

# One-page expertise description

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Position	Assistant Professor, GDF Suez Chair in Energy Economics

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## Topic(s) of interest:

LCE-21-2014: Modelling and analysing the energy system, its transformation and impacts

## Headline:

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

## Potential contribution:

- Expertise in economic modelling of energy markets, close interaction with domain experts (Professors Yves Smeers, Shmuel Oren).
- Multidisciplinary background in power systems engineering, power system economics and optimization.
- Privileged access (because of endowed academic chair, GDF Suez Chair) to European energy market data, available from GDF Suez.
- Prior consulting collaboration with Pacific Gas and Electric and GDF Suez has offered expertise on highly detailed models of combined cycle units.
- Strong connections with energy companies (GDF Suez), system operators, industry R&D groups, US academia and research centers
- 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 (3<sup>rd</sup> largest computer in TOP500) with unlimited IBM CPLEX licenses for simulation and analysis of demand response under renewable energy integration.