

UI-ASSIST WEBINAR: TAMU/IITBBS Student Internship Research

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



The increasing penetration of distributed generation (DG) in radial distribution networks has a direct impact on the network reliability, protection, and stability of the electrical grid. Traditional protection schemes are no longer effective, and new methods require extensive investigation as more DGs are introduced into the network. Once a DG is connected to the distribution network, protection relays experience changes in the fault current response and relay tripping decisions rules could be violated and prevent the system from reacting towards all types of faults while threatening the health of the grid. The existing overcurrent protection is jeopardized and safety of the network could not be guaranteed until related issues are properly addressed. This research work presents an approach to solve this problem and restore the overcurrent relay performance while different types of DG and loads are introduced into the grid.

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UPCOMING WEBINARS (9am PST): October 28th

