

**Thirty-third National Convention of Electrical Engineers 2017 (NCEE 2017)
and National Conference on “Hybrid AC/DC Power Systems for Effective Utilization of Renewable Energy”**

24th – 25th November 2017

Organised by

The Institution of Engineers (India), Tiruchirappalli Local Centre

Under the Aegis of **Electrical Engineering Division, IEI**

In association with **BHEL, Tiruchirappalli and NIT Tiruchirappalli**

Venue: EEE Auditorium, National Institute of Technology, Tiruchirappalli

Technical Session Details

Sl. No.	Session		Paper Nos.	Date	Time	Session chair	Rapporteur
	No.	Theme					
1.	I	Power electronics in renewable energy systems	12, 22 , 23, 33, 41, 46	24.11.2017	02.45 p.m. to 04.15 p.m.	Dr. K. Sundareswaran, EEE, NIT-T.	Dr. S. Senthil Kumar EEE/NIT-T.
2.	II	Energy conservation, control and management	02, 09, 21, 36, 37, 39, 44, 45	24.11.2017	04.30 p.m. to 06.00 p.m.	Dr. C. Nagamani, EEE, NIT-T.	Dr. M. Venkata Kirthiga, EEE/NIT-T.
3.	III	Restructuring, power electronics and optimization techniques	08, 13, 18, 31, 34, 38, 47	25.11.2017	09.30 a.m. to 11.30 a.m.	Dr. M. P. Selvan, EEE, NIT-T.	Dr. S. Moorthi, and Dr. P. Raja, EEE, NIT-T
4.	IV	Microgrid and smart grid technologies	01, 10, 11, 15, 25, 27, 29	25.11.2017	09.30 a.m. to 11.30 a.m.	Dr. Kevin Ark Kumar, BHEL, Tiruchirappalli	
5.	V	Renewable and alternative energy sources	14, 19, 20, 26, 28, 30, 42	25.11.2017	11.45 a.m. to 01.45 p.m.	Dr. K. Shanti Swarup EE, IIT-M	Dr. M. Venkata Kirthiga, EEE/NIT-T.
6.	VI	Hybrid systems and resource assessments	03, 04, 05, 07, 16, 17, 24	25.11.2017	02.30 p.m. to 04.00 p.m.	Dr. S. Arul Daniel, EEE, NIT-T.	Dr. S. Moorthi, EEE/NIT-T.

Paper and Author details

Paper No.	Authors	Paper Title
01	N. S. Suresh, and S. Arul Daniel	Comparison of various Control Strategies for Distributed Inverters Tied to a Micro-Grid
02	M. Coumarane, V. Manoharan	Effective planning on Energy Conservation Measures through Online Power and Energy Monitoring System at NLCIL, Neyveli
03	R. Meenal and A. Immanuel Selvakumar	Solar Resource Assessment and Life Cycle Cost Analysis of Solar PV in India
04	S. Priya, S. Vijiyalakshmi, S. Prassanna Perumal, M. Marimuthu	A Survey on Wind-Solar Hybrid Renewable Energy System
05	G. Saravana Venkatesh, R. Rengaraj	Investigation of Wind Speed Characteristics in Six Offshore Regions across India
07	A. K. Khanra, D. Krishnamurthy and J. Santhosh	The Study of Hybrid Systems of Solar, Wind and Small Hydro Energy in the Indian Perspective
08	R. Vijayaragavan and B. Umamaheswari	Steady State Analysis and Optimal Planning of an all-DC High Power Quality Park: A Retrofit Approach on a University Campus
09	A. Mahaboob Subahani, S. Senthil Kumar, N. Kumaresan, K. Ravi Ratna Roja	Control of SEIG system for Supplying Isolated DC Loads
10	V. Chandrasekar, Sigi C Joseph and Z V Lakaparampil	Concept of Vehicle to Grid Interconnections: a Hybrid Approach of Power and Transportation for Indian Smart Grid
11	Sampada Sunil Sahare and M. P. Selvan	Comparison of Different Phase Shift Control Techniques for Isolated Bidirectional DC-DC Converter (IBDC) for Battery Charging Application
12	C. Maria Jenisha, N. Ammasai Gounden, D. R. Binu Ben Jose and R. Aiswarya	Power Electronics Converter with Improved Switching Strategy for PV Systems
13	Prasanajit Khatua, M. Suman and M. Venkatakirthiga	Estimation and Analysis of Harmonics And Power Factor Correction in a Modern Steel Manufacturing Facility
14	P. Padmagirisan, V. Sankaranarayanan and A. Joseph Godfrey	Control of a Solar Powered Single Stage Induction Heating System
15	Shrihariprasath Basuvaian and Vimalathithan Rathinasabapathy	IoT based Solar Photo Voltaic Monitoring Systems
16	M.V.Suganyadevi, P.Pavithraa, K.G.Pavithra Devi, A.Yuvarani	Estimation of Loadability Margin in Restructured Power System
17	S. Balamurugan	Design of Wind – Solar based Hybrid Electric Vehicle
18	K. M. Sreedivya D. Devaraj and P. Aruna Jeyanthi	Sliding Mode Control based Power System Stabilizer for Damping the Low Frequency Oscillations
19	N. Raman	Renewable Energy – The Future of Indian Power Grid
20	M. S. Suhanya, A. Tirumalendra Reddy and N. Kumaresan	Analysis and Simulation of Stand-alone DFIG employing a Battery Single Inverter Scheme

