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Public Engagement and Advocacy for the Transition to 100% Renewable Energy

Centurion University of Technology and Management (CUTM) promotes public pledges to India's commitment of 100% renewables by 2030 through external workshops and at and public events including Energy Conversation Week.

Agri-Photovoltaic Technology Workshop: Advancing India's Clean Energy Transition

Centurion University of Technology and Management (CUTM), Bhubaneswar Campus, successfully organized a Three-Day Workshop on Agri-Photovoltaic Technology from 22nd to 24th February 2025 in collaboration with the Skill Council for Green Jobs (SCGJ) under the Indo-German Energy Programme (INSolar Project), supported by GIZ and the Ministry of New and Renewable Energy (MNRE), Government of India.

The workshop served as a capacity-building initiative to strengthen knowledge and technical competencies in Agri-Photovoltaics (Agri-PV), an innovative approach that integrates solar electricity generation with agricultural production to promote sustainable land use, clean energy access and climate-resilient farming.

The programme was organized by the School of Engineering and Technology (SoET), CUTM, under the coordination of Dr. Nimay Chandra Giri, Assistant Professor. A total of 26 participants, including faculty members, researchers, students, industry professionals and renewable energy practitioners, attended the programme, while an estimated 100 indirect beneficiaries were expected to benefit from the dissemination of knowledge and good practices.

The workshop aligned with India's national clean energy transition and its commitment to achieving 500 GW of installed electricity capacity from non-fossil fuel sources by 2030, alongside its long-term net-zero emissions goal for 2070. Within this broader policy context, Agri-PV offers a promising pathway to expand solar applications beyond conventional installations by enabling agricultural activities and electricity generation to coexist on the same land. The workshop explored how such integrated systems can support renewable energy deployment while contributing to farmers' livelihoods, efficient land utilization and sustainable rural development.

Across 12 technical sessions, participants gained exposure to the principles, design, installation, operation and maintenance of Agri-PV systems through expert lectures, interactive discussions, laboratory demonstrations and field-based learning. The sessions examined opportunities to enhance agricultural productivity, diversify farmers' income, optimize land use, conserve water and reduce greenhouse gas emissions, while considering practical implementation challenges.

Conducted as part of the Trainings in New and Innovative Solar Applications (TISA) initiative, the workshop brought together academic and industry expertise on emerging solar technologies, agrivoltaic business models, policy frameworks, financing mechanisms and entrepreneurship. Practical sessions introduced participants to system design considerations, installation techniques, performance monitoring and real-world applications of Agri-PV technologies.

The programme supported Sustainable Development Goals (SDGs) 2 (Zero Hunger), 7 (Affordable and Clean Energy), 8 (Decent Work and Economic Growth) and 13 (Climate Action), with additional relevance to SDG 9 (Industry, Innovation and Infrastructure), SDG 12 (Responsible Consumption and Production) and SDG 15 (Life on Land). By strengthening technical capacity and promoting industry–academia–government collaboration, the workshop contributed to the development of green skills needed for India's evolving renewable energy sector. It demonstrated how Agri-PV can help connect clean electricity generation with productive agriculture, sustainable livelihoods and climate-resilient rural communities. The initiative reinforced CUTM's commitment to experiential learning and innovative solar applications, contributing to the wider national effort to accelerate the clean energy transition and advance sustainable development.

Resource Persons

The Three-Day Workshop on Agri-Photovoltaic Technology featured distinguished experts from academia and industry who shared their expertise in renewable energy, agrivoltaics, sustainable agriculture, and capacity building.

Sl. No.	Name of the Resource Person	Designation and Affiliation	Area of Expertise
1	Mr. Lucky Aggarwal	Managing Director, Solar Tech Saarthi Pvt. Ltd., New Delhi	Solar photovoltaic technologies, agrivoltaic systems, and renewable energy entrepreneurship.
2	Dr. Nimay Chandra Giri	Assistant Professor, School of Engineering and Technology, CUTM, Odisha; Master Trainer, Skill Council for Green Jobs (SCGJ), India	Renewable energy systems, green technologies, and capacity building in innovative solar applications.
3	Dr. R. C. Mohanty	Professor, Centurion University of Technology and Management (CUTM), Odisha	Sustainable energy technologies, engineering education, and industry–academia collaboration.

4	Dr. M. K. Mohanty	Professor, Renewable Energy Division, Odisha University of Agriculture and Technology (OUAT), Bhubaneswar, Odisha	Renewable energy technologies, sustainable agriculture, agrivoltaic systems, and the integration of clean energy solutions into climate-resilient farming practices.





