

HYBRID TRAINING

**Specialised Training on
Electricity Market Design and
Renewables**

21-23 September 2022



CEER Specialised Training on Electricity Market Design and Renewables

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HYBRID CLASSES:

Wednesday, 21 September 2022 – 9:30-16:30 (CEST)

Thursday, 22 September 2022 – 10.00 – 17.00 (CEST)

Friday, 23 September 2022 – 9:30-15:30 (CEST)

Level B: Specialised Course

The "Clean Energy for All Europeans" Package (CEP) which was adopted in July 2019 aims to introduce an improved electricity market design in Europe. Since 1 January 2020, all provisions of the new Electricity Regulation (EU) 2019/943 have started to be applicable to the electricity markets and the provisions of the new Electricity Directive (EU) 2019/944 are on their way to be transposed into the national laws at the latest by 31 December 2020. Despite the early preparations, National Regulatory Authorities (NRAs) still face numerous challenges in implementing the new legislative package. Some open issues still have to be solved and common understandings and approaches still have to be developed.

This tailor-made CEER hybrid training programme is designed for experts from NRAs with a general background or previous experience in the electricity markets who would like to improve or update their knowledge and expertise in order to succeed with the implementation phase of the Clean Energy Package and the related electricity market design challenges. Other experts from European Institutions (ACER, European Commission) are also invited to attend.

Participants will revisit fundamentals of electricity market design, benefit from the input of academics on new key developments and challenges, and receive up-to-date information about important issues currently discussed and developed by NRAs.

All sessions will allow time at the end for Q&A, discussions and exchanges with the trainers and other participants.

HYBRID CLASS 1 – Wednesday, 21 September 2022 – 9:30 – 16:30 (CEST)

9:30-10:30 Welcome networking coffee

10:30-10:45 Opening remarks
Introduction of the participants, the programme and the event format

Gilles Bertrand, CREG, Course Director
Giulia Carpentieri, CEER Training and Program Coordinator

10:45-11:00 General introduction to the training

Gilles Bertrand, CREG, Course Director

SESSION 1

What are the general principles of electricity market design in Europe? Is the EU target model delivering the main objectives of a good market design? What are the difficulties in the implementation of the target model in Europe? This session will provide an academic overview of the general principles and challenges in the implementation of the electricity market design in Europe.

11:00-12:00 The European Green Deal, the Clean Energy packages and expected legislative evolution: General context and main focus

Mathilde Lallemand, European Commission, DG ENER - Onsite

12:00-13:30 Lunch Break

13:30-14:30 Future challenges in electricity markets

Jörn Richstein, DIW Berlin – Online TBC

14:30-14:45 Break

14:45-15:45 Market design fundamentals

Alain Marien, CREG - Onsite

15:45-16:30 Working Group Discussion and Wrap up of Day 1

HYBRID CLASS 2 - Thursday, 21 September 2022 – 10:00-17:00 (CEST)

SESSION 2

The representation of the network in clearing algorithms is currently undergoing changes in Europe. This session provides an overview of the different ongoing projects, including (i) the go-live of the CORE flow-based, (ii) the bidding zone reconfiguration analysis, and (iii) the analysis conducted by National Grid ESO in order to estimate the potential benefits of the implementation of a nodal design in the United Kingdom. This session also features an academical point of view of different network representation alternatives.

10:00-11:00 Analysis of the CORE flow-based go-live

Nico Schouttet, CREG - Onsite

11:00-11:15 Break

11:15-12:15 Bidding zone reconfiguration process

Rafael Muruais Garcia, ACER – Online

12:15-13:15 Comparison of the performance of a zonal and a nodal design

Expert TBC

13:15-14:15 Lunch Break

14.15- 15.15 Comparison of the performance of a zonal and a nodal design

Quentin Lété, UCLouvain - Onsite

15:15-15:30 Break

15:30 – 16:30 Topic TBC

Jakub Fijalkowski, European Commission, DG Ener

16:30-17:00 Working Group Discussion and Wrap up of Day 2

17.00 – 18.00 Belgian Beers Tasting at CEER Secretariat

HYBRID CLASS 3 – Friday, 23 September 2022 – 9:30-15:30 (CEST)

SESSION 3

Several projects have been recently launched in order to better integrate European balancing markets. This integration takes place for both the capacity procurement and the energy activation. Related to the procurement of balancing capacity, the co-optimization in day-ahead has been proposed in article 40 of the European Balancing Guideline. Related to the balancing energy activation, the European cross-border balancing platforms PICASSO, MARI and TERRE have been launched. This session presents the rationale for the integration of balancing markets, the recent developments in the different project as well as an academical point of view about European balancing market integration.

9:30-10:30 Implementation of the co-optimization in day-ahead

Martin Viehhauser, ACER - Online

10:30-11:30 Multi-Area Reserve Dimensioning using Chance-Constrained Optimization

Anthony Papavasiliou, NTUA – Onsite TBC

11:30-11:45 Break

11:45-12:45 Cross-border balancing platforms

Athina Tellidou, ACER – Onsite TBC

12:45-13:45 Lunch Break

13:45-14:45 Additional components in cross-border balancing

Gilles Bertrand, CREG – Onsite

14:45-15:30 Working Group Discussion and Wrap up of Day 3