Paper No.	Authors	Paper Title
21	S. Kumaravel , Vinu Thomas, Terence O'Donnel and S. Ashok	Transient Frequency Response Improvement of Microgrid using Virtual Synchronous Machine
22	S. Kumaravel, Sandeep Kumar Tripathy, Vinu Thomas and S. Ashok	Performance Analysis of a Z-Source Inverter with Controller for Autonomous System Application
23	G Sujatta, and M. Lalitha Charumathi	Effects of HVDC Converter Generated Disturbance in Power Line Carrier Communication and Radio systems
24	Rini Chandra	Integration of Solar & Wind power through HVDC and Flexible Control of HVDC to Maintain Grid Stability
25	P. Padmagirisan ,V. Sankaranarayanan and A. Joseph Godfrey	Design of Solar Simulator using Programmable Power Supply
26	K. Karthick, G. Naresh Babu and S. Suresh	Efficient Energy Storage System for Thermo Electric Generator using PCM and Alumina Nanoparticles
27	P Tamilmani, M. Suman, and M. Venkatakirthiga	Co-ordinated Controller for Demand Side Management
28	K. Ranjith Kumar And H Rizwan Zaman	Renewable Energy based Water Pumping System employing Zeta Converter with BLDC Motor
29	D. Arunkumar, S. Rajendran and A. Ramkumar	Closed Loop Control of SVPWM based STATCOM with Renewable Energy
30	Ragupathi Muthu, T Hari Prasath, R Chokkalingam and S Rajendran	Review on Sea Water Purification using Solar Energy
31	K. Ranjith Kumar and A.Thivagar	THD Reduction in Multi-Level Inverter using Trapezoidal Triangular PWM
33	M. Sumedha, S. Senthilkumar, N. Kumaresan and N. Ammasai Gounden	Development of a UPF Three Phase Rectifier with Split DC Bus based on SEIG-Scott Connected Transformer
34	R. Seyezhai, S. Dhivya and D. Umarani	Evaluation of Modulation Strategies for Single-Phase Quasi Z-Source Inverter
36	N. Babu, V. Vignesh, Dibyaraj Krishna Behera, S. Senthil Kumar, C. Sendil Kumar, M.P. Ambalavanan, V Manoharan and P.Selvakumar	Energy Saving Scheme in Multiple Induction Motor Drive for Coal-Conveyor Applications
37	Bimal Kanta Sethi, S. Revathi and N.Sivakumaran	Artificial Neural Network based Modeling of Superheater Unit for A CFBC Boiler
38	M. Saravanabalaji, N. Sivakumaran and S. Sankamaraynan	Dynamic Compensation of Acoustic Resonance for Water Flow System
39	Abhir Raj Metkar, N Sivakumaran, and Sankara Subramanian	Decision Support System for Energy Conservation in Steel Plant

Paper No.	Authors	Paper Title
41	S. Parthasarathy, E. Jeyasri and S. Manoharan	Design and Implementation of Hybrid Harmonic Filter for a Three Phase Converter Using ARM Processor
42	N. Sekhar, P. Lakshmana Rao, N. Kumaresan and M. P. Selvan	Experimental Investigation on the Operation of Stand-alone Wind-driven DFIG-Solar PV System
44	J. Ganeswara Rao	Moving Average Based Power Swing Blocking for Distance Relay
45	T. Ratna Rahul and P. C. Sekhar	Investigation of Current Reference Schemes for Control of Single Phase Distributed Generator using Model Predictive Control
46	Saurabh Kumar and K. Vijays kumar,	A SEIG based DC Nanogrid Supplying Isolated Residential Loads
47	Sundar Govindasamy and Prabakaran Balakrishnan	Power Quality Control and Intelligent Protection of Grid-Connected Power Electronic Converters