SRM UNIVERSITY – AP, ANDHRA PRADESH

Events and Initiatives

Expert Talks, Workshops, Summits and Community Training that Advance Clean Energy

SRM University-AP, Amaravati, Andhra Pradesh

7 AFFORDABLE AND CLEAN ENERGY

OVERVIEW

Events and Initiatives for SDG 7

Clean energy depends on people who understand it: engineers who can design power electronics and storage systems, researchers who follow the latest methods, and communities that can put simple technologies such as solar drying to work. SRM University-AP supports this through a steady programme of expert talks, hands-on workshops, summits and training sessions. This page features the events from the SDG 7 annual reports for AY 2024-25 and AY 2025-26 that are documented with photographs.

AY 2024-25

Featured Events, AY 2024-25

Skill Enhancement Programme on Renewable Energy and Smart Transportation (22–26 July 2024)

Organised by the Department of Electrical and Electronics Engineering, this hybrid five-day programme was for faculty, PhD scholars and PG students. Sessions covered advanced power converters, microgrid operation through real-time simulation, charging infrastructure and battery state-of-charge estimation, renewable-source control and grid integration, and bidirectional power conversion for energy storage. Resource persons came from IIT Hyderabad, NIT Warangal and industry. Participants were 10–12 external attendees, 21 PhD scholars and 4 UG students.



Image 1: Participants seated at computers in a hall during a session



Image 2: A presentation slide on screen with participants at workstations



Image 3: Participants and a speaker at a projected screen in a computer lab

Training of Rural Women Entrepreneurs, Nellore – CSR ADITRI (29 December 2024)

The Directorate of Entrepreneurship & Innovation “CSR ADITRI Team” held an offline training session at Nellore, Andhra Pradesh, from 10:00 AM to 5:00 PM for women entrepreneurs selected from earlier bootcamps under the CSR ADITRI project. It gave advanced training in operating solar drying units alongside sanitary pad manufacturing, to build technical

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skills, business management insight and sustainable, eco-friendly production practices. There were 41 participants (33 external, 8 staff).



Image 4: Women participants seated under a shaded shelter listening to a speaker



Image 5: Women participants seated in rows under a shaded shelter

Outcome. Participants gained practical skills in running solar drying units and in manufacturing, supporting sustainable income generation and improved access to affordable sanitary products in rural communities.

Battery Modeling – Talk under the Power and Control Club (26 March 2025)

Dr Satyavir Singh spoke to 24 undergraduate students on battery parameter and capacity estimation: equivalent-circuit and data-driven models, state of charge and state of health, and their use in battery management systems for electric vehicles and renewable energy storage. The talk was organised by the Department of Electrical and Electronics Engineering.



Image 6: Participants at the battery modelling talk

AY 2025-26

Featured Events, AY 2025-26

Green Hydrogen Summit 2025 (18–19 July 2025)

The Green Hydrogen Summit was a national-level summit held at the APJ Abdul Kalam Auditorium with NREDCAP (Government of Andhra Pradesh), Greenko, AM Green, BPCL, NTPC, IIT Tirupati and other industry and government partners. It brought academic, government and industry stakeholders together to advance research, policy and commercialisation of green hydrogen, covering production, storage and applications, and created a platform for partnerships and investment in clean-hydrogen technologies.

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Image 7: Panel discussion, Green Hydrogen Summit 2025



Image 8: Summit venue, APJ Abdul Kalam Auditorium

Outcome. The summit led to the AP State Green Hydrogen Valley Declaration. SRM University-AP was recognised as the nodal agency for green hydrogen projects in Andhra Pradesh, and the Government of Andhra Pradesh formed an Advisory Council to guide clean-energy projects.

OPAL-RT Workshop: From Simulation to Implementation – Rapid Control Prototyping (14–18 March 2026)

A technical workshop with OPAL-RT Technologies introduced Real-Time Hardware-in-the-Loop (HIL) testing for power and energy systems, so that participants could move from offline simulation (MATLAB/Simulink, PSIM) to real-time validation relevant to power electronics, smart grids, renewable energy and EV systems. There were 60 participants. Participants gained hands-on experience in model validation, controller testing and real-time system integration applicable to renewable energy and electric-vehicle system development.



Image 9: Workshop flyer

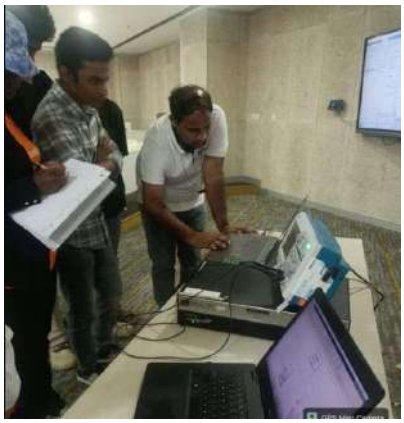


Image 10: Hands-on HIL demonstration

Workshop on DSP Controllers for Electric Vehicle Applications (30–31 March 2026)

Held with Solidpro Engineering Support Pvt. Ltd. for 75 participants, this hands-on workshop covered DSP controllers, real-time control systems, motor drives and EV system integration, giving practical exposure to programming, interfacing and the battery management systems used in electric mobility. Participants gained practical skills in DSP-based EV control, motor drives and battery management, and exposure to current industry practice in electric mobility.

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Image 11: Hands-on DSP controller workshop session

Guest Lecture: A Journey Towards the Development of Sustainable Energy Materials (10 April 2026)

Prof. Bhaskar Biswas of the University of North Bengal gave an invited lecture to 59 participants on bioinspired strategies and hierarchical coordination molecules for sustainable energy materials, covering applications in catalysis, energy conversion and energy storage. It strengthened understanding of advanced material design for energy conversion and storage and encouraged interdisciplinary collaboration among students and researchers.



Image 12: Guest lecture announcement

High-Efficiency Drive Systems: Current Applications and Emerging Solar-Driven Solutions (6 July 2026)

Dr Pratikanta Mishra of NIT Meghalaya gave a technical session at V-105, VS Block, for 15 participants on high-efficiency electric drive systems and their integration with solar photovoltaic technology for industrial and transportation applications, covering power electronics, motor control and energy-efficient drive design. It strengthened participants' understanding of solar-driven drive systems and their role in reducing energy consumption and emissions.

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Image 13: Event flyer

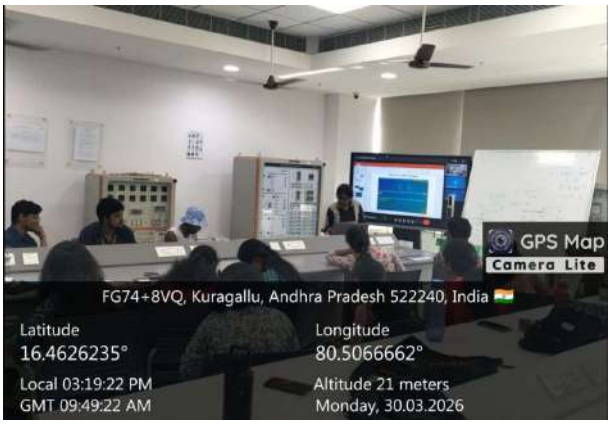


Image 14: Session in progress

WHY IT MATTERS

Why These Events Matter for SDG 7

Together the events span the energy chain: generation and storage (green hydrogen, batteries, solar drying), power electronics and control (drive systems, DSP controllers, hardware-in-the-loop testing), and community capability (training for rural women entrepreneurs). They give faculty, research scholars and undergraduates direct access to current methods and practitioners, and carry clean-energy skills beyond the campus.

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