

## Chair the Economics of Gas 2025 Second Paris Workshop

# Gas Markets in Transition: New Challenges, New Research

**September 26, 2025**

**Paris**

**Ecole des Mines (Université PSL)**  
60 bd Saint Michel, Paris

### SCOPE

Natural gas remains a key component of the global energy mix, but its role is undergoing profound transformation. The global energy crisis triggered by Russia's invasion of Ukraine highlighted the geopolitical vulnerabilities of gas supply chains and reshaped international trade flows. At the same time, the imperative to decarbonize energy systems in the EU has intensified scrutiny of gas's long-term place in a net-zero world. Gas and power economies are more and more intertwined. This evolving landscape is forcing firms, policymakers and regulators to grapple with complex trade-offs between energy security, affordability, and climate goals.

This workshop aims to take stock of these developments and to provide a discussion for future research. Four main topics will be addressed:

- (i) The Modelling of Energy Systems
- (ii) Innovation in Energy Transition
- (iii) The Energy Climate Nexus
- (iv) The EU policy and Regulation

## PROGRAM

### Thursday 25 September

Event Diner at Paris (location to be confirmed)

### Friday 26 September

**9.00-9:05 Welcoming address by François Lévêque (Mines Paris)**

**9:05-10:35** The Modelling of Energy Systems

**Chair: Sophie Chevalier** (TotalEnergies)

- Keynote: Franziska Holz (DIW Berlin) Modelling the economics of pricing methane leakage of gas trade (20 minutes)
- Modelling the electricity system:
  - Ange Blanchard (Centrale Supélec): The provision of flexibility (15 minutes)
  - Julien Ancel (Centrale Supélec) : Demand response (15 minutes)
- General discussion, in particular on the needs for new research on natural gas markets (40 minutes)

**10:35-11:00**

**Coffee Break**

**11:00-12:30** Innovation in energy transition

**Chair: Fabrice Noilhan** (EDF)

- Keynote : Anne Neumann (NTNU) (20 minutes)
- Innovation cases
  - Lucas Barner (DIW Berlin & TU Berlin): H<sub>2</sub> trade modeling (15 minutes)
  - François Lévêque (Mines Paris PSL): Small Modular Reactors and Advanced Modular Reactors – The interplay of new nuclear and new gas power (15 minutes)
- General discussion, in particular on the needs for new technologies and research on them (40 minutes)

**12:30-13:30**

**Lunch**

**13:30-15:00** The Energy Climate Nexus

Chair : Anne Neumann (NTNU)

- Keynote by Anna Creti (Dauphine University) (20 minutes)
- Cases
  - Renaud Coulomb (Mines Paris PSL): Oil Exploration (15 minutes)
  - Olivier Massol (Centrale Supélec): Biogas (15 minutes)
- General discussion, in particular on the needs for new research on the interrelation of climate policies and gas markets (40 minutes)

**15:30-15:45**

**Coffee Break**

**15:45-17:00** Roundtable: The European energy policy and regulation in a new world

Chair: **François Lévêque** (Mines Paris PSL)

- Olivier Massol
- Sophie Chevalier (TotalEnergies)
- Fabrice Noilhan (EDF)
- Franziska Holz (DIW Berlin)

**17:00-17:10** Concluding remarks