

# CALL FOR PAPERS

## Special Session: **Renewable Energy Systems**

Organizers:

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Dear Colleagues,

It is our pleasure to invite you to participate in the joined conferences 2025 IEEE Autumn Meeting on Power, Electronics and Computing (ROPEC), by submitting papers on any topic related to this special session, which focuses in presenting recent advances around renewable energy and microgrids, such that a better and sustainable world is achieved. New research developments in this topic provide environmental and technological benefits; therefore, it is necessary to propose technologies and methodologies for adequate energy utilization.

The topics of interest in this session include (but are not limited to):

- Data science in energy systems
- Renewable energy in smart grids
- Control systems for grids and microgrids
- Stability, adaptability, and resiliency of renewable-based energy systems
- Power quality and ancillary services through renewable energy
- Frequency estimation in renewable-energy-based power systems
- Virtual inertia through energy storage
- Stochastic modeling and control of renewable energy
- Microgrids coordination
- Voltage and frequency regulation via inverters and renewable energy-based microgrids
- Energy storage and energy management
- Renewable energy generation and integration (solar, wind, biomass, biofuels, etc.)
- Electricity market
- Energy optimization and modeling

IEEEExplore will index all papers accepted and presented at the conference.

General information regarding manuscript submission, important dates, conference fees, and local accommodation can be found at: <https://2025.ropec.org/>

Sincerely yours,

Organizers of the Special Session