

Selected Technical Papers for Presentation and Springer Publication – India Smart Utility Week (ISUW) 2019

Technical Papers selected for Presentation at ISUW 2019

S.No	Title of Technical Paper	Author Name	Organisation Name
1	Cyber Physical Security of the Critical Infrastructure	Aamir Hussain Khan	Tata Power Delhi Distribution Ltd.
2	First of its kind implementation of IoT System in Indian Power Sector	Akshat Kulkarni	Orxagrid
3	Distributed Optimisation of Standalone PV Components in Microgrid	Alok Kumar	Larsen & Toubro (L&T)
4	Learnings from Wide Area Measurement Systems(WAMS) Project Implementation in India	Amit R. Kulkarni	Mahatransco
5	Forecasting Short Term Peak Loads of Distribution Transformers (DT) Customers Using Machine Learning And Computational Statistics: Various Methodologies and their Pros and Cons	Arghya Roy	India Power Corporation Limited
6	Stop “Rooftop Solar Projects with Net-Metering” switch to “Virtual Rooftop Solar Power Projects”	Dr. Ajay Chandak	IIT Bombay
7	A Methodology to Monitor Hot Spot Temperature and Remaining Life Assessment of Distribution Transformer	Dr. Satish Chetwani	Electrical Research And Development Association
8	Analysis of Impact of EVs Penetration on Indian Distribution Network	Gajendra Malviya	Indian Institute of Technology Bombay
9	Performance Evaluation of Electric Vehicle using Hybrid Energy Storage System	Minal R. Rade	K.K.Wagh Institute of Engineering Education And Research, Nashik
10	Pumped Hydro Storage Technology as Energy Storage and Grid Management Element for Renewable Energy Integration in Karnataka	Nagarjun Y	Karnataka Power Corporation Limited
11	Electric Vehicle Charging Infrastructure for India	NS Sodha	Central Electricity Authority, Gol
12	Role of Power Utility In The Future of E-Mobility in India	Nushreen Ahmed	Tata Power Company Ltd
13	Energy Storage Technologies: Past, Present and Future	Pruthiraj Swain	ABB India Limited
14	Design And Development of PV/FC based Integrated Multilevel Inverter for Smart Grid	P.S.Suvetha	SSN College of Engineering
15	Phasor Measurement Unit (PMU) based Real Time Controlled Islanding for Renewable Integration	Rahul Iyer	Veermata Jijabai Technological Institute (VJTI), Mumbai
16	Flexible Generation & Load for Large Integration of Renewable Generation into the Grid	Rishika Sharan	Central Electricity Authority

17	Impact of Weather on Indian Power System	Shiban Kanti Bala	Odisha Power Transmission Corporation Limited (OPTCL)
18	Planning of Charging Infrastructure for Electric Public Bus Fleets in Indian Cities	Shyamasis Das	Alliance for An Energy Efficient Economy (AEEE)
19	Pan-Asia Grid Interconnection Project (PAGIP)	SK Ray	India Smart Grid Forum
20	Consumer Perspectives on Electric Vehicle Infrastructure in India: Survey Results	Srinivas Cherla	Indian Institute of Management-Ahmedabad, India
21	Digital Disruptions and Trends for a Modern Utility	Sudhanshu Gupta	Ernst & Young LLP
22	Utility Command and Control Centre as a Platform for Utilities Transformation	Sudheer Polavarapu	Fluentgrid Ltd.
23	EVs as Virtual Power Plants	Susheem Pandey	Orion Power Dhaka Limited
24	Smart Street Lighting	Vijay Barve	Tata Consulting Engineers Ltd

Technical Papers Selected for Publication in Springer Journal

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5	Forecasting Short Term Peak Loads of Distribution Transformers (DT) Customers using Machine Learning and Computational Statistics: Various Methodologies and their Pros and Cons	Arghya Roy	India Power Corporation Limited
6	Modular Microgrid Controller on OpenFMB Standard	Bailapudi Mohan Pavan Kumar	Amzur Infotech.
7	Co-Ordination Control of Hybrid AC/DC Micro Grid using High Frequency Transformer	Baskaran K	Alagappa Chettiar Government College of Engineering and Technology, Karaikudi
8	Stop "Rooftop Solar Projects with Net-Metering" switch to "Virtual Rooftop Solar Power Projects"	Dr. Ajay Chandak	IIT Bombay
9	Electric/ H2 Vehicle With Renewable Energy Grid for Himalayan Region	Dr. S. P. Sharma	NTPC Ltd.
10	A Methodology to Monitor Hot Spot Temperature and Remaining Life assessment of Distribution Transformer	Dr. Satish Chetwani	Electrical Research and Development Association

