Zero Marginal Cost Power Grid

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REFRESHMENTS SERVED AT 3:30 PM

The talk will focus on research at Florida/Inria on harnessing flexible loads to create virtual storage. The goal is to address volatility from high penetration of renewable energy from the wind and sun. It is argued that these resources come at essentially zero marginal cost, which is a major barrier to innovation. Solutions to this dilemma will be proposed; it is hoped that this will lead to constructive debate—especially in view of New York’s vision of the future power grid. (This research is based on joint research with Profs. Ana Busic and Prabir Barooah.)

Sean Meyn is Professor and Robert C. Pittman Eminent Scholar Chair in the Department of Electrical and Computer Engineering at the University of Florida, Director of the Laboratory for Cognition & Control, and Director of the Florida Institute for Sustainable Energy. His academic research interests include stochastic processes, optimization, and information theory. For the past ten years his applied research has focused on engineering, markets, and policy in energy markets.