

# REPORT

on

**Three Days Workshop**

:

## **"Agri-Photovoltaic Technology"**

Date : 22<sup>th</sup> - 24<sup>st</sup> February, 2025



**Centurion**  
**UNIVERSITY**

*Shaping Lives...*  
*Empowering Communities...*

Organized by

**School of Engineering and Technology, Bhubaneswar**

in collaboration with

**Skill Council for Green Jobs (SCGJ)**


**Centurion University of Technology and Management,  
Odisha, India**

## Introduction :

The Three-Day Workshop on **Agri-Photovoltaic Technology** was successfully conducted from **22nd to 24th February 2025** at the Aqua Hall, CUTM, Bhubaneswar, Odisha. Organized under the **Indo-German Energy Programme**, where GIZ is supporting **Ministry of New and Renewable Energy (MNRE)**, through a new initiative titled “**New & Innovative Solar Areas (INSolar)**”. As part of this initiative, **GIZ** is exploring innovative solar applications across India and supporting the project “**Trainings in New and Innovative Solar Applications (TISA)**.” In collaboration with the **Skill Council for Green Jobs (SCGJ)**, this workshop aimed to enhance knowledge and skills in the integration of solar energy with agriculture. Agrivoltaic systems, also known as agrisolar or dual-use solar, involve the simultaneous use of land for photovoltaic power generation and agriculture. The global adoption of agrivoltaics has seen rapid growth, with the installed capacity increasing from **2.9 GW in 2018 to 14 GW in 2021**. This workshop played a key role in strengthening the skilled workforce in India's solar energy and agriculture sectors by providing hands-on training and expert insights from industry and academia.

## Objectives :

- **Enhance awareness of agrivoltaic technology and its applications.**
- **Develop skills in APV system design, operation, and maintenance.**
- **Understand the policy and regulatory framework for APV projects.**
- **Provide hands-on exposure through site visits and real-world case studies.**
- **Foster collaboration between industry professionals, researchers, and students.**



german cooperation giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH TISA Training in New & Innovative Solar Applications SCGJ SKILL COUNCIL FOR GREEN JOBS EY Building a better working world

**THREE DAYS WORKSHOP ON  
AGRI-PHOTOVOLTAIC TECHNOLOGY**

In Association with

Centurion UNIVERSITY  
INSTITUTION'S INNOVATION COUNCIL  
Ministry of Education

**22<sup>nd</sup>-24<sup>th</sup> February, 2025** **Seat Capacity: 30**  
(Industry People/Ph.D. Scholars)

**Venue: Swimming Pool Hall, CUTM, Jatni-752050, Odisha**

Centurion University of Technology and Management, Odisha  
CAMPUSES: Paralakhemundi | Bhubaneswar | Rayagada | Balangir | Balasore | Chatrapur

## Key Activities :

- **Inauguration Program:** The workshop began with a welcome address and introductory remarks from esteemed faculty and industry representatives, setting the stage for an engaging and informative event. The workshop was also graced by the presence of **Prof. Jagannath Padhi**, Director, CUTM, **Dr. Biswajit Mishra**, Pro Vice-Chancellor (Academics), CUTM, **Dr. Sujata Chakravarty**, Dean, SoET, CUTM, Bhubaneswar, They also shared their insightful perspectives on the workshop.
- **Expert Lectures:**
  - **Day 1:** Introduction to APV, potential assessment, technology details, site selection, and system design, providing foundational knowledge for participants.
  - **Day 2:** Operation, maintenance, troubleshooting, grid integration, regulatory policies, procurement, and business models, equipping attendees with practical and policy-related insights.
  - **Day 3:** Field visit to a 40 kW Agri-Photovoltaic Plant at OUAT, case studies, best practices, and future trends, offering real-world exposure and in-depth discussions on industry applications.
- **Hands-on Training:** Participants gained practical experience in APV system installation and operation, allowing them to understand real-time implementation challenges and solutions.
- **Panel Discussions & Interactive Q&A:** Experts engaged with participants to address key challenges, technical aspects, and innovations in agrivoltaic deployment.
- **Certification Ceremony:** A closing session recognized participants' efforts, with certificates distributed to acknowledge their active involvement in the workshop.

## Key Highlights :

- **Distinguished Presence:** Senior faculty members, industry professionals, and representatives from **SCGJ** and **GIZ** participated in the event.
- **Expert Insights:** Sessions were led by specialists including Dr. Nimay Chandra Giri, Dr. R.C. Mohanty, Mr. Lucky Agarwal, and Dr. Rajendra Kumar Khadanga.

- **Field Visit:** Participants explored a fully operational **40 kW Agri-Photovoltaic Plant** at **OUAT** for hands-on learning.
- **Industry-Academia Engagement:** A total of **26 participants**, including **12 from industry**, contributed to discussions and knowledge sharing.
- **Networking & Collaboration:** Attendees interacted with experts to explore future **research and business opportunities** in agrivoltaics.

## Key Outcomes :

- **Enhanced Knowledge:** Participants gained insights into agrivoltaic system **design, installation, and economic feasibility**.
- **Stronger Industry-Academia Collaboration:** The workshop facilitated discussions between **researchers, policymakers, and industry leaders**.
- **Practical Exposure:** The site visit provided **hands-on learning experiences**, bridging the gap between theory and practice.
- **Policy Awareness:** Discussions on regulatory frameworks and business models helped participants understand the **commercial viability of APV systems**.
- **Future Prospects:** The event laid the groundwork for further research, training programs, and **large-scale APV deployment in India**.