11	Defining Passive to Active Transformation of Electrical Grid	Dr. Viyathukattuva Mohamed Ali Mohamed Mansoor	Karpagam Academy of Higher Education
12	Smart Battery Management System for Enhancing Smart Micro Grid Performance and Energy Management	Dr.Rashi Gupta	Vision Mechatronics Pvt Ltd
13	Digital Twins for Smart Grids	Eilert Bjerkan	Kongsberg Digital
14	Analysis of Impact of EVs Penetration on Indian Distribution Network	Gajendra Malviya	Indian Institute of Technology Bombay
15	Global System of Record and Framework to Preserve Energy Consumption with Blockchain	Gidean Bandaru	Fluentgrid Ltd.
16	Impacts of Electric Vehicle Charger on the Power Grid	Jaya Mane	K.K.W.I.E.E.R, Nashik
17	Payment Settlement Systems for EV Charging	Kaustuv Ghosh	Sendx Pte Ltd(An Ammbitech Group Company)
18	Theft and Fault Identification in Electrical Power Distribution Network with Trustzone Technology	Krunal Patel	System Level Solutions (India) Pvt. Ltd.
19	Unmanned Substation-A Case Study	L N Mishra	Adani Transmission
20	Improving and Benchmarking the Environmental Performance and Efficiency of Power Plants with Peer EE Index	M.S.Keerthana	Green Business Certification Inc.
21	Performance Evaluation of Electric Vehicle using Hybrid Energy Storage System	Minal R. Rade	K.K.Wagh Institute of Engineering Education and Research, Nashik
22	A Proposed System for Electric Vehicle Charging Infrastructure	Moreshwar Salpekar	Boson Motors Pvt Ltd
23	Automating Battery Management System and Billing using Machine Learning	Moreshwar Salpekar	Boson Motors Pvt Ltd
24	Consumer Perspectives on Electric Vehicle Infrastructure In India: Survey Results	Mr. Srinivas Cherla	Indian Institute of Management- Ahmedabad, India
25	Pumped Hydro Storage Technology as Energy Storage and Grid Management Element for Renewable Energy Integration In Karnataka	Nagarjun Y	Karnataka Power Corporation Limited
26	Electric Vehicle Charging Infrastructure for India	NS Sodha	Central Electricity Authority, Gol
27	Role of Power Utility in the Future of E Mobility In India	Nushreen Ahmed	Tata Power Company Ltd
28	Design and Development of PV/FC based Integrated Multilevel Inverter for Smart Grid	P.S.Suvetha	SSN College of Engineering
29	Energy Storage Technologies: Past, Present and Future	Pruthiraj Swain	ABB India Limited
30	Phasor Measurement Unit (PMU) based Real Time Controlled Islanding for Renewable Integration	Rahul Iyer	Veermata Jijabai Technological Institute (VJTI), Mumbai
31	How Smart Water Metering helps reducing Co2 Emissions	René Böringer	Cuculus GmbH
32	Flexible Generation & Load for Large Integration of Renewable Generation into the Grid	Rishika Sharan	Central Electricity Authority
33	3D Zinc Sponge Battery Technology in Mobile and Stationary Energy Storage Applications-	Sauman Das Gupta	Indian School of Innovation In Sustainability (Insist)

	It's advantages when compared with lead acid and lithium-ion		
34	Impact of Weather on Indian Power System	Shiban Kanti Bala	Odisha Power Transmission Corporation Limited (OPTCL)
35	Planning of Charging Infrastructure for Electric Public Bus Fleets In Indian Cities	Shyamasis Das	Alliance for An Energy Efficient Economy (AEEE)
36	Pan-Asia Grid Interconnection Project (PAGIP)	SK Ray	India Smart Grid Forum
37	Inter-Regional Power Trading in Asia (ASEAN-SAARC/BIMSTEC-GCC Regions)	SK Ray	India Smart Grid Forum
38	Digital Disruptions and Trends for a Modern Utility	Sudhanshu Gupta	Ernst & Young LLP
39	Utility Command and Control Centre as a Platform for Utilities Transformation	Sudheer Polavarapu	Fluentgrid Ltd.
40	EVs as Virtual Power Plants	Susheem Pandey	Orion Power Dhaka Limited
41	Smart Street Lighting	Vijay Barve	Tata Consulting Engineers Ltd
42	250 Million Smart Meters in India – Roll-out Strategies and Business Models	Vineeta Gupta	Tata Power Delhi Distribution Ltd.
43	Smart Street Light Controller With Human Security System for Solar Based Street Lights	Vinothkumar.N	Kumaraguru College of Technology