

UI-ASSIST WEBINAR: A Status Update of HNEI's Research to Support Hawaii Renewable Energy Integration



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



This webinar will begin by covering the Hawaii perspective, status, and progress on renewable energy integration, especially as a case study on the challenges of islanded grid operation with high penetration of variable renewable energy (VRE) and inverter-based resources (IBRs). Dr. Kevin Davies will discuss key projects that the Hawaii Natural Energy Institute (HNEI), an organized research unit at the University of Hawai'i at Mānoa, has contributed to across the islands in recent years, leading into the role of HNEI in the UI-ASSIST program. Dr. Dax Matthews will provide an update to the status of the HNEI operational solar forecasting system and briefly discuss the application of machine learning in solar forecasting. Dr. Yan Chen will introduce HNEI's Advanced Power Systems Lab and present recent work to adapt and utilize a detailed residential distribution feeder model to analyze distribution system operation with high penetration of rooftop PV, including real-time simulation for hardware-in-the-loop (HIL) testing. The webinar will conclude with future research directions and opportunities for collaboration within UI-ASSIST and beyond.

Join us at 9:00 AM Pacific/9:30 PM India time on April 22nd, 2021 on Microsoft Teams.

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Kevin Davies



Dax Matthews



Yan Chen

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