Powering State Climate Action: Using the Energy Policy Simulator to Model Maharashtra's Low Carbon Future

September 22nd, 2026, 10:30 am to 12:00 pm | ***Teams Webinar***

Background

The Government of Maharashtra's Viksit Maharashtra 2047 vision underscores the need for rapid economic growth that is inclusive, resilient, and environmentally sustainable. In parallel, the updated State Action Plan on Climate Change (MH SAPCC) commits the state to ambitious climate goals. Achieving these dual objectives requires robust analytical frameworks that can guide long-term decision-making across different sectors.

To support this need, a suite of integrated energy- economy modelling tools has been developed through collaboration between the Maharashtra Institution for Transformation (MITRA), the State Climate Action Cell (SCAC), Department of Environment and Climate Change (DoECC), Government of Maharashtra, and WRI India. These tools enable evidence-based planning by assessing energy transitions, policy pathways, and their implications for emissions, economic growth, employment, and energy supply mix.

One of these tools is the Maharashtra Energy Policy Simulator (EPS-MH), an open-source model adopted for the state of Maharashtra. EPS is an energy economy model which includes almost every major sector of the economy: transportation, electricity supply, buildings, industry, agriculture, and land use. It also includes other components such as hydrogen supply, district heat, waste management etc. The EPS allows the user to control different policies that affect energy use and emissions in various sectors of the economy (such as carbon tax, fuel economy standards for vehicles, renewable energy standards, electrification of industry, accelerated R&D advancement of various technologies, and many more). The model reports outputs at annual intervals and provides key insights on emissions, energy use and other macroeconomic indicators such as changes in GDP, employment and tax revenues.

Workshop Objectives

- To understand the importance of subnational energy-economy modeling for states' contributions to India's climate and development goals
- To introduce participants to the newly developed Maharashtra Energy Policy Simulator including a tool demonstration

- To demonstrate how this tool can support data-driven policy and planning decisions
- To create a platform for interaction between policymakers, researchers, and practitioners exploring state specific climate models

Target Audience

The webinar is open to all interested participants, including:

- Academicians and researchers
- Policy planners and analysts
- Government departments and agencies in Maharashtra
- Industry professionals
- Students and enthusiasts interested in sustainability and public policy

Tentative Agenda

10:30 am-10:35 am	**Welcome Address** • **Mr. Madhav Pai**, CEO, WRI India
10:35 am – 10:40 am	**Introduction to the Webinar** • **Ms. Ulka Kelkar**, Executive Program Director, Climate Economics and Finance Program, WRI India
10:40 am – 11:10 am	**Opening Remarks** • **Ms. Megan Mahajan**, Senior Manager, Modelling and Analysis, Energy Innovation • **Dr. Anjali Jain**, Consultant - Energy, NITI Aayog **Keynote address** • **Mr. Aman Mittal, (I.A.S)**, Joint CEO, Maharashtra Institution of Transformation (MITRA)**,** Government of Maharashtra
11:10 am – 11:40 am	**Energy Policy Simulator (EPS) Presentation** • Adopting the Model for Subnational Use Case by TTC • Scenario Designs: Business As Usual (BAU) and Long Term Decarbonization (LTD) Scenarios and Policy Levers by WRI India • Web tool demonstration by WRI India
11:40 am – 11:55 am	**Q&A Session**
11:55 am – 12:00 pm	**Concluding Remarks and Way Forward** • **Dr. Varun Jyothiprakash**, Senior Program Manager, Climate Economics and Finance Program, WRI India