

Next Generation Network (NGN) Webinars



Technologies to Enable Distributed Energy Resources at the Grid Edge

Summary

The electric grid is transforming at an unprecedented rate, aided by favorable regulations and a need for reliability, resilience, and sustainability. A majority of this transformation is occurring at the very edge of the grid, where distributed energy resources (DERs) like electric vehicles (EVs), photovoltaic (PV) roofs, and battery energy storage systems (BESS) are growing. At the same time, end users are frequently affected by public safety power shutoffs from wildfires or loss of supply to the grid from hurricanes. The requirement for tapping DERs to provide resilience to the larger grid is never been more urgent. The challenge is to do so efficiently, intelligently, sustainably, and economically. In this talk, we will discuss some of the pathbreaking technologies being developed by Eaton Research Labs for unlocking the full potential of DERs for the energy transition taking place worldwide.

Please join CIGRE US-NGN in their next professional development webinar in July. Our guest speaker, Dr. Calvin Zhang will talk about technologies to enable DERs at the grid edge. This talk will discuss some of the pathbreaking technologies being developed by Eaton Research Labs for unlocking the full potential of DERs for the energy transition taking place worldwide.

Speaker

Liuxi (Calvin) Zhang, Ph.D., is Global Technology Director in Eaton Corporation, leading Eaton's global Energy Systems Research organization.

Calvin is responsible for leading a global team of scientists and engineers and providing strategic direction in the field of Energy Systems Management (including Renewable and DER integration, Microgrid, Grid and Cyber Resiliency, as well as Transportation Electrification). In this role, Calvin manages strategic relationships with external customers, internal and external ecosystems to develop and implement technology and commercial strategies, and translate them into solutions across various applications and markets.

Prior to joining Eaton, Calvin was with Commonwealth Edison Company (ComEd)/Exelon, as Senior Manager of Distribution Engineering, and Senior Manager of Smart Grid and Innovation, leading teams to develop smart grid strategy and roadmap, identify and evaluate emerging technologies, and manage demonstration projects. It includes several DOE funded projects, such as Bronzeville Community Microgrid. Prior to ComEd, Calvin worked with Nexant Inc. as Senior Distribution Systems Engineer, leading research, software development and product management for ADMS/DERMS applications.

Calvin was awarded his Ph.D. in Electrical Engineering from Northeastern University, USA. Calvin is IEEE Senior Member. He is currently IEEE PES Governing Board member. He also serves IEEE PES Long Range Planning Committee (LRP). He was the Co-Chair for the 2023 IEEE PES Grid Edge Technologies Conference and Exposition.

Links & Information

Wednesday, April 17, 2024
12 pm CDT | 1 pm EDT

Duration: 1 hour

[Register Here](#)



Dr. Calvin Zhang

Eaton Corporation
*Global Technology
Director*