



SMART GRID CENTER
TEXAS A&M ENGINEERING EXPERIMENT STATION

SGC WEBINAR

Electric Grid Operations Visual Storytelling: Past, Present, and Future

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Register at https://tamu.zoom.us/webinar/register/WN_NFvI7x7FQOa7jthN7UG0Ig

Abstract:

Large-scale electric grids are some of the largest and most complex machines every created, and an ongoing engineering challenge is to analyze, understand, and explain their operation to a variety of different audiences. This requires leveraging the most effective techniques, and throughout history storytelling has proven to be an extremely effective means for conveying information. While the term storytelling often invokes its colloquial meaning of orally communicating a story, more broadly it is defined to encompass a variety of different means of presentation, including the video visualization approach considered here. This presentation shows how power system visualizations can be knitted together to develop an understandable narrative, with a focus on electric grid operations over time periods ranging from seconds to days. The presentation provides examples of storytelling applied to past electric grid operations, present operations, and potential future operational scenarios.

Speaker:



Thomas J. Overbye is a Professor and holder of the O'Donnell Foundation Chair III in the Department of Electrical and Computer Engineering at Texas A&M University (TAMU). Prior to joining TAMU he was a Professor at the University of Illinois at Urbana-Champaign. He received his BS, MS, and Ph.D. degrees in Electrical Engineering from the University of Wisconsin-Madison. Before starting his academic career he was employed with Madison Gas and Electric Company. He is the original developer of PowerWorld Simulator, a co-founder of PowerWorld Corporation, an author of a widely used Power System Analysis and Design book, and is a member of the US National Academy of Engineering.