

UI-ASSIST WEBINAR: DER Integrated Smart Distribution Systems: Few Field Implementations in India under UI-ASSIST Project

Thursday, May 25, 9:00 am PT (9:30 pm IST)



U.S. INDIA COLLABORATIVE FOR SMART DISTRIBUTION SYSTEM WITH STORAGE



Presenters: Ankush Sharma and Suresh Chandra Srivastava (IITK)

Increased use of converter interfaced Distributed Energy Resources offers new opportunities and challenges in the power system networks. Microgrids integrating Renewable Energy Sources (RES) and Energy Storage Systems (ESS) are being increasingly deployed not only to provide clean energy access to remote communities and strategic/building complexes, but also to increase resiliency and reliability of supply, provide flexibility and back up power to the main network while helping in addressing the global environmental concerns. Operation of Smart Distribution Systems integrating microgrids, renewable sources and storage require proper control and protection systems to be designed. Advance Distribution Management Systems (ADMS) are required to ensure optimal power sharing, storage management, maintaining required power quality and stability of supply.

The main focus of an ongoing Indo-US joint project 'UI-ASSIST', involving 31 consortia partners from US and India, is to evolve model for future smart distribution networks integrating RES, ESS and microgrids. Both India and US teams are also setting up field demonstration pilots, five in each country, containing microgrids under rural, semi-urban and urban settings. This talk will briefly discuss the technical details and challenges faced in developing Smart Distribution Systems and will share experiences in setting up one rural pilot in a village of Kanpur district, an urban as well as a suburban pilot inside IIT Kanpur campus in India by the UI-ASSIST team.

Please join our monthly UI-ASSIST webinar on **May 25th, 9am – 10 am PST.**

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Ankush Sharma is currently working as associate professor in the department of electrical engineering at IIT Kanpur. Prior to joining the IIT Kanpur, he was working as assistant professor in the school of electrical sciences at IIT Bhubaneswar. In addition to academic experience of around 6 years, he has close to 16 years of industry experience, primarily in the Power system and smart grid domain. He holds Ph.D. and M. Tech. degrees in Electrical Engineering from IIT Kanpur and B. Tech. degree in Electrical Engineering from HBTI Kanpur. He is also a certified Project Management professional (PMP®) from Project Management Institute (PMI), USA and holds MBA degree in Finance. He has received various awards in his academic and professional career, including POSOCO Power System Award (PPSA) in 2015 for one of the best PhD thesis works. He has also received various appreciations and accolades during his professional and academic tenure. He is a senior member of IEEE.



Suresh Chandra Srivastava received B Tech and Ph.D. in Electrical Engineering, respectively from IT BHU, Varanasi and IIT Delhi, India. He has been Professor with the Department of Electrical Engineering, IIT Kanpur, till 2020, and currently continuing as Director IIT Kanpur-LaTrobe University Research Academy and Distinguished Visiting Professor. He also served as Head of Electrical Engineering Department, Dean R&D, and Deputy Director at IIT Kanpur. During August 2008-July 2009, he was a 'Visiting Research Professor' in the ECE Department at Mississippi State University, USA, Visiting Faculty at AIT Bangkok during 1996-97, and Visiting Professor at University of Western Ontario during Summer 2005. He held 'P.K. Kelkar' and 'Ministry of Labour and Employment Chair Professor positions at IIT Kanpur. He has served in the governing council and expert committee of several government organizations and utilities in India. His research interests include Power System Stability and Security Analysis, Synchrophasor Applications, Power System Restructuring and AC/DC Microgrids, and Smart Grids. He Has been PI/co-PI to about 24 sponsored research and consultancy projects, and has been leading an Indo US project 'UI- ASSIST' on Smart Grid and Storage, from India. He is Fellow of the Institute of Electrical and Electronics Engineers (IEEE), Indian National Academy of Engineering, Institution of Engineers (India), Institution of Electronics and Telecommunication Engineers, and Indian Academy of Mathematical Modelling and Simulation (IAMMS).