ground, and the participants of the workshop to address the above issues. From these discussions, a summary of the recommendations will be presented for the working group Sustainable and Resilient Communities.

Session Questions:

1. Technology-level challenges to overcome for achieving economies of scale to allow accelerated technology adoption?
2. What are the sector-specific challenges and solutions in interfacing technologies so that system-level adoption is feasible?
3. Bottlenecks in establishing associated infrastructure needed for technology adoption and ways to overcome them?
4. Awareness creation among communities about technologies and their adoption in mitigating threats from global warming and emissions?
5. How can one spearhead community-led, participative design (customization), development and adoption of technology solutions to achieve net zero emissions?
6. Strategies needed to recognize and address vulnerabilities of communities and geographies in prioritizing, customizing and financing technology adoption?
7. What are ways to measure the extent of technology adoption, the technology's ability to actually achieve sustainable net-zero-emissions on the ground, and do so in an affordable manner?
8. Best practices in sustainable technology adoption in India, across G20 nations, observer and invitee nations

For further details please feel free to reach out to:

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