## Future Scope :

The increasing adoption of agrivoltaic technology presents numerous opportunities for **future initiatives**. Strengthening collaborations with global research institutions will enhance **knowledge exchange** and **technological advancements**. Future workshops should incorporate advanced training on **automation, AI-driven solar farming, and sustainable energy practices**.

Encouraging industry participation and policy discussions will drive **large-scale adoption of agrivoltaics**. Additionally, expanding hands-on training for farmers and rural entrepreneurs will promote practical implementation and **wider outreach** of APV systems in India.

## Feedback from Participants:

Participants highly appreciated the structured approach of the **workshop**, emphasizing the balance between **theoretical concepts** and **practical exposure**. Many expressed interest in follow-up sessions, particularly hands-on training and business model discussions. Industry representatives valued the opportunity to connect with **academic researchers** and **explore collaborative projects**. The overall response was overwhelmingly positive, with attendees recognizing the workshop's impact on their **professional growth** and **industry knowledge**.

## Acknowledgements :

We extend our sincere gratitude to all organizing **partners, speakers, and participants** for their contributions to the success of this workshop. Special thanks to **SCGJ** for their financial support of **INR 1.65 lakhs** and to **GIZ** for their continued guidance in **promoting agrivoltaic innovations**. The efforts of student volunteers, faculty members, and industry experts played a crucial role in making this event a **milestone in renewable energy training**. We look forward to organizing more such initiatives in the future.

## Glimpses of the Workshop :



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DEUTSCHE ZUSAMMENARBEIT

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Ministry of Education Initiatives

Seat Capacity: 30  
(Industry People/Ph.D. Scholar)

Entry Link: <https://forms.gle/x1LPDMZAoYi5GZkQ7>  
(No Entry Fees / No TA and Accommodation)

**22<sup>nd</sup> -24<sup>th</sup> February, 2025**

Venue: Swimming Pool Hall, CUTM, Jatni-752050, Odisha

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA, INDIA  
CAMPUSES: Paralakhemundi | Bhubaneswar | Rayagada | Balangir | Balasore | Chatrapur







## Attendees :



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### 'Workshop on "Agri-photovoltaic Technologies"

22-24 February 2025

CUTM, Bhubaneswar

**\*PLEASE FILL THE DETAILS IN CAPITAL LETTERS ONLY**

Sr. No.	Name of the Candidate	Organization	Mobile No.	Aadhaar No./Govt. ID no.	22.02.2025 (Candidate Sign.)	23.02.2025 (Candidate Sign.)	24.02.2025 (Candidate Sign.)
1	DR. RANJAN K. SWAIN	Consultant	8328523117	2318 0589 9163	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	Seemya Swaraj Mohanana	MOHANA SWAIN AND ELECTRICALS	9439918158	309522 98 5394	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	Chandana K. Kundu	ADDRESIA	7787996374	2333968614232	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	Dr. Jyoti Ranjan Sahoo	ADDRESIA	943214224	5414 5554	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5	Dhyanjot Mohapatra	MOLE Ministry	7978250265	703636576053	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	Smadiraajal Pradhan	CDTE	790872852	9556 4750 6705	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	Anil Kumar Sahoo	ADDRESIA	9337245843	9974 7823 4128	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	Jaina Mehta	ADDRESIA	9523515151	347429168368	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	T. Bharati	ADDRESIA	7090093253	6898 8572 6343	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	Alok Kumar Nayak	PhD Scholar	8984476113	699429091618	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	Naman Kanyo	PhD scholar	700629177	287890136663	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	Swarupa Swaita	PhD Scholar	8688545115	9805571152439	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13	Sumit Acharya	PhD Scholar	6870244391	68375297668	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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14	Pooja Kumar Yadav	PhD scholar	2305061920	6261810246	722791954661	Pooja Kumar	Pooja Kumar	Pooja Kumar
15	Satyajit Pattnaik	PhD scholar	6457191285	6457191285	7778857912	Satyajit Pattnaik	Satyajit Pattnaik	Satyajit Pattnaik
16	Pooja Smriti Nayak	PhD scholar	880416152657	880416152657	81144384076	Pooja	Pooja	Pooja
17	Dipan Kumar Das	PhD scholar	458762547668	458762547668	7077861774	Dipan Kumar Das	Dipan Kumar Das	Dipan Kumar Das
18	Sonfani Kumar Nayak	PhD scholar	249091792173	249091792173	8917300132	Sonfani Kumar	Sonfani Kumar	Sonfani Kumar
19	Somya Samantary	PhD scholar	46010061387	46010061387	7008351391	Somya Samantary	Somya Samantary	Somya Samantary
20	Nikanka Das	PhD scholar	62419211266	62419211266	8144224116	N. Das	N. Das	N. Das
21	Arushi K Mishra	B.Tech	517835877183	517835877183	9861250767	Arushi Mishra	Arushi Mishra	Arushi Mishra
22	Sasmita Rath	Graduation	9090093328	9090093328	599700520649	S.Rath	S.Rath	S.Rath
23	Nirmal Ku Tripathi	Diploma	909009229	909009229	42117143037	NT	NT	NT
24	Hansaj Ku Phistry	B.Tech	802770717	802770717	88305315270	Hansaj	Hansaj	Hansaj
25	Bibhu Charan Swain	M.Tech	9437155337	9437155337	269507365577	Bibhu	Bibhu	Bibhu
26	Biplab Ku. Behera	HSC ETC	9361424112	9361424112	773982616374	Biplab	Biplab	Biplab
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# Certificates :

