

## ISUW 2022 Technical Paper Selected for Presentation

S. No*	Theme	Title	Name	Organization
1	Foundational Blocks for Smart Grids	Validation of smart metering technology	Rajesh Bansal	BRPL
2	New and Emerging Technologies and Trends	Are Indian homes ready for electric cooking?: Insights from the India Residential Energy Survey (IRES) 2020	Shalu Agrawal	Council on Energy, Environment and Water (CEEW)
3	Disruptive Innovations for Utilities	Peer To Peer Energy Trading using Blockchain-	Lalit Wasan	Tata Power Delhi Distribution Limited
4	Regulations for the Evolving Smart Energy Systems	Aggregated Demand Side Flexibility: A Suitable and Cost-Effective Solution for Stabilizing the Power Grid	Florian Kind	Panitek Power Private Limited
5	Regulations for the Evolving Smart Grids Power Systems	Regulatory intervention on Distribution Reform	Rabindra Nath Sen	
6	Smart Grids for Smart Cities	Data Analytics enabled Inertia Volatility Assessment of Smart Grid in Enhancing Grid Resiliency in Presence of DER	Surekha Deshmukh	IEEE Pune Section
7	Foundational Blocks for Smart Grids	Methodology of smart planning of Distribution transformers with Smart Meters Data	Varun Thakur	Tata Power Delhi Distribution Limited
8	Disruptive Innovations for Utilities	Power Quality Assessment at Customer Level - TATA POWER-DDL	Ritu	TATA POWER - DDL
9	Evolving Architecture of the 21st Century Grid with Two Way Power Flows	An Integrated Approach on Transmission Planning Studies for Bulk RE Evacuation in Indian context	Jay Ojha	Sterlite Power Transmission Ltd.

10	Foundational Blocks for Smart Grids	Implementation of DIGITAL SUBSTATION for Brown Field Project	Loganathan Raman	L&T Construction
			R Suresh	
11	Foundational Blocks for Smart Grids	Implementation of Smart Pillar Box With Digital Communication in LT Distribution System	Nirvik Biswas	CESC LIMITED
12	Foundational Blocks for Smart Grids	Dynamic Notification Process for real-time updation of Consumer with Network using advanced integrated digital platforms	Nishant Singh	Tata Power Delhi Distribution Limited
13	Foundational Blocks for Smart Grids	Digitalization of Power Transformer Monitoring System	Mousam Dutta	CESC LIMITED
14	Foundational Blocks for Smart Grids	IElectrix Project – Installation and commissioning of the Indian demonstration in Delhi	François Cazals	Schneider Electric
15	Smart Grids for Smart Cities	Accelerating wind power deployment in India through decentralised plants	Ashwani Arora	Council on Energy, Environment and Water (CEEW)
16	New and Emerging Technologies and Trends	Combustion Modification-Implementation Challenges & Impact on Boiler performance wrt Indian Context	Kumar Skandh	NTPC Ltd.
17	Disruptive Innovations for Utilities	Envisioning Smart Utility through Field Force Automation (FFA)	Nishant Singh	Tata Power Delhi Distribution Limited
18	Disruptive Innovations for Utilities	Augmented reality and other Digital Transformation and their applications in Power Transmission	Robin Giri	The Tata Power Company Ltd.
19	Disruptive Innovations for Utilities	Grid interactive affordable housing - a grid-management opportunity for distribution licensees in India	Mahesh Patankar	MP Ensystems

20	Smart Grids for Smart Cities	Unified Regulatory Management for Utilities in Smart City : Common Utility Alliance	Krishna Porwal	TATA Power DDL
21	Disruptive Innovations for Utilities	RPA empowered Self-functioning Utility Processes ecosystem	Amberish Amolraj Gaekwad	Tata Power Company Ltd.
			Laxmi Patel	
22	Disruptive Innovations for Utilities	Introduction of Tower Mounted Substation	Swapnil Rao	TATA POWER
23	Evolving Architecture of the 21st Century Grid with Two Way Power Flows	Planning towards enhanced Grid Discipline and Grid Reliability in the power system operations in South Asian Region	Mohnish	IRADe
24	Foundational Blocks for Smart Grids	Flexibility in Power System	M L Sachdeva	Central Electricity Authority (CEA)
25	Disruptive Innovations for Utilities	Importance of digital energy database and expert system to promote excellence in the operations of the power utilities in different countries in South Asia	Vinod Kumar Agrawal	Integrated Research and Action for Development

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25	Disruptive Innovations for Utilities	Importance of digital energy database and expert system to promote excellence in the operations of the power utilities in different countries in South Asia	Vinod Kumar Agrawal	Integrated Research and Action for Development
26	New and Emerging Technologies and Trends	Cooling Systems Design to combat ODP & GWP in LVDC paradigm	Srinivasa Murthy Lolla	BIO ELECTRICAL & ENERGY SYSTEMS
27	Smart Water	Smart Solutions for Water Production, Transmission and Distribution in India	Amit Sharma	Ernst & Young LLP

