

Workshop

Mainstreaming of BIPV under PM Surya Ghar scheme across India

Date: 4 December 2024

Venue: Room No. 319, Atal Akshay Urja Bhawan, MNRE, New Delhi

Background

On 29 February 2024, the Government of India (GoI) approved the PM Surya Ghar scheme to increase the share of rooftop solar (RTS) capacity and empower residential households to generate their own electricity. The scheme has an outlay of INR 75,021 crore and is to be implemented till the financial year (FY) 2026–27. Under the scheme, GoI has allocated INR 500 crore for the scheme component 'Innovative Projects'. This component aims to showcase and demonstrate innovative solar technologies, applications, or integration techniques to drive industry advancement and RTS adoption in the country. Building-integrated photovoltaics (BIPVs) have now also been included in the scheme and are eligible for government subsidies similar to residential RTS systems.

By integrating solar panels into the building envelope, BIPVs present an innovative way of deploying solar PV. BIPV systems offer multiple benefits, such as clean energy generation, cost savings in building materials, and improvements in the building's energy efficiency, while seamlessly integrating with the building's architectural aesthetics. The potential of BIPVs in India's existing building stock is estimated at approximately 309 GW. However, mainstreaming BIPVs will need synergetic efforts from all relevant stakeholders.

Recognising this, the Ministry of New and Renewable Energy (MNRE) is organising a workshop on Wednesday, 4 December 2024, at Atal Akshay Urja Bhawan, MNRE, New Delhi, with support from Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ) and the Center for Study of Science, Technology and Policy (CSTEP).

Objective

This workshop will bring together a diverse group of stakeholders from India and abroad, including officials from government ministries, building developers, solar EPC firms, manufacturers, research institutions, architects, and other experts. The participants will discuss the global status of BIPVs in areas such as design, manufacturing, and deployment, while addressing specific needs for the Indian market, including standards and market requirements. Through this collaborative forum, the workshop aims to gather insights, suggestions, and recommendations to refine the Draft BIPV guidelines, ensuring that the guidelines are comprehensive, practical, and aligned with the unique needs of India's emerging BIPV sector. Moreover, the workshop will play a crucial role in shaping strategic pathways to scale up BIPV adoption in India.

Tentative Agenda

Time	Session	Person/Organisation
09:30 AM–10:00 AM	Registration	
10:00 AM–10:10 AM	Welcome remark and opening address	MNRE (to be confirmed)
10:10 AM–10:20 AM	Keynote address	MNRE (to be confirmed)
10:20 AM–10:30 AM	Brief presentation on the component 'Innovative project' under the PM Surya Ghar: Muft Bijli Yojana	Rooftop cell, MNRE
10:30 AM–11:10 AM	Draft Guidelines for BIPV in India: <ul style="list-style-type: none"> • Design and technical specifications • BIPV installation, safety, O&M, and quality measures • Policy and regulatory compliance (20 min presentation, followed by open discussion)	CSTEP, SPA-New Delhi, and Daniel Lipschits
11:10 AM–12:10 PM	International perspective on BIPV R&D, manufacturing, and deployment	Mr Dieter Moor, Arconsol, Austria Mr Hans-Peter Merklein, Ex. Envelon, Germany Mr Gazmend Luzi, Sunage, Switzerland Mr Dirk Bräunlich, Von Ardenne, Germany
12:10 PM–12:30 PM	BIPV: Standards for India	NISE
12:30 PM–12:50 PM	BIPV: Perspective of the architect and building developer	TERI
12:50 PM–01:00 PM	Closing remarks	Mr Abhinav Jain (GIZ)
01:00 PM onwards	Networking lunch	