

Workshop on AgriPV in India- Scope and Prospects

Date: 23rd June 2023, 10 AM – 5:30 PM

Venue: MNRE Auditorium, Atal Akshay Urja Bhavan, CGO Complex, Lodhi Road, New Delhi-110003

Programme

Time	Session/Topics	Speakers/Panellists
09:30 – 10:15 hrs	Registration and networking tea	
10:30 – 17:30 hrs	Presentations and Networking	
10:00- 11:15 hrs (5 – 10 minutes each)	Inaugural Session	<ul style="list-style-type: none"> • Welcome Address by Dr. Arun K. Tripathi, Advisor/Scientist-G, MNRE • Special Address by Mr. Lalit Bohra, Joint Secretary, MNRE • Research Perspective by Dr. Vishwanathan Chinnuswamy, Joint Director, IARI • Address by Mr. Tobias Winter, Director, IGEF • Inaugural address Shri Bhupinder Singh Bhalla, Secretary, MNRE • Vote of thanks by Mr. Julie Reviere, Country Director, GIZ
11:00 – 13:00 hrs	<p><u>SESSION 1</u></p> <p>Status and scope of AgriPV in India</p> <ul style="list-style-type: none"> • Status of AgriPV • Potential of AgriPV • Business models • Policy & regulations • AgriPV from MNRE perspective 	<p>Panellists:</p> <ul style="list-style-type: none"> • Max Trommsdorff, Fraunhofer ISE • Mr. Pulipaka, NSEFI • Saptak Ghosh, CSTEP • Siddhant Awasthi, EY • Praveen Arora & Suruchi Kotosky, BTG Legal • Suman Chandra, Deputy Secretary, MNRE
13:00 - 14:00 hrs	LUNCH BREAK	

<p>14:00- 15:30 hrs</p>	<p style="text-align: center;"><u>SESSION II</u></p> <p>AgriPV from the Agriculture Perspective: Agriculture research, farming and farmers perspective</p> <ul style="list-style-type: none"> • Agriculture, crop suitability and research scope • AgriPV in arid zones • Capacity building on APV • Skills and opportunities 	<p>Special note: Prof. Dr. Indramani Hon Vice Chancellor Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Dr D.K. Singh, Principal Scientist, IARI • Dr. Priyabrata Santra, Principal Scientist, CAZRI • Ms. Tripthi Khanna, National Project head, Gramin Vikas Trust (GVT) • Mr. Arpo Mukherjee, EY
<p>15:30 – 16:00 hrs</p>	<p>TEA BREAK</p>	
<p>16:00 – 17:30 hrs</p>	<p style="text-align: center;"><u>SESSION III</u></p> <p>AgriPV Case Studies</p> <ul style="list-style-type: none"> • Case study 1 – Learnings and economics on 1.4 MW_{dc} pilot • Case study 2 – Challenges on the existing system • Case study 3 – Latest technologies suiting AgriPV and university collaboration • Agri PV scheme launched by Maharashtra • Open discussion • Concluding remark • Vote of Thanks 	<p>Panellists:</p> <ul style="list-style-type: none"> • Mr Vivek Saraf, CEO, Sunseed APV • Mr. Surinder Ahuja, CEO, Sun Master • Mr. Balaji & Lakshmi Santhanam, CEO, Renkuba • TBC, MEDA • Dr. Anil Kumar, Scientist D, MNRE • Mr. Abhinav Jain, GIZ

1st Workshop on AgriPV in India- Scope and Prospects

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Lodhi road, New Delhi-110003

Background

AgriPV has gained significant attention worldwide as it addresses the dual challenges of food security and clean energy generation. By utilizing agricultural land for solar energy generation, AgriPV offers the dual benefit of enhancing energy production while maintaining agricultural productivity. Presently under the KUSUM scheme, MNRE promotes the installation of solar on agricultural land. The workshop will also highlight the agricultural perspective, focusing on crop suitability, research scope, capacity building, and real-project experiences.

Objective

The Workshop, organized by the MNRE R&D Division and GIZ, convened stakeholders from the agriculture and renewable energy sectors, including researchers, policymakers, farmers, industry experts, and academicians. By facilitating knowledge exchange and collaborative discussions, the workshop aims to:

- Raise awareness about the potential, benefits, and technical feasibility of AgriPV systems.
- Identify research gaps and potential areas for future collaboration.
- Discuss business models, policy frameworks, and incentives to promote AgriPV adoption.
- Share best practices and success stories from national and international AgriPV projects.
- Foster networking and partnership opportunities among participants.

Participation

The Workshop was attended by nearly 150 participants from R&D institutes, academia, not-for-profits, donor organizations, and the private sector. It highlighted successful case studies of AgriPV projects implemented across India.

Key Takeaways

- AgriPV can lead to several advantages such as increased land productivity, reduced water usage, and improved ecosystems. However, it is essential to consider multiple perspectives and viewpoints on AgriPV to promote its development and widespread adoption.
- The success of AgriPV depends on site selection, design, orientation of PV panels, and crop selection.
- Skilling programs to create new job roles such as Agricultural Advisors and Agri Design Engineers is an important area of intervention.
- Going forward, the MNRE plans to support the preparation of feasibility reports of AgriPV pilots at different research institutes across the country and explore the formation of a Centre of Excellence for AgriPV in the country.