28	Smart City Gas Distribution	Customer Complaints- A gift for the organization & a Key to increase the penetration of PNG in domestic house holds in India	Manish Mishra	Indian Oil Adani Gas Pvt. Limited
29	Smart Water	An IOT and Machine Learning Based Smart Water Supply System That Can Detect Supply Conditions Including Leakages in Underground Pipe	Moreshwar Salpekar	Sevya Multimedia Technologies Pvt. Ltd
30	Smart Water	Integrated Monitoring to Address India's Urban Water Crisis	Arushi Maheshwari	PricewaterhouseCoopers Ltd
			Arshita Sharma	
31	Smart City Gas Distribution	AI Enabled Gas Management Solution	Hiral Dedhia	Accenture Pvt. Ltd.
32	New and Emerging Technologies and Trends	Webchat Integrated with live chat Option	Dharmendra Yadav	The Tata Power Company Limited
33	Disruptive Innovations for Utilities	Understanding the Digital Consumers for better Service Delivery	Tania Sikdar	CESC Limited
34	Smart Grids for Smart Cities	IMPACT OF DISTRIBUTED RENEWABLE GENERATION AND STORAGE ON TRANSMISSION AND DISTRIBUTION EQUIPMENT	Abhishek Vashistha	BSES Yamuna Power Ltd
35	Smart Grids for Smart Cities	Survey and Impact analysis on Electric Utilities, by Energy saving, Monitoring and Management using IOT and Active Sensors.	Kalindi Singh	Vellore Institute of Technology, Vellore
36	Smart Grids for Smart Cities	Leap towards i4.0 – Digital Twin for Electrical Network	Lalit Kumar Wasan	TATA Power Delhi Distribution Limited
37	New and Emerging Technologies and Trends	Techno-Economic Analysis of Green Hydrogen Production and Storage from Tamil Nadu's spilled Wind Power	Sripathi Anirudh R	WRI India

38	Smart Grids for Smart Cities	Digital Twin for Smart Grids: A Practical and Cost-Effective Technology for Resilient and Sustainable Power Distribution	Payal Gupta	Panitek Power Private Limited
39	Foundational Blocks for Smart Grids	Smart Grid Reliability enhancement through FMECA and Quality Assurance plan	Ankit Kumar	TATA POWER DELHI DISTRIBUTION LIMITED
40	Foundational Blocks for Smart Grids	Smart LT Network Management: Introduction of RF Mesh WAN Based Feeder Pillar Monitoring System	Vikas Koul	Tata Power
41	Smart Grids for Smart Cities	Beat Billing and Consumer Indexing for Smart Cities	Ram Avtar	Madhyanchal Vidhut Vitaran Nigam Ltd (MNVNL)
42	New and Emerging Technologies and Trends	Condition Monitoring of Surge Arresters Based on Third-Harmonic Analysis of Leakage Current and Ratio method	Muhammed Noufal T	TATA Power-DDL
43	Disruptive Innovations for Utilities	Making of a digital rural consumer in Indian power utilities	Tanmoy Mitra	TP Southern Odisha Distribution Limited
44	Cyber Security for the Digitalized Grids	Cyber War Preparedness	Aamir Hussain Khan	Tata Power Delhi Distribution Ltd.
45	Cyber Security for the Digitalized Grids	Digitized grid OT Cyber Security and network behavior monitoring	Amit Mazumdar	TATA Power DDL
46	Disruptive Innovations for Utilities	AI-POWERED CUSTOMER SEGMENTATION FOR UTILITIES: CONGREGATION OF CUSTOMERS THROUGH THEIR HOLISTIC PROFILES	Nisha Agarwal	Bidgely Technologies Pvt. Ltd.
47	New and Emerging Technologies and Trends	Integration of Renewable Energy - planning of flexibility in sustainable power systems	D V Rajan	Damodar Valley Corporation
48	Disruptive Innovations for Utilities	Life Extension and Health Monitoring of IED Power Pack units in grid substations	Deepak Arora	TATA Power-DDL



49	Cyber Security for the Digitalized Grids	Utility Secure Grid Communication	Tanmay Dalal	Accenture
50	Disruptive Innovations for Utilities	Utilities Renewable Journey with Prosumer at the Center	Anindya Pradhan	TATA Consultancy Services
51	Disruptive Innovations for Utilities	Short Term Load Forecasting for Dynamic Clusters using Deep Learning	Mayank Sharan	Bidgely Technologies Pvt. Ltd.
52	Electric Mobility	Promising Business Models for EV Charging Stations	Kshama Joshi	Accenture pvt. Ltd.
53	Smart Grids for Smart Cities	Analysis of distributed generation connected to distribution network	Kedar Dipak Mehari	KEC International Ltd
54	Cyber Security for the Digitalized Grids	Regulatory Framework for Making India's Advanced Metering Infrastructure Secure	Dhruvak Aggarwal	Council on Energy, Environment and Water (CEEW)
55	Smart Grids for Smart Cities	Smart Grids as anchor infrastructure for Smart Cities	Gagandeep Kaur	Tata Power Delhi
56	Disruptive Innovations for Utilities	Asset Management in Indian Power Sector using Drones & Artificial Intelligence.	N S Sodha	Power Grid Corporation of India Limited, Gurgaon
57	Electric Mobility	Electric Vehicles as Virtual Power Plants	Vinit Mishra	Ernst & Young LLP