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Strategic Planning for Microgrids-Strategies and Tools

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Abstract

Planning the distribution systems strategically will lay a solid corner stone for a Smarter future.

When the integration of distributed energy resources increases, more and more distribution power systems may be capable of operating as a microgrid, with the ability to operate in parallel with the grid or as an island. The challenges that utility planning engineers are facing are like never before. Recent major storms in the US blacking out some of the biggest cities in the world are forcing government agencies and utilities to increase reliability and reduce peak demand at the same time. Opportunities to electrify rural communities via microgrids are gaining significant interest. Before the detailed engineering design of any microgrid, a power system and economic planning study should be performed to determine the optimal techno economical specifications, i.e. location, type and size of devices, optimal operation methodologies, compliance with standards and regulatory agencies, and cost/benefit analysis etc.

In this webinar we will be presenting such planning methods developed and implemented by Siemens PTI.

Who Should Attend
Utility planning engineers, Consultants, Researchers

Presenter Bios

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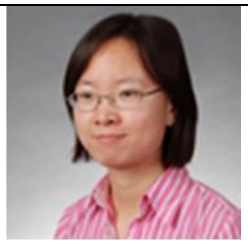 Bo Yang Staff Consultant	**Dr. Bo Yang** received her PhD in Electrical Engineering from Arizona State University, Tempe, Arizona in 2007. She is proficient in distribution planning, automation, power quality, reliability and protection coordination. Dr. Yang has managed a wide breadth of projects: Smart Grid technologies/applications, energy efficiency, volt/var optimization, utility PV interconnection, new load impacts, dynamic modeling development/validation, islanding studies. She worked with power companies, system operators, equipment vendors as well as research institutes. e-mail: yang_bo@siemens.com
 David Lovelady Senior Consultant	**David Lovelady** comes from a practical industrial electrical engineering background and joined Siemens T&D business in Manchester, UK following completion of a Bachelors Degree with Honors from the University of Manchester in 2007. He joined Siemens PTI in New York in 2009, participating in multiple steady state and transient stability studies, for independent system operators in New England and New York and for transmission developers. David has been researching the potential impacts of the Smart Grid on the distribution system: in automation, energy storage, distributed generation, demand response, MicroGrids, economics and the optimization of the distribution network. e-mail: david.lovelady@siemens.com