



Report on GUEST LECTURE “Energy Storage Solutions for Renewable Integration”

Date : 13.08.2025

Time : 11.00 a.m

Venue: Siemens Integrated Engineering Design Research Lab

The Department of Electrical and Electronics Engineering organized an insightful guest lecture on “Energy Storage Solutions for Renewable Integration” on 13th August 2025 at 11:00 AM. The event was conducted at the Siemens Integrated Engineering Design Research Lab, AVIT.



The Guest Speaker of the day was Mr. Shebeer Mohammed, Founder & CEO, *enRobosys Pvt Ltd*, Chennai. The welcome address was delivered by Dr. K.Boopathy, Professor of the Department of EEE.

After a brief introduction about the guest by a student representative, the session was taken over by Mr. Shebeer Mohammed. With his vast expertise in electric vehicle production machinery manufacturing and renewable energy technologies, Mr. Shebeer provided the participants with an in-depth understanding of the role of energy storage systems in integrating renewable energy sources into the power grid.

The lecture covered:

- The growing importance of renewable energy in the “Electrification of Everything” era.
- Challenges such as intermittency, demand–supply mismatch, and grid constraints.
- Different categories of energy storage technologies — short-term, medium-duration, long-duration, and fast-response solutions.
- Real-world applications and emerging research opportunities, including innovative concepts like lightning energy capture.

The session was interactive, with active participation from both students and faculty. The audience engaged in discussions on technical challenges, future prospects, and the role of engineers in driving clean energy adoption.



The event aimed at equipping budding engineers with updated knowledge on energy storage trends and encouraging research that bridges academia with industry needs. It also highlighted the potential for collaborative projects between AVIT and *enRobosys Pvt Ltd*.

There were about 45 participants from various departments, including students and faculty members. The lecture was well-received and concluded with a vote of thanks proposed by a student representative.

Our heartfelt thanks to Mr. Shebeer Mohammed, Guest Speaker, for his insightful keynote address and for addressing all queries from participants.

We also sincerely thank the Management, Principal, and Head of the Department of EEE for their continuous support in organizing such valuable knowledge-sharing sessions.