

CALL FOR PAPERS

CONFERENCE THEME

“Next-Generation Energy Systems: Intelligence, Resilience and Decarbonization”

The IEEE International Power and Renewable Energy Conference (IPRECON 2027) is the 5th edition of **India’s first and only IEEE Club of 6 Conference**, technically co-sponsored by **IEEE IAS and IEEE PES** and organized by the **IEEE Student Branch College of Engineering Karunagappally**. IPRECON 2027 serves as a premier platform for **students, researchers and professionals** to share cutting-edge innovations. Scheduled to be held from **15–17 October 2027**, at the **College of Engineering Karunagappally, Kerala, India**, the conference will feature **technical sessions, keynote talks and workshops**. This edition revolves around the theme **“Next-Generation Energy Systems: Intelligence, Resilience and Decarbonization,”** highlighting the fusion of **power systems, renewable energy, electronics, artificial intelligence and data science** to shape a **sustainable and intelligent future**. All accepted papers will be submitted for inclusion in the **IEEE Xplore® Digital Library**, subject to **IEEE quality standards**.

IMPORTANT DATES

01st
NOV 2026

PAPER SUBMISSION
OPENS

31st
JUL 2027

NOTIFICATION OF
ACCEPTANCE

01st
FEB 2027

PAPER SUBMISSION
CLOSES

31st
AUG 2027

CAMERA READY
PAPER



TOPICS OF INTEREST

We invite authors from across the globe to submit their original research contributions aligned with the following tracks, but not limited to:

Track 1: Power and Energy Systems

- Power Converters and Control Systems
- Power Quality and Power Flow Control
- Smart Grid Technologies
- Distributed Generation and Grid Interconnection
- Energy Policies and Standards
- High Voltage Engineering and Insulation for Power Systems

Track 2: Renewable Energy and Storage

- Solar, Wind and Hybrid Energy Systems
- Energy Storage Systems and Battery Management
- Microgrid Technologies
- Electric Vehicles and Charging Infrastructure
- Grid Modernization and Integration

Track 3: Power Electronics and Control

- Power Electronic Converters and Drives
- Control Strategies for Renewable Energy Systems
- Wide Band Gap Devices and Applications
- Electric Machines and Motor Control
- HVDC and FACTS Technologies

Dates: 15th, 16th and 17th October 2027

Conference Paper Submission Requirements

The conference will be held in **Hybrid Mode**. The maximum page limit is **six pages including references**. No author biography at the end is permitted. In case additional pages are necessary, pages up to 8 pages are permitted subject to payment of **Rs. 1000 (\$25) extra per each additional page**. The details regarding the platform for the virtual attendees of the conference and how to access it will be provided via e-mail, after registration. Attendee registration includes access to all technical sessions and keynotes.

Track 4: Computing, Artificial Intelligence, and Data Science for Energy Systems

- Machine Learning and AI for Smart Grids
- Predictive Maintenance and Fault Detection
- Big Data Analytics for Power Systems
- Nature-Inspired Optimization Algorithms
- Digital Twin and Cyber-Physical Systems
- Blockchain and Cybersecurity in Power Infrastructure
- AI-Based Energy Forecasting
- Data-Driven Decision-Making in Energy Systems

Track 5: Electronics and Embedded Systems

- IoT-Based Energy Systems
- Wireless Sensor Networks
- Embedded Systems for Power Applications
- Semiconductor Technologies for Renewable Energy
- Advanced Lighting Technologies

Track 6: Emerging Technologies and Interdisciplinary Solutions

- Smart Cities and Infrastructure Automation
- Energy Management in Industrial Systems
- Swarm Intelligence and Intelligent Control Systems
- Virtual Power Plants and Distributed Energy Resources
- Advanced Energy Storage Techniques

PAPER SUBMISSION

Authors are invited to submit a **6-page full paper in standard IEEE format** for review. The conference proceedings will be submitted to the IEEE Xplore® Digital Library.

20% of the presented conference papers will be eligible for further review and possible publication in the IEEE IAS periodicals (Transactions, Magazine)



IEEE | **SB**

CONFERENCE REGISTRATION

Each paper must be covered by a full IEEE member or Non-Member registration fee by one of the authors. IEEE members are requested to provide the IEEE membership number and upload their IEEE Membership Card during the online registration process, if registering under the IEEE category. IEEE membership validation will be done after registration, failing which they will be required to pay the applicable balance registration fee of the relevant category. Students need to upload their valid student ID card during the registration process, if registering under the student category, failing which they will be required to pay the applicable balance registration fee of the relevant category. Please keep a copy of the transaction ID generated by the payment gateway as well as by your bank. You may need these later if you need to track your payment or registration. All correspondence regarding your registration for IPRECON 2027 should contain your **Paper ID** and registration confirmation number.