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4th IEEE PES Day Webinar Series

23RD April 2021 | 7:00PM – 8:00PM (GMT+8)

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How to Design the Next-Generation Smart Cities: Role of Sensors, Smart Meters, and Simulations

Presenter Dr. Sayonsom Chanda
CEO
Sync Energy AI, USA
VP IEEE Young Professional Society

Title: "How to design the Next-Generation Smart Cities: Role of Sensors, Smart Meters, and Simulations"

Abstract: Smart Cities have been on the rise since the early 2000s. Information networks have interconnected assets and infrastructure across Smart Cities, such as Singapore. Today, the applications of smart city technologies are focused on energy-use management and decongesting traffic flow in arterial roads to the town. However, in the era of rapid climate change, the smart cities need to extend to people's lives deeper and solve more significant existential challenges - like deep decarbonization, enhancing economic, and energy resilience of the city residents. Thus, the next generation of smart cities would require understanding human needs better and be aware of several extreme operating scenarios. The future smart cities will be designed based upon thorough, rigorous simulations of digital twins of the networks and the smart-meter-based customer representations. In this talk, Dr. Chanda will emphasize the role of sensors, smart meters, and simulations to de-risk climate change, and develop the next generation of smart city critical infrastructure - where every human has equitable access to clean and sustainable energy, resilience, and personalized alerts about unavoidable extreme events.

Speaker: Dr Sayonsom Chanda

Short Bio: Sayonsom is a product designer and tech evangelist for grid modernization, digital transformation in electric utilities, and citizen science. He is currently serving as the CEO of Sync Energy, a Techstars-backed company, developing next-generation disaster prediction and resilience analytics platforms for utilities and other critical infrastructure networks. He has received his Masters and Ph.D. degree in Electrical Engineering from Washington State University. Prior to his entrepreneurial journey, Dr. Chanda has been a senior analyst at National Grid and a research engineer at Idaho National Laboratories. He has served as the VP of IEEE Young Professional Society. He has published 15 papers in high-impact journals, and secured two US patents related to smart grid simulations and analytics. He is the author-cum-editor of a forthcoming book "Resilience of Power Distribution Systems" to be published by Wiley in 2021.

Time: April 23, 2021 07:00 PM to 08:00 PM Singapore

Join Zoom Meeting: https://newcastleuniversity.zoom.us/j/86152669099

Meeting ID: 861 5266 9099 **Passcode**: 142980

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