



Title: India's Electricity Transition Pathways to 2050

Date: 8 February 2024

Time: 11:30 – 13:00 hrs. (IST)

Venue: Gulmohar Hall, India Habitat Centre

India is at a critical juncture in its energy transition journey. To meet the anticipated growth in demand for electricity in the coming years, the electricity system infrastructure in the country needs to be built up at much higher scale with appropriate choices not only in the long-term but also in the near-term. TERI's report, "India's Electricity Transition Pathways to 2050: Scenarios and Insights," seeks to provide a comprehensive understanding of the critical issues, challenges and opportunities in the decarbonisation pathways leading to mid-century. With the objective of informing key stakeholders, the study undertakes investigation of anticipated demand and supply scenarios including a stylised scenario on the supply side namely 'No Fossil-fuel Scenario' (NFS) which has a bearing on India's power sector achieving net-zero. The significance of this study lies in its potential to guide strategic decision-making. The report's findings are expected to contribute to the discussions on electricity sector decarbonisation pathways to make informed decisions that will define the trajectory of India's electricity sector landscape.

The thematic track aims to deepen discussions on the critical issues underlined in TERI's report - 'India's Electricity Transition Pathways to 2050'. It seeks to provide actionable insights and targeted recommendations, fostering collaboration among stakeholders for effective implementation of sustainable energy strategies taking a note of the (a) growth of electricity demand in India, (b) RE resource potential in India and alternatives for decarbonisation of power sector, (c) meeting demand in non-solar hours and measures to make the options cost-effective, (d) accelerating collaboration among key stakeholders including industry, main consumer categories shaping the demand profile, etc.

About the World Sustainable Development Summit (WSDS)

The World Sustainable Development Summit (WSDS) is the annual flagship Track II initiative organized by The Energy and Resources Institute (TERI). Instituted in 2001, the Summit series has a legacy of over two decades for making 'sustainable development' a globally shared goal. The only independently convened international Summit on sustainable development and environment, based in the Global South, WSDS strives to provide long-term solutions for the benefit of global communities by assembling the world's most enlightened leaders and thinkers on a single platform. The 23rd edition of the annual flagship event of The Energy and Resources Institute (TERI)—the World Sustainable Development Summit (WSDS)—will be held from 7-9 February 2024 in New Delhi. The Summit deliberations will focus on the umbrella theme: Leadership for Sustainable Development and Climate Justice.