



Hon'ble Chief Minister of Chhattisgarh  
Shri Vishnu Deo Sai



Hon'ble Prime Minister of India  
Shri Narendra Modi



**Solar on every roof, free electricity for every home!**  
**हर छत पर सोलर, हर घर को मिले मुफ्त बिजली!**

**CHHATTISGARH** | 23 October 2024

## LAUNCH OF CSTEP'S ROOFTOP SOLAR EXPLORER TOOL FOR CHHATTISGARH

The rooftop solar (RTS) segment is critical to meeting India's renewable energy targets. However, with an installed capacity of 14.3 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 >70 GW at present. Thus, well-coordinated efforts are warranted to boost the RTS segment and ensure that it contributes significantly to the 300 GW solar target by 2030.

One of our focus areas 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 of cities and towns in India, we develop implementation strategies and roadmaps to aid distribution companies (DISCOMs) achieve their RTS targets in a scientific and structured manner.

CSTEP is currently working as a technical and knowledge partner for the Chhattisgarh State Power Distribution Company Limited (CSPDCL) to assist the DISCOM in achieving its 700 MW RTS target. The Chhattisgarh government's efforts to increase its rooftop solar capacity have garnered the interest of industries that are now involved in setting up rooftop solar in many districts of the state. To help Chhattisgarh achieve its rooftop solar goals, CSTEP conducted drone-based aerial photogrammetry to assess the potential of every rooftop in Raipur, Raigarh, Bilaspur, Durg, and Korba. Using the aerial imagery-based approach, we 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 CSPDCL.

The portal will be launched by the Honourable Chief Minister of Chhattisgarh, Shri Vishnu Deo Sai, on 23 October 2024 in the presence of other CSPDCL officials. The RTSE tool is linked to the Ministry of New and Renewable Energy's national portal for the PM Surya Ghar Yojana.

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**About CSTEP:** CSTEP is a not-for-profit research organisation with a mission to enrich policymaking with innovative approaches using science and technology for a sustainable, secure, and inclusive society. Our interdisciplinary research encompasses diverse fields such as energy, urban development, climate, and air pollution.

**About the [Renewable Energy and Energy Efficiency](#) team:** The RE & EE team at CSTEP focusses on the greater integration of renewables and reduction of waste energy in various sectors. This includes working with utilities to improve rooftop solar penetration, mapping the potential of various renewables across the country, and analysing the energy usage of MSMEs to reduce their fossil fuel consumption.

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