



A new scenario is taking place in Europe with the transposition in the different Member States of the Clean Energy Package (specifically the Electricity directive EU 944/2019) with new roles for DSOs and DSOs being asked to enter into new activity areas. Regulators need to understand those areas and consider where (and what type of) regulation might be necessary. DSO-TSO cooperation is also set to evolve in a beneficial way for energy markets and ultimately for consumers. Governance of how DSOs and TSOs interact and engage in network planning, as well as arrangements to facilitate effective coordination for system operation, especially for flexibility, have been the key regulatory concerns in this area for the last few years and are now having to face now the challenge of being prepared for the implementation phase. More digitalisation under the profile of the data exchange among different classes of actors underneath is needed. This is a key element the energy regulator must bear in mind and pay proper attention to.

This CEER tailor-made three half-days course will give an overview of the DSOs' roles defined in the Clean Energy Package. Investments in the grid have a new focus; cooperation between DSOs and TSOs has evolved and will evolve; and the regulators' role in ensuring the proper governance framework and arrangements to facilitate effective coordination for network planning and system operation, including enabling flexibility and demand side management, are key aspects. How the DSO can actively cooperate in flexible markets (especially local) and what type of role they are called upon to embrace in "Smart EV" charging, particularly in the intense data exchange exercise this new opportunity calls for all needs closer examination. Finally, how regulation, and particularly energy regulation, can support such a new bundle of duties is part of the reflections that will be discussed in this course.

## COURSE STRUCTURE

### **Week 1: 06-12 June**

Individual preparation to the course: Literature review, reading materials, preparation of course work

[Online Live Session: 11:00-12:00 \(CET\) on 7 June 2022](#)

### **Week 2:**

[Online Class 1: 13:00-17:00 \(CET\) on 14 June 2022](#)

[Online Class 2: 13:00-17:30 \(CET\) on 15 June 2022](#)

[Online Class 3: 13:00-16:40 \(CET\) on 16 June 2022](#)

**Tuesday, 14 June 2022**  
**13:00-17:00 CET**

**13:00 - 13:15** Opening remarks and round-table introduction of the participants

Eleonora Bettenzoli, Deputy Director of Retail Energy Market- ARERA

**13:15 - 13:30** Introducing the participants – platform orientation

Giulia Carpentieri CEER Programme and Training Coordinator

## SESSION 1 NEW ROLE DSOs AND REGULATORY FRAMEWORK

**13:30 - 14:10** Investment pathway for the Smart Grids development: Art 59 of the Directive 944/2019, Role of National authorities and Network Operators and the Digitalisation of Energy Action Plan.

Giulia Serra - DGENER

**14:10 – 14:15** Break

**14:15 – 14:45** CEER Views on Electricity Distribution Network Development Plans

Riccardo Vailati - ARERA

**14:45 – 15:40** The rationale behind the EU DSO Entity: legal framework, setup and objectives

Torsten Knop – EU-DSO/Energy Networks Europe (E.ON )

**15:40 – 15:50** Break

**15:50 – 16:30** How regulation could remove barriers to consumers flexibility and how this would impact the DSO

Helena Gerard – Vito/ chair Bridge WS “Regulation”

**16:30 – 17:00** Questions and answers

Eleonora Bettenzoli, ARERA| Course Director

**- END OF DAY 1 -**

**Wednesday, 15 June 2022**  
**13:00-17:30 CET**

## SESSION 2 DSO in the FLEXIBILITY MARKET

**13:00 – 13:15** Wrap up of day 1, introduction of day 2

Eleonora Bettenzoli, ARERA| Course Director

**13:15 - 13:45** **New European rules on demand response: what is it and what principles are its basis**

Athina Tellidou – ACER / Chair “Balancing” TF

**13:45 – 14:15** **Assessment of demand-side flexibility impact on distribution network (theoretical approach)**

Marco Rossi – RSE / expert flexibility markets

**14:15 – 14:30** **Break**

**14:30 – 15:45** **Local Flexibility market design and TSO/DSO coordination: R&D projects**

Jose Pablo Chaves – Comillas UNIV. Research Professor

**15:45 – 16:15** **How DSO can contribute in flexibility services and be incentivized to it. (How this role depends on local flexibility Market design) (national experiences – NRAs)**

Timon Dubbeling – ACM / Senior Energy Regulator

**16:15 – 16:25** **Break**

**16:25 – 17:00** **Real life experience from implementing flexibility solutions. How can we advance and take the leap from pilot projects to make flexibility solutions part of DSO routine?**

Rickard Venetjoki – E.ON/Manager Political Affairs

**17:00 - 17:30** **Breakout Rooms exercise and final challenge discussion**

Eleonora Bettenzoli, ARERA| Course Director

**- END OF DAY 2 -**

**Thursday, 16 June 2022**  
**13:00-16:40 CET**

## **SESSION 3 DSO DIGITILISATION**

**13:00 – 13:15** **Wrap up of day 2, introduction of day 3**

Eleonora Bettenzoli, ARERA| Course Director

**13:15 – 13:45** **Managing grid integration of electric vehicles – context view**

Cristina Corchero - Head of Energy Systems Analytics at IREC, Professor at UPC

**13.45 – 14.15 EV recharge and data exchange: differences between recharge at home and in public places**

Luca Lo Schiavo – Vicedirector Infrastructure Directory – ARERA

**14.15 -14:25 Break**

**14:25 – 14.55 Case studies**

Luis Cunha, Director of European Policies and Projects at E-REDES

**14.55 -15.15 Challenge Discussion**

Participants

**SESSION 4 DSO – TSO COOPERATION for DATE EXCHANGE**

**15:15 -15:35 SOGL (System operation Guide Lines) – global perspective**

Marco Pasquadibisceglie – ARERA/co-chair “system operation grid connection” TF - ACER

**15:35 –15:55 Case studies:  
DSO oriented model: Design and Operation of the Mutual Agreements System (MAS) as part of TSO/DSO Data-exchange in the Netherlands**

Bram Sieben, Alliander/Director of Corporate and Social Affairs

**15:55 – 16:10 Break**

**16:10 – 16:30 TSO oriented model: TSO-DSO-SGU data exchanges in the context of system and network services**

Inés Encabo Cáceres, Red Electrica Espana

**16:30 – 16:40 Questions and answers**

Eleonora Bettenzoli, ARERA| Course Director

**- END OF DAY 3 -**