



IEEE 25-27 NOV

P I I C O N 2022
10TH POWER INDIA INTERNATIONAL CONFERENCE

2022 IEEE 10th POWER INDIA INTERNATIONAL CONFERENCE NOVEMBER 25 - 27, 2022

Recent Advancements in the area of Electrical Engineering,
Decarbonisation of Grid and EV Infrastructure.

Organized by National Institute of Technology, Delhi, India

Technical Sponsors



Financial Co-Sponsors

IEEE PES-IAS Delhi Chapter

IEEE PELS-IES Delhi Chapter

IEEE 25-27 NOV

P I I C O N 2022
10TH POWER INDIA INTERNATIONAL CONFERENCE

VENUE

National Institute of Technology Delhi
Plot No. FA7, Zone P1, GT Karnal Road,
Delhi-110036, India

PIICON 2022

10th Power India International Conference (PIICON 2022) being sponsored by IEEE Delhi Section, IEEE PES-IAS Delhi Chapter & IEEE PELS-IES Delhi Chapter was organized and hosted by National Institute of Technology Delhi, India during 25th November – 27th November 2022. The theme of the Conference was “Recent Advancements in the area of Electrical Engineering, Decarbonisation of Grid and EV Infrastructure” very appropriate and relevant having the following tracks:

Track1: Grid Decarburization and Integration of Renewable Energy Systems

Track2: Power and Energy Engineering

Track3: Data Analytics & AI Application for Power Systems

Track4: Transportation and Energy Storage

Track5: Grids, Smart Grids, Microgrids and AC & DC

Track6: Power Electronics Components and their Applications

Track7: Energy Managements, Electricity Market and Policy/ Regulatory Aspects

521 manuscripts were submitted to IICPE2023, of which 212 papers were accepted in the final program. Total 194 papers were presented during the conference in person mode.

The participants of PIICON 2022 got benefited from the Keynote speech and tutorials presented by the following high profile speakers:

1. Prof. Bhim Singh, Fellow IEEE, IIT Delhi, New Delhi
2. Prof. N. P. Padhi, Fellow IEEE, Director MNIT Jaipur
3. Prof. S. N. Singh, Fellow IEEE, Director ABV-IIITM Gwalior
4. Prof H.M. Suryawanshi, Fellow IEEE, Director, NIT Hamirpur
5. Prof Sudip K. Mazumdar, Fellow IEEE, University of Illinois Chicago
6. Prof. SuKumar Mishra, IIT, Delhi
7. Prof. B. K. Panigrahi, IIT Delhi
8. Prof Virendra Singh IIT Bombay
9. Mr Yogesh Agarwal Vice President ABB Digital (Energy Industries) Asia Pacific, Malesia
10. Dr. Ajeet Kumar Technical Principal- RAMS at Mott Macdonald Bangalore

Department of Science & Technology New Delhi, OPAL-RT Technologies, Typhoon HIL, M/s Design Tech, M/s Technosys Systems, ICICI Bank, FLUKE, AGMATEL and M/s. HIOKI provided the financial support. The conference ended with the valedictory session and vote of thanks to all the contributors.

Organizing Committee

Patrons

Prof. Ajay K Sharma, Director, National Institute of Technology Delhi, India

Prof. Bhim Singh, Indian Institute of Technology Delhi, India

General Chairs

Dr. Vivek Shrivastava, National Institute of Technology Delhi, India

Dr. Ujjwal Kumar Kalla, Maulana Azad National Institute of Technology, Bhopal

Publication Chair

Prof. Subrata Mukhopadhyay, NSUT Delhi

Technical Program Committee

Prof. Sukumar Mishra, Indian Institute of Technology Delhi

Prof. B. K. Panigrahi, Indian Institute of Technology Delhi

Prof. Prerna Gaur, NSUT Delhi

Prof. D. K. Jain, DCRUST, Murthal

Conference Secretary

Dr. Anmol Ratna Saxena, NIT Delhi

Dr. Anshul Agarwal, NIT Delhi

Steering Committee

Prof. Alka Singh, DTU Delhi

Dr. Ahteshamul Haque, JMI New Delhi

Dr. Akhilesh Mathur, MNIT Jaipur

Dr. Amit Kumar Singh, NIT Delhi

Dr. Anmol Ratna Saxena, NIT Delhi

Dr. Anshul Agarwal, NIT Delhi

Mr. Anshul Varshney, CSIR – National Physical Laboratory of India

Dr. Arun K Verma, MNIT Jaipur



Prof. Bhim Singh
(IIT Delhi)
IEEE Fellow
EV Chargers and Charging
Infrastructure.



Prof. S. N. Singh
(Director ABV-IIM Gwalior)
IEEE Fellow
Digital Energy Transformation



Prof. N. P. Padhy
(Director MNIT Jaipur)
Basics to Advance Technology



Prof. Hiralal Murlidhar
Suryawanshi
(Fellow IEEE, Director, NIT
Hamirpur)
IEEE Fellow
Converters for Renewable
Energy Systems



Prof. Sudip K. Mazumder
(University of Illinois Chicago)
IEEE Fellow
Optically Controlled Power Semiconductor
Devices for Smart Grid



Prof. Sukumar Misra
(IIT Delhi)
Achieving Near-Zero-X
Through
PVEV Charging Station



Prof. B K Panigrahi
(IIT Delhi)



Prof. Virendra Singh
(IIT Bombay)
Security Issues In Cyber
Physical Systems



Dr. Ajeet Kumar
(Technical Principal-RAMS at
Mott MacDonald, Bangalore)
Functional Safety of Electrical and
Electronics Systems to Railway Applications



Mr. Yogesh Agarwal
(Vice President ABB Digital
(Energy Industries) Asia Pacific)
Digital Strategies in achieving
Net Zero Energy Transition

S P E A K E R S





List of Session Chairs

Date	Session	List of Chairs
25-11-2022	3:00 pm-4:30 pm	Prof Dinesh Jain; Dr. AVANISH TRIPATHI; Dr. Manohar Singh; Dr. Satish Sharma; Prof Bhim Singh; Dr. Anmol R Saxena
	4:45 pm – 6:15 pm	Dr Shivkumar V; Dr A.R. Gupta; Dr. Akanksha Shukla; Dr. Alka Singh; Prof. Subrata Mukhopadhyay; Dr. Risha Mal
26-11-2022	10:00 am – 11:30 am	Dr. Sanjay Tolani; Dr. Shailendra Kumar; Dr. Rajesh Pindoria; Dr. Anshul Varshney; Dr. Sanjeev Singh
	3:30 pm – 5:00 pm	Dr. Ajeet Kumar; Dr. Sunanda Sinha; Dr. Pankaj Mukhija; Dr. Monika; Dr. Priyesh Chauhan
27-11-2022	11:30 am – 1:00 pm	Dr. Nidhi Singh; Dr. Amit Kumar Singh; Dr. Sunanda Sinha; Dr. Souvik Ganguly; Dr. K.T. Raju
	2:45 pm – 4:15 pm	Dr. Vikas Singh Bhadoria; Dr. K.T. Raju; Dr. Manohar Singh; Dr. Dinesh Kumar Jain



presenters

IEEE 25-27 NOV

PIICON 2022

10TH POWER INDIA INTERNATIONAL CONFERENCE



Thankful to our contributors for their financial support for the conference



SILVER CONTRIBUTORS:



Typhoon HIL

