

CEER Specialised Training on Renewable Energy and Electricity Market Design

25-26 September 2018

CEER Office, Cours Saint-Michel 30a (5th floor), 1040 Brussels

COURSE PROGRAMME

Renewable electricity generation levels have increased dramatically in Europe over the last decade, particularly in the form of wind and solar power, such that renewables are now a central part of Europe's electricity mix. In many Member States this has been driven by Government policy as part of the agenda to address climate change. The increase in intermittent renewable generation poses major technical and regulatory challenges to Europe's energy regulators in overseeing both energy networks and markets in consumers' interests.

This CEER course addresses these emerging regulatory issues. It examines methods of designing and implementing renewable generation subsidy schemes such that they are efficient and properly integrated into Europe's wholesale electricity markets. The course addresses how electricity network operators should be regulated to effectively manage increased generation intermittency while maintaining security of supply. The course also explains to participants how renewable generation is driving a re-think in energy market design, in order that markets are financially sustainable for both efficient renewable and non-renewable forms of electricity generation, while protecting the consumers.

Tuesday, 25 September 2018

10:30-17:45

WELCOME AND INTRODUCTION

10:30-10:45 Opening remarks and round-table introduction of the participants.

- **Ms Yvonne Finger, BNetzA/ Mr Harald Proidl, E-Control, Course Director**

SESSION 1 RENEWABLES AND THE FRAMEWORK FOR FUTURE DEVELOPMENTS IN EUROPE

10:45-11:30 Overview of the recent developments and transitions of the main support schemes in Europe, their design, cost and interaction with wholesale markets: pros and cons.

- **Ms Yvonne Finger, Co-Chair of CEER Sustainable Development Work Stream, Course Director**

Discussion/ Q&A (15 min)

11:30-12:15 Overview of recent developments in renewables and the policy in Europe, including the Renewable Energy Directive and its impacts on the Energy and Environment State Aid Guidelines.

- **Mr Pierre Loaec, DG ENER, European Commission**

Discussion/ Q&A (15 min)

12:15-13:15 Lunch break – CEER office

SESSION 2 TRANSITION OF RENEWABLES SUPPORT SCHEMES IN EUROPE

13:15-14:45 Case studies of different national approaches to managing the transitional process from traditional renewables support schemes to the competitive process. Case studies from Hungary and Greece.

- **Ms Katalin Varga, MEKH**
- **Mr Apostolos G. Gkizas, RAE**

Discussion/Q&A (20 min)

14:45-15:30 Group work on the national challenges to manage the transitional process from traditional renewables support schemes to the competitive process.

- **Ms Yvonne Finger, BNetzA/ Mr Harald Proidl, E-Control, Course Director**

15:30-15:45 Coffee break

SESSION 3 INTEGRATION OF RENEWABLES AND NEW MARKET DESIGN

15:45-16:45 The variability challenge and how to design intra-day and real-time markets, incorporating demand flexibility in practice.

- Flexibility valorisation on wholesale markets and evolution of the short-term wholesale markets (ID, XBID, Balancing)
- Role of demand-side flexibility in renewables integration (aggregation, smart metering and dynamic prices)
- Role and challenges for DSO

- **Ms H el ene Robaye, Eurelectric/Engie**
- **Mr Marcus Merkel, Eurelectric/EWE NETZ GmbH**

Discussion/Q&A (20 min)

16:45-17:30 Group work on the impact of renewables on wholesale energy markets and the new market design.

- **Ms H el ene Robaye, Eurelectric/Engie**
- **Mr Marcus Merkel, Eurelectric/EWE NETZ GmbH**

17:30-17:45 Wrap up of Day 1.

- **Ms Yvonne Finger, BNetzA/ Mr Harald Proidl, E-Control, Course Director**

17:45-18:45 Reception drinks – For those who wish to join, we will host a small drinks reception at the CEER office – all participants and lecturers welcome!

- END FIRST DAY-

Wednesday, 26 September 2018

09:00-16:15

SESSION 3 INTEGRATION OF RENEWABLES AND NEW MARKET DESIGN

09:00-09:45 Ways of managing renewables beyond day-ahead market – Case study on future's market approach by renewables in Portugal.

- **Mr Ricardo Pacheco, ERSE**

Discussion/Q&A (15 min)

09:45-10:45 Case study on network and market changes to facilitate increased levels of increased intermittent renewable generation – Ireland.

- **Mr Robert O'Rourke, CRU**

Discussion/Q&A (15 min)

10:45-11:00 *Coffee break*

11:00-12:00 Local Energy Communities: technical and economic drivers, local system and market infrastructures and regulatory challenges.

- **Mr Mikolaj Jasiak, DG ENER, European Commission**

Discussion/Q&A (15 min)

12:00-12:45 Balancing and integration of renewables in the new market design.

- Balancing renewables in practice.
- Implementation of the Electricity Balancing Guideline and the different platforms for implementing balancing cross-border coordination: TERRE, MARI, PICASSO as part of the new market design required for the integration of renewables.

- **Mr Stian Henriksen, NVE**

Discussion/Q&A (15 min)

12:45-13:45 *Lunch break – CEER office*

SESSION 4 REGULATORY CHALLENGES

13:45-14:45 The role of regulators to facilitate demand flexibility and create future-proof market design.

- The role of regulators to accommodate ancillary services

- The role of regulators to facilitate demand flexibility (including new products/ closing time on the market reflecting RES characteristics)
- The role of regulators regarding reserve markets

- **Mr Stefan Vögel, E-Control**

Discussion/Q&A (15 min)

14:45-15:30 The regulatory challenges for integration of distributed renewables and the challenges for DSOs, self-consumption and net-metering, design of retail tariffs including network and policy costs.

- **Mr Andreas Bjelland Eriksen, NVE**

Discussion/Q&A (15 min)

15:30-16:00 Group work on the regulatory challenges for integration of distributed renewables and the challenges for DSOs, self-consumption and net-metering, design of retail tariffs including network and policy costs.

- **Mr Andreas Bjelland Eriksen, NVE**

16:00-16:15 Course wrap-up.

- **Ms Yvonne Finger, BNetzA/ Mr Harald Proidl, E-Control, Course Director**

- END SECOND DAY -