Photographs during the Sessions

One-Week Residential Training Programme for Joint Directors and Principals of Government ITIs of Uttar Pradesh

Centurion University of Technology and Management (CUTM), Odisha, successfully hosted a One-Week Residential Training Programme for Joint Directors and Principals of Government ITIs of Uttar Pradesh from 10th to 15th November 2025. A total of 30 participants attended the program.The programme was designed to strengthen leadership, innovation, and sustainability-driven practices in technical and vocational education through a unique blend of academic sessions, hands-on laboratory exposure, industry-linked learning, and cultural immersion. Participants were introduced to emerging domains such as Industry 4.0 & 5.0, Artificial Intelligence, IoT, AR/VR, Renewable Energy, Waste-to-Wealth technologies, Drone Technology, Blockchain, and NEP 2020 implementation, alongside sessions on leadership, branding, and skilling ecosystems. The training concluded with a formal graduation ceremony graced by senior government officials, reinforcing CUTM's commitment to experiential learning, institutional transformation, and sustainable skill development.

Energy Conservation Week

Energy Conservation Week (14–20 December) was organized by the Department of Electrical & Electronics Engineering (EEE), School of Engineering and Technology, with the objective of promoting awareness about energy efficiency, sustainable energy use, and responsible electricity consumption. The week-long programme was attended by 35 participants, including students and faculty members, and aimed to educate them on energy conservation practices while encouraging sustainable development through responsible energy management. As part of the celebrations, Mr. Prashant Das, Ex-EIC (Electrical) delivered an expert lecture highlighting the significance of energy

conservation, emerging challenges in the power sector, and the crucial role of engineers in advancing sustainable energy solutions. To extend the awareness beyond the campus, participants organized a mass awareness rally, carrying placards with messages such as “Save Energy, Save Future” and “Energy Saved is Energy Generated”, encouraging the public to adopt energy-efficient practices. The programme successfully strengthened awareness among students and the community, reinforcing the importance of energy conservation in achieving a sustainable future and contributing to SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action).

2-Day Workshop on Foundations of SDGs: Understanding, Integrating and Applying for Sustainable Futures

The Centre for Governance and Sustainable Societies in collaboration with the School of Management, Centurion University of Technology and Management, Bhubaneswar, organized a two-day workshop on “Foundations of SDGs: Understanding, Integrating and Applying for Sustainable Futures” on 19th–20th September 2025. 29 students from Management, Engineering and 4 faculty members participated in this workshop.

The workshop was designed to build awareness, knowledge, and practical understanding of the Sustainable Development Goals (SDGs), Clean energy and their relevance in addressing pressing global and local challenges. With carefully curated sessions, the program integrated theoretical grounding with practical applications, ensuring participants gained holistic insights into sustainability. The Workshop was organised by Dr. Shiv Sankar Das, Faculty at SoM.

Day 1: Understanding the Basics & Global Context

The first day focused on familiarizing participants with the foundations of SDGs and exploring their global significance:

- Session 1 (10:00 – 11:15 AM): Introduction to SDGs, tracing the evolution of sustainability, an overview of all 17 goals, and interactive discussions.
- Session 2 (11:30 AM – 1:00 PM): Deep dive into SDGs 1–6, covering poverty, hunger, health, education, gender equality, water, and sanitation. Group activities mapped local issues with these goals.
- Session 3 (2:00 – 3:15 PM): Exploration of SDGs 7–12, including energy, work, innovation, inequalities, cities, and sustainable consumption. Case studies from India and global practices were discussed.
- Session 4 (3:30 – 5:00 PM): Dedicated to SDGs 13–15, focusing on environment and climate change, life below water, and life on land. A reflection exercise linked environmental SDGs for deeper understanding.

Day 2: National Context & Practical Applications

The second day emphasized India’s development priorities and practical approaches to SDG integration:

- Session 5 (10:00 – 11:15 AM): India’s SDG agenda, National Indicator Framework (NIF), and insights from NITI Aayog’s SDG Index with case studies.
- Session 6 (11:30 AM – 1:00 PM): Focus on SDGs 16 & 17, covering peace, justice, partnerships, and governance. Discussions emphasized building effective collaborations.
- Session 7 (2:00 – 3:15 PM): Tools and approaches for SDG integration, including mapping, mainstreaming, monitoring, and evaluation methods such as Voluntary Local Reviews.

