

Concept Note

[Technology Information, Forecasting and Assessment Council \(TIFAC\)](#), an autonomous body under the aegis of Department of Science & Technology, has undertaken a project 'Technology Needs Assessment (TNA)' for climate change in various sectors. This project is funded by the Ministry of Environment, Forests & Climate Change (MoEF&CC). The objective of this project is to provide inputs for the fulfilment of India's obligations to UNFCCC; the submission of Biennial Update Report (BUR) II & III and the Third National Communication (NATCOM).

This study primarily aims to identify, select and prioritise mitigation and adaptation technologies in different sectors, which would help India achieve its Nationally Determined Contribution (NDC) targets and goals by 2030.

TIFAC has constituted a National Steering Committee in Renewable Energy (RE) Sector, chaired by Dr. Anshu Bharadwaj, Executive Director, [Center for Study of Science, Technology and Policy \(CSTEP\)](#). The specific sub-themes considered for the RE sector are:

Solar Photovoltaic and CSP	Geothermal
Power grid & electronics	Mini Hydro
Wind	RE sources used for non-electric needs
Biomass	Fuel cells and Storage technologies

The expected deliverables from the TNA study are:

- Identifying technology needs across various RE sectors
- Upcoming and disruptive technologies in the RE sector
- Technology prioritisation in Indian context
- Key recommendations on policy, finance and capacity building needs.

Stakeholders play a crucial role in the Technology Supply Chain of any RE sub-sector. Their views are very critical for identifying, selecting and prioritising technology that is needed for the country. For wider outreach and in order to converge the opinions of concerned stakeholders in the TNA process, TIFAC has organised this Stakeholder Consultation Workshop for the RE sector.

The main objective of this event is to understand the country's technology needs to help achieve the RE targets mentioned in our NDCs.

This Stakeholder Consultation Workshop will facilitate the understanding of:

- Technology availability across various RE sub-sectors
- Deployment readiness of technologies to meet India's RE targets
- Ongoing R&D activities and status in various
- RE technologies and supporting infrastructure
- Potential and emerging technologies in RE sector
- Financial support needed for technology deployment, transfer and implementation of the prioritised technologies
- Capacity building requirements for achieving the stated goals.