



# 5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFet 2025)

09 July - 12 July, 2025, MNIT Jaipur, Rajasthan, India

Call for Papers for the Special Session (SS07)

## Towards Net-Zero: Sustainable Building Energy Systems & Management

### Topics

- Electrical Energy Efficiency and Innovations: Energy-efficient lighting, smart grids, and renewable energy integration through photovoltaics and battery systems tailored for buildings.
- Sustainable Building Energy Management Systems: Advanced HVAC systems, radiative cooling, phase change materials (PCM), and thermoelectric technologies to reduce building energy loads.
- IoT and Automation: The role of smart sensors, building automation systems, and AI-driven analytics in optimizing energy performance.
- Energy Conservation Strategies in Buildings: Hybrid thermal-electrical systems, demand-side management, and retrofitting solutions for existing buildings.
- Net-Zero Energy Buildings: Design principles and technologies enabling the transition to self-sustaining buildings that generate as much energy as they consume.

### Queries on Special Session—Contact Us

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### Submission Portal

After login, select Special Session (SS 07) "Towards Net-Zero: Sustainable Building Energy Systems & Management"

### Special Session Organizers



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**Dr. Chirodeep Bakli**

Assistant Professor, IIT Kharagpur



**Dr. Aritra Ghosh**

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**Submission Deadline**  
**30 January 2025**

**Conference Website**

[www.sefet.in](http://www.sefet.in)

All presented papers will be considered for further review and publication in IEEE Transactions on Industry Applications and IEEE Industry Applications Magazine.