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Columbus, Ohio

Date: Friday, Feb. 04, 2022

Time: 1 - 1:50 pm

Location: L2 D2

Zoom Meeting ID: 970 7656 5407

Password: 477211

A Dynamic-Programming Approach to Assessing the Resource-Adequacy Contribution of Energy Storage

Abstract: Energy storage is being viewed increasingly as a resource that can contribute to power-system reliability and resource adequacy. However, most markets and system planners employ ad hoc approaches to ascribing capacity value to energy storage. This talk presents a dynamic-programming-based approach to conduct these assessments for energy storage. Illustrative case studies show how market-design choices impact the use and operation of energy storage and its reliability contribution.

Biography: Ramteen is a professor in Department of Integrated Systems Engineering and Department of Electrical and Computer Engineering, founding director of the EmPOWERment National Science Foundation (NSF) Research Traineeship (NRT) program, and an associate fellow in Center for Automotive Research at The Ohio State University. His research focuses on the integration of advanced energy technologies, including renewables, energy storage, and electric transportation, into energy systems. He works also in energy policy and electricity-market design, especially as they pertain to advanced energy technologies. He is an IEEE Fellow and served three two-year terms on Electricity Advisory Committee, a federal advisory committee to the U.S. energy secretary, and chaired its Energy Storage (Technologies) Subcommittee.