



SCALING UP ROOFTOP SOLAR IN MADHYA PRADESH

21 MARCH 2023

Bayleaf Hall, Courtyard by Marriott, Bhopal



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The Rooftop Solar (RTS) segment is critical to meeting India's renewable energy targets. However, with an installed capacity of only 8 GW, this segment is far from the 2022 target of 40 GW. Moreover, it is lagging behind the ground-mounted solar segment in India, which has an installed capacity of >53 GW at present. Thus, well-coordinated efforts are warranted to boost the RTS segment and ensure that it contributes significantly to the 280 GW solar target by 2030.

One of our core competencies at the Center for Study of Science, Technology and Policy (CSTEP), a not-for-profit organisation (under Section 25), is conducting scientific and policy research in the field of RTS systems. Based on our aerial imagery-based RTS potential assessment for cities and towns in India, we develop implementation strategies and roadmaps to aid respective distribution companies (DISCOMs) achieve their RTS targets in a scientific and structured manner.

CSTEP is working as a technical and knowledge partner for Madhya Pradesh Power Management Company Limited (MPPMCL) to assist the three DISCOMs in the state (Madhya Pradesh Paschim Kshetra Vidyut Vitaran Co. Ltd., Madhya Pradesh Poorv Kshetra Vidyut Vitaran Co. Ltd., and Madhya Pradesh Madhya Kshetra Vidyut Vitaran Co. Ltd.) to achieve their 2.2 GW RTS target.

To this end, CSTEP conducted drone-based aerial photogrammetry to assess the potential of every rooftop in Bhopal, Indore, Jabalpur, Gwalior, and Sanchi. Using the aerial imagery-based approach, CSTEP has developed the innovative RTS Explorer tool that can offer accurate information regarding solar generation potential, optimal system design and economics for each consumer, and provide a list of all suitable buildings with geographical coordinates and system sizes to MPPMCL, Energy Department, and respective DISCOMs.

It gives us immense pleasure to announce the formal launch of the RTS Explorer tool for Madhya Pradesh at our event '**Scaling up Rooftop Solar in Madhya Pradesh**'.

The main objectives of the event are listed below:

- Emphasising the importance of RTS in achieving India's renewable energy targets;
- Formal launch of the RTS Explorer tool for Madhya Pradesh;
- Demonstrating the functionalities and utility of the RTS Explorer;
- Capturing the perspectives of different stakeholders (consumers, developers, policymakers, etc.) working in this space;
- Developing the way forward for the DISCOMs to achieve their RTS targets; and
- Planning the scaling up of the state's RTS capacity from the current 230 MW to 2.2 GW and beyond.



In Collaboration with



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Proposed participants:

- Policymakers: Department of Energy (Government of Madhya Pradesh), Madhya Pradesh Power Management Company Ltd, Madhya Pradesh Paschim Kshetra Vidyut Vitaran Co. Ltd., Madhya Pradesh Poorv Kshetra Vidyut Vitaran Co. Ltd., and Madhya Pradesh Madhya Kshetra Vidyut Vitaran Co. Ltd., and Madhya Pradesh Urja Vikas Nigam Ltd.
- Industry Partners: Various large-scale and small-scale rooftop developers operating across Madhya Pradesh, Ecofy (NBFC)
- Funding organisation(s): McArthur Foundation, Sequoia Climate Foundation, Bloomberg Philanthropies
- Consumers
- Think tanks and other partners: Council on Energy, Environment and Water (CEEW), National Solar Energy Federation of India (NSEFI), Abdul Latif Jameel Poverty Action Lab (J-PAL), Edall Systems

For further details, please contact:

Mr Saptak Ghosh, Senior Policy Specialist, Energy and Power, CSTEP, saptakg@cstep.in

Mr Shantanu Roy, Project Manager, Energy and Power, CSTEP, shantanu@cstep.in

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