



## **Knowledge Webinar Series: Transforming to a net-zero Emissions Energy Scenarios**

**Date and Time: 28 June 2021 || 2:30 PM to 3:45 PM || MS TEAMS platform**

The Industry Charter for Near Zero Emission Ambition by 2050 has emerged as an important step for the Indian industry to voluntarily commit themselves to decarbonisation measures and to work together in key thematic areas that can make a 'zero carbon' future, a reality for India. The Charter represents the intent of signatories to make their companies exemplars of low or zero carbon technology solutions within their sectors, and gradually bring more heavy industry sectors into the fold of the Charter. To support the principles of the Charter, we are delighted to host a series of Knowledge Webinars that will share latest insights with practitioners and leaders of Indian industry.

The Energy and Resources Institute (TERI) in collaboration with Shell has released a scenario sketch of India to transform to a Net Zero Emissions Energy System by outlining transformations, technological options and policy frameworks required to reach net zero emissions in energy system keeping 2050 as a goalpost.

In this study, Net-Zero Emissions scenario (NZE) was developed to examine whether adequate opportunities exist to fully decarbonise the energy sector and highlight the areas where India's energy sector does not have enough choices for full decarbonisation by 2050. Further, energy efficiency, electrification and a switch towards decarbonised fuels constitute the three main pillars of India's decarbonisation strategy, with the need for a transformative move towards renewable electricity, hydrogen and bioenergy as the key fuels that would likely shift the pathway towards a net-zero emissions future. The study indicates that the industrial and heavy freight transport sectors are likely to face limits in achieving full decarbonisation, primarily due to technological constraints which leave residual emissions in the system. This necessitates the need for carbon sequestration options to achieve net-zero emissions, including both technical and nature-based solutions.

This study is the first comprehensive assessment of a net-zero emission strategy for India's energy sector. The findings from this study would encourage further deliberations and deep dive into energy sub-sectors that would benefit policymakers and planners in charting out India's sustainable energy transition. In the webinar TERI will present this study and solicit feedback from industry practitioners.

## Draft Agenda

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| Timings            | Particulars  |
|--------------------|--|
| 2:30 PM to 2:35 PM | <b>Opening Remarks</b> by Mr Arupendra Nath Mulick, Vice-President, TERI Council for Business Sustainability   |
| 2:35 PM to 3:10 PM | <b>Setting by Context – Presentation on India: Transforming to a net-zero Emissions Energy Scenarios Sketch</b> <ul style="list-style-type: none"><li>• Dr. Ritu Mathur, Director, Integrated Assessments and Modelling Division, TERI</li><li>• Shell</li></ul> |
| 3:10 PM to 3:55 PM | <b>Moderated discussions:</b> <ul style="list-style-type: none"><li>• Comments and Suggestions from Indian industries</li></ul>  |
| 3:55 PM to 4:00 PM | <b>Way Forward &amp; Plan of Engagements</b> by Ms. Taruna Idnani, Manager – Corporate Actions   |