

One-page expertise description

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Type of partner	University

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Position	Assistant Professor, GDF Suez Chair in Energy Economics

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Topic(s) of interest:

LCE-6-2014: Transmission grid and wholesale market

Headline:

Electricity markets, electric power systems planning and operations, optimization.

Potential contribution:

- Record of publications on power system operations with transmission network constraints and demand response in distribution level in Operations Research and IEEE Transactions on Power Systems
- Privileged access (because of endowed academic chair, GDF Suez Chair) to European energy market data, available from GDF Suez.
- Strong connections with demand response providers (Better Place), energy companies (GDF Suez), system operators, industry R&D groups
- Partnership with University of California at Berkeley and Lawrence Livermore National Laboratory (LLNL) for solving state-of-the-art stochastic optimization models for energy with specific focus in smart grids and renewable energy integration.
- Privileged access (because of collaboration with LLNL) to HPC resources of Sequoia (3rd largest computer in TOP500) with unlimited IBM CPLEX licenses for simulation and analysis of demand response under renewable energy integration.
- Multidisciplinary background in power systems engineering, power system economics and optimization.