


Online Training Course

Summer School on Energy Systems: Sector Coupling and Energy Modelling

 @FSR_Energy #EnergySystemsSchool

21-24 September 2020

Online Training

Course Directors:

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Introduction

The Florence School of Regulation and the Fraunhofer Cluster of Excellence “Integrated Energy Systems” are organising the 1st edition of the Summer School on Energy Systems. This year, the training will be held online through live sessions hosted on Zoom, and will focus on sector coupling and energy modelling.

The Summer School on Energy Systems will focus on the economic, policy and regulatory aspects of sector coupling in the European Union and the possible ways to model and investigate them quantitatively. In the first part of the course, participants will gather a general overview of European energy policy and the importance of coupling different energy end-uses and vectors to achieve the energy transition. Given their central role in the current debate and business developments, the organisation of the electricity and gas markets, the regulation of the related networks, and their interplay will be presented. In the second part of the course, participants will explore a few quantitative studies and modelling exercises that shed some light on the problems and issues identified in the first part. They will also have the opportunity to present their current research on the topics and receive accurate feedback from peers and the course faculty.

Draft Programme

21 September

- 9.15 - 9.30 Welcome address and introduction to the Summer School
- Mario Ragwitz** | Fraunhofer Cluster of Excellence – Integrated Energy Systems
- Nicolò Rossetto** | Florence School of Regulation, RSCAS, EUI
- 9.30 - 11.00 Introduction to EU energy and climate policy and the new strategy on smart sector integration and hydrogen
- Andris Piebalgs** | Florence School of Regulation, RSCAS, EUI
- Zsuzsanna Szeles** | European Commission
- 11.00 - 11.30 *Coffee break*
- 11.30 - 13.00 Introduction to energy markets design in the EU
- Sergio Ascari** | Florence School of Regulation, RSCAS, EUI
- Tim Schittekatte** | Florence School of Regulation, RSCAS, EUI

22 September

- 9.30 - 11.00 Interactions between the electricity and gas industry: from CCGT to renewable gases
- Julian Barquin** | ENEL
- Ilaria Conti** | Florence School of Regulation, RSCAS, EUI
- 11.00 - 11.30 *Coffee break*
- 11.30 - 13.00 Energy regulation in the age of the 3 Ds and sector integration
- Tom Maes** | ACER Gas Working Group
- Jorge Vasconcelos TBC** | NEWES

23 September

- 9.30 - 10.30 Smart sector integration from 2020 until 2040: which assets are needed for electricity system management? *Case study on Italy*
- Fabio Genoese** | Terna
- 10.30 - 11.00 *Coffee break*
- 11.00 - 13.00 Energy systems modelling
- Benjamin Pfluger** | Fraunhofer IEG
- Charlotte Senkpiel** | Fraunhofer ISE

24 September

9.30 - 11.00 Students' presentations

11.00 - 11.30 *Coffee break*

11.30 - 13.00 Students' presentations