



CEEM PH.D. CONFERENCE

KEY ISSUES FOR ELECTRICITY MARKET DESIGN

CEEM Ph.D. Conference

4 April 2024 – 9:00^{am} - 18:00^{pm}

*Room Raymond Aron - Université Paris Dauphine-PSL
Chair European Electricity Markets (CEEM)*

Introduction

The Chair European Electricity Markets (CEEM) of Paris Dauphine is pleased to announce the 2st CEEM Ph.D. Conference on Economics of Electricity Markets. The conference is targeted at Ph.D. students from European Universities whose primary research is the Electricity Sector.

Over 2023 and 2024 the CEEM has launched a new research program on new market models that can address the different policy objectives of supporting investment for decarbonization, whilst ensuring security of supply and maintaining affordable costs for vulnerable consumers.

The conference aims to offer an opportunity for PhD students to present their work to experts and academics in the energy sector.

The conference will aim to foster debates around, but not limited to, the following topics: (i) The impact of rising shares of renewables on electricity markets; (ii) Issues associated with the development of decentralized resources, including storage and self-generation (iii) Pricing issues for end users.



CONFERENCE PROGRAM

09h00 Welcome Coffee

09h15 Welcome and introduction to the conference Fabien Roques | CEEM Scientific Director

SESSION I - RENEWABLES

09h30 Understanding the behaviour of renewables under long term contracts – the case for power system management Kevin Favre | RTE, Paris Dauphine University

10h15 The impact of auction quantity on the outcomes in a multi-unit procurement auction for RES with bid-preparation costs Hengrina Ly | Université Rouen Normandie

11h00 Coffee break

SESSION II - STORAGE

11h15 Tariff designs for storage investment decisions Lere Deguenon | Zurich University of Applied Sciences

12h00 Optimal control of storage and short-term price formation in electricity markets Redouane Silvente | CREST

12h45 Lunch

SESSION III - FLEXIBILITY

13h45 Welfare redistribution through flexibility - Who pays? Polina Emelianova | University of Cologne

14h30 Energy Autonomy in Local Flexibility: Taxonomy, Design, and Evaluation Mehdi Foroughi | University of Oslo

15h15 Coffee break

SESSION IV - MARKET MODELING

15h30 A mean-field game model of electricity market dynamics Alicia Bassière | CREST

16h15 Dealing with renewables integration in the European balancing phase: A comparative study of the Belgian and French imbalance markets Mathieu Richard | Paris Dauphine University

SESSION V - Concluding roundtable

17h15 Interventions of the CEEM partners Jan Horst Keppler | CEEM
EDF, EPEX SPOT, RTE, TotalEnergies

18h00 Cocktail

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