

Can you suggest some research topics in Distribution Simulation?

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Key Modeling Capabilities Needed for Distribution System Analysis of the Smart Grid

The IEEE Distribution System Analysis Subcommittee has identified the following modeling capabilities that will be needed to support distribution system simulation for the Smart Grid of the future. These, in general, would make good research topics.

- Distributed generation modeling
- Hosting capacity for PV and other DG
- Modeling inverters for planning purposes
- Time series simulations
- Efficiency studies
- Meshed networks
- Large systems
- Parallel computing
- Distribution state estimation
- Protective relay simulation
- AMI Load data
- Modeling controllers
- Modeling communications
- Work flow integration
- Co-simulation of power and communications networks
- Microgrids
- Protection of the integrated grid

--Rdugan 17:38, 7 October 2010 (UTC)

--127.0.0.1 19:25, 30 January 2015 (PST)

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