- Session 8 (3:30 – 5:00 PM): Action planning and drafting SDG-based strategies. Participants engaged in group presentations followed by reflections and certificate distribution during the closing ceremony.

Key Highlights

- Hands-on group activities, case studies, and reflection exercises enriched participant engagement.
- Focused attention on both global SDG frameworks and India-specific strategies, creating a balance between theory and practice.
- Special emphasis on collaborative approaches and tools for effective implementation.

Objectives of the Workshop

The 2-Day Workshop on "Foundations of SDGs: Understanding, Integrating and Applying for Sustainable Futures" was organized with the following objectives:

1. To introduce participants to the concept, evolution, and framework of the Sustainable Development Goals (SDGs).
2. To provide a deep dive into the 17 SDGs, highlighting their interconnectedness and global significance.
3. To contextualize the SDGs within India's development priorities, showcasing the National Indicator Framework and NITI Aayog's SDG Index.
4. To build participant capacity in mapping, mainstreaming, monitoring, and evaluating SDG-based initiatives.
5. To encourage collaborative approaches and partnerships in achieving SDGs through case studies and panel discussions.
6. To equip participants with tools and methods for action planning and developing locally relevant SDG strategies.

Learning Outcomes

At the end of the workshop, the participants were expected to achieve the following learning outcomes:

1. Comprehension: Gain a clear understanding of the 17 SDGs, their targets, and relevance in both global and local contexts.
2. Critical Analysis: Develop the ability to critically analyze development challenges through the SDG lens.
3. Application: Learn practical tools and approaches for integrating SDGs into policies, projects, and organizational strategies.
4. Collaboration: Understand the importance of partnerships, governance, and community engagement in accelerating SDG progress.
5. Problem-Solving: Demonstrate skills in mapping local issues to specific SDGs and formulating actionable solutions.
6. Strategic Planning: Draft SDG-based action plans with measurable outcomes, applying monitoring and evaluation frameworks.

7. Reflection: Connect environmental, social, and economic dimensions of sustainability for holistic development planning.

Conclusion

The workshop successfully provided participants with a comprehensive understanding of the SDGs, bridging the gap between conceptual knowledge and real-world application. By integrating global perspectives with India's developmental priorities, the program empowered participants to apply sustainability principles in diverse contexts and contribute meaningfully toward achieving the SDGs.






Workshop on SDG from 19-20th Sep 2025

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5-Day English Teachers' Training Programme under CHSE: Promoting Awareness of Renewable Energy and Sustainability

Centurion University of Technology and Management successfully conducted a 5-Day English Teachers' Training Programme from 20th to 24th June 2025, aimed at enhancing the teaching competencies and classroom strategies of English language educators. A total of 44 English lecturers from various institutions across Odisha participated in this capacity-building initiative.

Beyond strengthening pedagogical skills, the programme provided an opportunity to encourage educators to integrate sustainability, climate change awareness, and clean energy themes into English language teaching and community engagement. Through discussions, collaborative activities, presentations, and reflective learning, participants could explore how communication and education can raise public awareness of renewable energy and sustainable development. The programme's broader outreach potential lies in empowering teachers to act as ambassadors for sustainability beyond the university by facilitating discussions in their respective institutions, encouraging student-led awareness activities, sharing information on renewable energy, and supporting community conversations on the transition towards cleaner energy systems.







Building Green Champions through English Language Education

"My name is Ananya Mishra, and I have been teaching English for more than eight years. When I enrolled in the 5-Day English Teacher's Training Program at Centurion University, I expected to improve my classroom communication techniques and teaching methods. What I experienced, however, was much more transformative. The training not only strengthened my pedagogical skills but also demonstrated how language education can contribute to sustainability and climate action, particularly Sustainable Development Goal 7—Affordable and Clean Energy. One of the most inspiring aspects of the program was the way sustainability themes were integrated into classroom activities and communication exercises. Through group discussions, role-plays, lesson planning, and presentation activities, we explored how English classrooms can be used to raise awareness about renewable energy, energy conservation, and environmentally responsible lifestyles. I realized that language teaching is not confined to grammar and literature—it can also empower students to become informed and responsible global citizens.

