



# The Institution of Engineers (India)

*A Century of Service to the Nation*



## 36th National Convention of Electrical Engineers on Future Electricity Systems : Challenges and Current Trends NCEFES- 2021 in Hybrid Mode (Online & Offline) November 27-28, 2021

Organized By



**The Institution of Engineers (India)**  
Jodhpur Local Center  
Under the aegis of Electrical Engineering Division Board, IEI

in association with

**Indian Institute of Technology, Jodhpur**  
and  
**Electrical Engineering Department, M.B.M Engineering College, Jodhpur**

## ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with its headquarter at 8 Gokhale Road, Kolkata 700020, India, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering. In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 125 Centres located across the country and six overseas chapters.

Besides, IEI has bilateral agreements with about 31 international bodies and membership of another eight international bodies of the developed nations across the globe. Being recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, postgraduate students and PhD Research Scholars of Engineering Institutions and Universities. IEI in collaboration with Springer regularly publishes peer reviewed International Journals in five series, namely, Series A, Series B, Series C, Series D and Series E covering 15 engineering disciplines. All these Journals are SCOPUS Indexed and UGC-CARE listed.

**For further details, please visit: [www.ieindia.org](http://www.ieindia.org)**

## About the Convention

Electrical power systems have been traditionally designed taking energy from high voltage level and distributing it to lower voltage level networks. There are large generation units connected to transmission networks. But in the past few years a trend has been established wherein many small generators are connected to the distribution networks. However, future electricity systems will require massive deployment of distributed energy resources (DER), especially distributed generation (DG) based on renewable energy sources (RES). Efficient integration of this distributed generation requires network innovations. A development of active distribution network management, from centralized to more distributed system management, is needed. Information, communication, and control infrastructures will be needed with increasing complexity of system management. Therefore, there is a need to have deliberations on many issues specially the challenges and current trends associated with future electricity system.

**For further details, please visit: [www.ncefes2021.in](http://www.ncefes2021.in)**

## Aim of the Convention

The NCEFES 2021 aims to bring the researchers, academicians, industry, and government personnel together to share and discuss the various aspects of future electricity system. The convention will witness multiple eminent keynote speakers from academia and industry from all over the world along with the presentation of accepted peer-reviewed articles. The after-conference proceeding of the NCEFES 2021 will be published.

## Call for Papers

The NCEFES 2021 aims to bring the researchers, academicians, industry, and government personnel together to share and discuss the various aspects of Future Electricity Systems. The convention will witness multiple eminent keynote speakers from academia and industry from all over the world along with the presentation of accepted peer-reviewed articles. The after-conference proceeding of the NCEFES 2021 will be published in some reputed journal.

## The topics covered (but are not limited to) in the convention are as follows:

- Distributed generation and Power Quality

- Smart micro grid
- Self-Healing Wide-Area Protection and Islanding
- Environmental issues
- Application of Machine Learning in Power Systems
- Internet of Things (IOT)
- Reactive Power Control and Pricing
- Integration of Communication Technology
- Renewable energy/Alternative Energy
- Advanced monitoring and novel control strategies
- Regulatory issues including various barriers
- Ancillary services and metering
- Load Forecasting
- Future Electricity Systems
- Provision of Scada in Transmission and Distribution
- FACTs Controller
- Reliability of distributed energy systems
- Real time simulation and contingencies analysis
- Standards (IEEE 1547, UL-1741, etc.)
- Economic benefits
- Data Acquisition
- Security Concerns
- Sustainable Development and Renewable Energy
- Energy Conservation

## Paper Submission

The authors are invited to submit the Full papers of their Research/Review work. The papers will be peer-reviewed and only the accepted and registered papers will be considered for presentation during the convention and publication in the proceedings/Journals

## Guidelines for Authors

Authors intending to submit a paper for the National Convention are advised to adhere to the guidelines as mentioned below:

1. Papers should be camera-ready in MS-Word format, not exceeding 3000 words in length and should not carry more than 5 illustrations/photographs.
2. The language of the Publication is English. The mode of presentation should be in third person.
3. SI units should be used wherever applicable. Other units, if used, should be given only in parentheses preceded by SI units.
4. Mathematical symbols should be typed and care should be taken to differentiate between similar characters (e.g. 1 and l), upper and lower case letters and superscripts and subscripts.

5. Lengthy mathematical proofs and derivations and extensive test data should be given as an appendix.

6. The Template of Paper can be downloaded from the link:

[https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers)

The papers will be submitted in two-step process

## Step-1

### Process of submission:

1. Go to <https://easychair.org/conferences/?conf=ncefes2021>
2. For existing EasyChair users - Login with username & password For new users – Create an EasyChair account by clicking create an account and Login
3. Submit the article by clicking make a new submission under the Author Heading.

## Step-2

After the papers are peer-reviewed and accepted for presentation, the authors have to deposit the Registration Fee along with a copyright declaration form (available at here), details of which will be communicated to the author along with the acceptance.

Publications:

- Few selected papers will be recommended to the Journals of IEI Series B, which is SCOPUS-indexed. Fast-track review of those papers by the Editorial Team of the Journals will be ensured.
- Extended Version of few papers will be considered for publication in the Int. J. of Swarm Intelligence (<https://www.inderscience.com/jhome.php?jcode=ijsi#journalDetail>)
- Technical Volume of the National Conventions with ISBN will be brought out.
- In the Technical Volume, abstract of all papers accepted for presentation will be published along with the full text of the papers, which have not been recommended to the IEI journal.
- The papers submitted to the journal, if found unacceptable by the Editorial Team of the journals, will be accommodated in a supplementary Technical Volume of the Convention.

## COPYRIGHT

The papers will be considered for possible publication on the understanding that these have not been submitted to any other publisher. The copyright of papers accepted for publication lies with The Institution of Engineers (India) and reproduction of the papers or any part thereof is not allowed without the permission of the Institution. Contributors are required to sign a Declaration Form as enclosed to this effect while submitting their papers. As per Bye-Law 118 of IEI, Copyright of each paper published in Institution Journals or Proceedings in full or in Abstract at its Centers shall lie with the Institution.

### For any clarification please contact :

E-mail : [ncefes2021@gmail.com](mailto:ncefes2021@gmail.com)

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## DATES TO REMEMBER:

Full length Submission	10 <sup>th</sup> October 2021
Notification of Acceptance	10 <sup>th</sup> November 2021
Registration of accepted papers without late fee	20 <sup>th</sup> November 2021
Convention Dates	27 <sup>th</sup> & 28 <sup>th</sup> November 2021

## REGISTRATION & PAYMENTS

All payments are to be made through crossed Demand Draft / Cheque / NEFT/ Online Net Banking Transfer In favour of "The Institution of Engineers (India), Jodhpur. In case of NEFT / Online Net Banking transfer please mention the following

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## REGISTRATION FEES

Author Category	Registration Charges upto 20.11.2021	Registration Charges after 20.11.2021
Regular Author IEI Member	3000 INR	4000 INR
Regular Author Non IEI Member	4000 INR	5000 INR
Regular Author from outside India	120 USD	150 USD
Listener (Non-Author/Co-Author/ General Participants) from India	1500 INR	2000 INR
Listener (Non-Author/Co-Author/ General Participants) from Outside India	50 USD	75 USD

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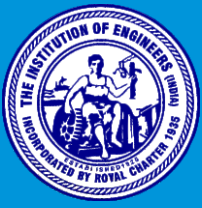
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**NCEFES- 2021**

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## REGISTRATION FORM

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Jodhpur (Raj.)

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