



IEEE Miami Section Seminar Announcement

"Emerging Technologies in Distribution System Operations: The Role of Smart Inverter Functionalities"

Friday, April 19, 2024 | 1:00 PM EST
Zoom - Meeting ID: 845 3493 3396 | Passcode: bfMmW6



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Summary: Increasing global apprehensions regarding climate change are propelling efforts on a global scale to reduce carbon emissions within energy systems. The management of distribution network assets is, thus, undergoing transformation due to the integration of distributed energy resources (DER) and the ongoing efforts to modernize the grid with clean technologies. As the grid undergoes modernization, it is crucial that both the existing infrastructure and new technologies work together in a coordinated manner. This webinar focuses on smart inverters, emerging technologies that address the challenges associated with DER-rich distribution networks. These inverters play a vital role in enabling the seamless integration of DER into the grid, ensuring optimal performance and stability. Additionally, the webinar will delve into the IEEE-1547 standard, which has been widely embraced as the national foundation for DER interconnection with electric power systems. This standard provides guidelines for the interconnection and interoperability of DER with the grid, ensuring safe and reliable operation. Understanding the IEEE-1547 standard is essential for utilities, DER developers, and other stakeholders involved in the integration of DER into the grid

Speaker Bio: A clean energy enthusiast, Dr. Adedoyin Inaolaji is passionate about proffering solutions to the challenges associated with the integration of renewable energy technologies into the electric power grid. Dr. Inaolaji is an Assistant Professor in the Department of Electrical Engineering at State University of New York at Buffalo. She was born in Nigeria, where she received a B.Eng. in Electrical and Electronics Engineering from Covenant University. She has MS and Ph.D. degrees in Electrical Engineering from Florida International University. Her research interests include modeling, analysis, and optimization of the power grid with high penetration of renewable energy resources.

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