

2024 IEEE 11th Power India International Conference

Report

The conference was held during 10th-12th Dec' 2024 in Malaviya National Institute of Technology Jaipur. The Schedule of the conference included 13 Keynote sessions, 4 tutorials and 5 Technical paper presentation sessions each with 6 parallel sessions. The Details of the Keynote lectures and Tutorials is given below

<p style="text-align: center;">Tutorial 1:</p> <p>Empowering the grid: Exploring electric vehicle grid integration through V2G systems</p> <p>Speakers:</p> <ul style="list-style-type: none"> ➤ Dr. Anurag Sharma, Newcastle University, Singapore ➤ Dr. Dhivya Sampath Kumar, Singapore Institute of Technology, Singapore ➤ Dr. Sayonsom Chanda, NREL, Colorado 	<p style="text-align: center;">Tutorial 2:</p> <p>Small DC-link capacitor-based power converter topologies and related issues</p> <p>Speakers:</p> <ul style="list-style-type: none"> ➤ Dr. Ramkrishan Maheshwari, University of Southern Denmark, Denmark ➤ Dr. Dinesh Kumar, Danfoss Drives A/S, Denmark
<p style="text-align: center;">Tutorial 3:</p> <p>Scaling the grid: Design, development, and application of wide area monitoring system (WAMS) for power grid</p> <p>Speakers:</p> <ul style="list-style-type: none"> ➤ Dr Kapil Chauhan, MNNIT, Allahabad ➤ Dr. Yashasvi Bansal, IIT Delhi 	<p style="text-align: center;">Tutorial 4:</p> <p>Modelling market equilibria in liberalised electricity systems in light of European system developments</p> <p>Speakers:</p> <ul style="list-style-type: none"> ➤ Dr. Hannes Hobbie, TU Dresden ➤ Lisa Lorenz, TU Dresden
<p>Keynote-1: Prof. N. P. Padhy, Director and Chairman BOG, MNIT Jaipur and IIIT Kota</p> <p>Topic: Multi energy integrated AC-DC smart grid</p>	
<p>Keynote-2: Prof. Kaushik Rajashekara, University of Houston, US</p> <p>Topic: Renewable energy based strategies for powering the offshore electrical systems</p>	
<p>Keynote-3: Prof. Bhim Singh, IIT Delhi</p> <p>Topic: Solar photovoltaic energy - A sustainable solution for humanity</p>	
<p>Keynote-4: Prof. Sukumar Brahma, Clemson university, US</p> <p>Title: Power system protection in presence of renewables: Challenges and solutions</p>	
<p>Keynote-5: Prof. Iqbal Hussain, NCSU, USA</p> <p>Topic: Grid interactive inverter controls for the inverter based resources</p>	
<p>Keynote-6: Prof. Sudip Mazumdar, University of Illinois, Chicago</p> <p>Topic: Recent advancements and challenges in power electronics</p>	
<p>Keynote-7: Dr. Ravi Seghal,</p>	

Independent Technical Consultant in Power Sector Topic: Energy transition and the integration costs of renewable energy
Keynote-8: Prof. Chanan Singh, Texas A&M University Topic: Maintaining reliability while the grid transitions towards carbon-neutral electricity
Keynote-9: Prof. Emil Levi, Liverpool John Moores University, UK
Keynote-10: Prof. Sukumar Mishra, Director, IIT Dhanbad
Keynote-11: Prof. Anil Pahwa, Kansas State University, US Topic: Evolution of electric power distribution systems
Keynote-12: Prof. Dipti Srinivasan, NUS Singapore Topic: Ensemble Forecasting techniques for energy systems: Advancing predictive accuracy and reliability
Keynote-13: Prof. Akshay Kumar Rathore, SIT Singapore Topic: Electrification in Singapore - Scope and opportunities

In total 416 papers had been received out of which 223 papers were accepted and finally 193 camera ready papers were submitted and presented. The conference also had one IEEE PELS WIE Panel discussion whose details are given below

IEEE PELS WIE Panel Discussion on “The role of the power sector in the transition to a net-zero future”
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The panelists were Dr. Yashasvi Bansal IIT Delhi, Prof. Anil Pahwa Kansas State University, Dr. Ravi Segal Industrial Consultant, Dr Dhivya Sampath Kumar SIT Singapore and Mr. Nishant Sharma NTPC Ltd.

The conference participants witnessed a cultural program and gala dinner on the 2nd day of the conference. The “Bhike Khan Langa Group” performed for the participants and left them mesmerized by the folk music of Rajasthan.

The conference adopted few steps towards reducing single use plastic in the conference organization as detailed below

1. All the banners were made up of Biodegradable cloth in place of plastic flex material
2. The participants were given food grade plastic bottle which could be used throughout the conference by them to fill it and drink water. No paper/single use plastic glasses were provided to them to drink water.
3. The tea/coffee was served in Clay(Mitti) glasses. Water was served to guests in Clay(Mitti) bottles along with Clay(Mitti) glasses.
4. The conference bag, I card, conference folders etc. were made of Jute.

All the participants welcomed the initiatives of the conference organizers and appreciated. Conference Organizers are thankful to IEEE for giving them this opportunity. Some of the glimpses of the conference are given below



Towards Carbon-Neutral

Chanan Singh, Texas A&M University
Arun Kumar Karngala, Future Labs

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INTERNATIONAL CONFERENCE
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Power and Energy Enabling Technologies
FOR FUTURE GRID

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