The workshops introduced us to digital teaching tools, collaborative learning strategies, and innovative classroom practices that made learning more interactive and meaningful. I designed lesson plans using clean energy case studies, debates on renewable energy, and reading passages focused on climate resilience and sustainable development. These activities encouraged students to improve their communication skills while simultaneously developing an understanding of real-world environmental challenges. The exposure to Centurion University's sustainability initiatives further reinforced my learning. Visiting the campus and interacting with faculty gave me practical examples of how renewable energy, sustainable agriculture, and green technologies can become powerful educational resources. I returned to my institution with renewed confidence to integrate SDG-based themes into English language teaching, making classroom discussions more relevant, engaging, and socially impactful.

Today, my students actively participate in debates, presentations, and creative writing activities centered on clean energy and sustainable living. They are learning English while also developing awareness of environmental responsibility and the importance of transitioning to renewable energy. This training has transformed my perspective as an educator. It has shown me that every English classroom can become a platform for promoting Sustainable Development Goal 7 by inspiring young people to communicate, innovate, and advocate for a cleaner and more sustainable future."

MoU with BRLF

Centurion University signed a Memorandum of Understanding (MoU) with the Bharat Rural Livelihood Foundation (BRLF) to collaborate on research, documentation, training and skill development, as well as field-level demonstrations and trials. This partnership will focus on agricultural development and farmers' empowerment in the tribal regions of Odisha. The MoU will remain in effect for three years, concluding in June 2028.





5-Day Faculty Development Programme for Senior Lecturers from Government Polytechnic Colleges across Odisha: Advancing Green Skills and Renewable Energy Awareness

Centurion University successfully organized a 5-Day Faculty Development Programme (FDP) from 30th June to 4th July 2025 for Senior Lecturers from Government Polytechnic Colleges across Odisha. The programme aimed to enhance pedagogical and leadership capacities, with 33 participants attending the initiative. Organized in collaboration with the Government of Odisha and the Directorate of Technical Education and Training (DTET), the FDP provided a platform for knowledge sharing, professional development and innovation in technical education.

The programme focused on innovative teaching and learning methodologies, leadership and strategic management, digital transformation, and industry–academia collaboration. Through expert-led discussions, interactive workshops, hands-on laboratory activities and case-based learning, participants explored approaches to strengthening technical education and aligning it with emerging industry requirements. Daily yoga sessions also supported holistic well-being. Beyond institutional capacity building, the FDP offered a potential channel for extending sustainability and renewable energy awareness through technical education networks across Odisha. Senior lecturers can help integrate clean energy concepts, energy efficiency, climate action and green skills into teaching, student projects and institutional activities. Through their respective colleges, participants can also encourage discussions on renewable energy adoption, organize awareness events, engage students in sustainability initiatives, and facilitate dialogue with local communities and industry stakeholders on the transition towards cleaner energy systems.









Empowering Technical Educators for Sustainable Development

"I am Pradeep Kumar Mohanty, a Senior Lecturer at a Government Polytechnic College in Odisha with over twelve years of experience. The 5-Day FDP at Centurion University broadened my understanding of how technical education can contribute to SDG 7—Affordable and Clean Energy. Exposure to solar energy installations, electric mobility, and climate-smart agriculture highlighted the importance of experiential learning in preparing future engineers. Inspired by the programme, I have begun integrating renewable energy, energy efficiency, and sustainable engineering practices into my teaching and encouraging students to undertake clean energy innovation projects. The FDP strengthened my commitment to embedding sustainability in technical education and contributing to India's clean energy transition."

"Transforming Leadership Through Experiential Learning at Centurion University"
(Perspective of a Government ITI Principal, Uttar Pradesh)

"As the Principal of a Government ITI in Uttar Pradesh, I attended the One-Week Residential Training Programme at ***Centurion University of Technology and Management (CUTM), Odisha****, with the expectation of learning about new developments in technical education. The programme exceeded my expectations by providing practical exposure to emerging technologies such as Artificial Intelligence, Industry 4.0, IoT, AR/VR, renewable energy, drone technology, and waste-to-wealth innovations. What impressed me most was CUTM's experiential learning model, where classrooms were seamlessly integrated with laboratories, production units, and industry-linked facilities. The interactions with faculty, industry experts, and fellow administrators inspired me to rethink institutional leadership, strengthen industry partnerships, and promote innovation-driven skill development in my own institute. After returning, I initiated discussions on modernizing our training infrastructure, incorporating technology-enabled teaching practices, and fostering stronger industry engagement. This programme not only enhanced my professional knowledge but also equipped me with practical strategies to transform my institution into a more future-ready and sustainable technical education ecosystem."*

Report on Two-Day Workshop on Skill Development, Solar Energy, Smart Manufacturing and Sustainability Solutions

The Department of Mechanical Engineering in collaboration with the School of Management, Centurion University of Technology and Management (CUTM), Odisha, organized a Two-Day Workshop on "Skill Development, Solar Energy, Smart Manufacturing, and Sustainability Solutions" on 24th–25th October 2025 at Hall No. 6, Aryabhatta Building, CUTM Bhubaneswar Campus. 82 participants were engaged in this workshop. The workshop aimed to promote awareness, technical expertise, and hands-on understanding of the latest advancements in solar energy technologies, smart manufacturing processes, and sustainable development models. It served as a platform for students, faculty, and industry professionals to exchange knowledge, explore innovations, and build capacity in the rapidly evolving green technology domain.

Sl. No.	Objective	Description
1	Enhance Skill-Based Learning	Strengthen the practical skills of students and faculty in solar energy, automation, and sustainable manufacturing.
2	Provide Hands-on Technology Exposure	Familiarise participants with modern technologies, including solar PV systems, energy management tools, and smart factory models.

3	Bridge Academia–Industry Gaps	Facilitate knowledge exchange through expert-led sessions, industry interactions, and technology demonstrations.
4	Promote Sustainability Awareness	Encourage the adoption of green energy solutions and sustainable practices in institutional and industrial settings.
5	Encourage Interdisciplinary Collaboration	Promote collaboration between engineering and management students to develop a holistic understanding of clean technologies and their applications.

3. Workshop Highlights

Sl. No.	Key Highlight	Details
1	Expert Sessions	Interactive sessions led by industry professionals and academic leaders on renewable energy and smart manufacturing.
2	Technology Demonstrations	Demonstrations of solar photovoltaic systems, smart sensors, and industrial automation technologies.
3	Hands-on Training	Practical training in solar module design, performance evaluation, and sustainability analytics.
4	Policy and Business Model Discussions	Discussions on policy frameworks, business models, and strategies supporting clean energy adoption.
5	Interactive Panel Discussion	Panel discussion on “Smart Manufacturing for a Sustainable Future,” focusing on Industry 4.0, the circular economy, and local innovations.

The sessions on Day 1 focused on sustainability innovations, additive manufacturing, solar thermal energy applications, and clean energy products. Eminent speakers included Mr. R.K. Mishra (Ex-Executive Director, NALCO), Dr. Bijaya Bijeta Nayak (KIIT), Dr. Sudhansu S. Sahoo (OUTR),

and Dr. Debashree Debadatta Behera (CUTM). Day 2 featured insightful discussions on aligning technology with SDGs, integrating renewable power for a greener world, and diffusion of clean energy products in rural areas. Sessions were conducted by Dr. Supriya Pattanayak (Vice-Chancellor, CUTM), Dr. Sujata Chakraborty (Dean-SoET, CUTM), Dr. R.C. Mohanty (Dean-Research, CUTM), and Dr. Shiv Sankar Das (SoM, CUTM).

4. Learning Outcomes

At the end of the workshop, participants were able to:

1. Understand the fundamentals of solar energy systems and their applications in rural and urban contexts.
2. Demonstrate knowledge of smart manufacturing concepts, including digitalization, IoT integration, and automation.
3. Apply sustainability principles in designing and managing energy-efficient systems.
4. Gain practical skills in solar installation, maintenance, and performance monitoring.
5. Analyze the role of skill development and policy initiatives in advancing India's renewable energy goals.

5. Relevance to Centurion University's Sustainability Mission

This workshop aligns with Centurion University's broader commitment to Sustainable Development Goal 7 (Affordable and Clean Energy) and its ongoing initiatives in clean energy research, rural innovation, and carbon neutrality. By fostering skill-based learning and applied research in renewable technologies, the program strengthens CUTM's role as a pioneer in green education and sustainable community transformation.

6. Feedback and Conclusion

Participants expressed high levels of satisfaction with the practical demonstrations and expert-led sessions. The interactive nature of the workshop encouraged curiosity and collaboration across disciplines. In conclusion, the Two-Day Workshop on Skill Development, Solar Energy, Smart Manufacturing, and Sustainability Solutions successfully achieved its objectives by enriching participants' technical knowledge, promoting sustainability thinking, and building capacity for India's clean energy future. The workshop was coordinated by Dr. Shiv Sankar Das, Faculty SoM and Dr. Debashree Debadatta Behera, SoET, CUTM.

Photos













Attendance Sheet



