

CEER Training on Energy Communities and New Actors in the Energy Sector

27-29 September 2021
ONLINE

COURSE PROGRAMME

Monday, 27 September 2021 – 14:00-17:00 (CEST)
Tuesday, 28 September 2021 – 14:00-17:00 (CEST)
Wednesday, 29 September 2021 – 14:00-17:00 (CEST)

Level A: Overview course

Smart metering, better price signals, technological developments, decentralisation of the generation from renewable energy sources all create opportunities for new actors in the energy sector. Given these emerging trends, the Clean Energy Package created Renewable Energy Communities and Citizen Energy Communities in order to achieve a clean and fair energy transition. In various ways, these new market participants offer new answers to old questions. These new legal entities aim at fostering renewable energy projects and empowering customers. These new entities of the energy market also seek to generate increased flexibility in the system which might trigger new business models developments and, accordingly, new challenges for regulators. This emerging framework might trigger significant impacts on all market actors from the consumer to the Distribution system operators (DSOs).

If regulated such that incentives match system gains, these actors can contribute to a more efficient industry. However, as we are still at the early stage of the implementation of this new framework, the role such actors may play in practice remains uncertain. Many projects are still only in the research and development phase. Therefore, potential regulatory challenges are not necessarily clear and could benefit from an increased dialogue between regulators and new actors.

Energy regulators need to understand how these new actors affect the energy sector and how they can contribute to cost-efficient electrification and digitalisation. This tailor-made CEER online training programme will help deliver energy regulators this expertise. It is designed for staff from the National Regulatory Authorities but representatives from other organisations are also welcome to attend.

The first part of the programme will cover regulatory aspects of energy communities and case studies on regulatory experiences. During the second part, participants have the possibility to discuss the opportunities of these frameworks for new business models in the energy sector directly with new actors. Presentations on various academic studies and projects also give an overview of the current research on the topic. The last part will focus on legal and technical challenges for both consumers and DSO's.

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

ONLINE CLASS 1: Monday, 27 September 2021 – 14:00-17:00 (CEST)

14:00-14:15 **Opening remarks**
Introduction of the participants, the programme and the online format

Anne-Maud Orlinski, CRE, Course Director
Silke Huber, CEER Training Manager

SESSION 1 INTRODUCTION TO ENERGY COMMUNITIES – REGULATORY ASPECTS AND CASE STUDIES

What is an energy community? What are the differences between Renewable Energy Communities and Citizen Energy Communities? What are the differences with existing other concepts? How are they defined in the EU's legal framework (Clean Energy Package)? This session will provide participants with an overview of these concepts and how they are defined in the Clean Energy Package. It will include the status of implementation of energy communities and the regulatory challenges regarding new concepts. In particular, this session will explore the regulatory implications of the formal recognition of citizen and renewable energy communities. The regulatory aspects of self-consuming, selling and sharing of electricity, the role of energy communities in managing electricity consumption and providing flexibility and the issues of owning, operating and managing electricity networks are discussed. In addition, case studies on the challenges of regulating energy communities, including tariffs, scope, rights and obligations are presented and debated.

14:15-14:45 **New actors, renewable energy communities and citizen energy communities, in the Clean Energy Package-related Directives and provisions: Ambitions of the new framework and differences with existing models**

Achille Hannoset, European Commission, DG ENER

14:45-15:00 **Interactive exchange on the conciliation of the ambitions of Energy Communities with the Internal Energy Market**

All participants

15:00-15:30 **Implementation of energy communities and regulatory challenges regarding tariffs, energy sharing scope, rights and obligations: Results from the Energy Communities Task Force under the EU-funded BRIDGE project**

Leen Peeters, EU-funded BRIDGE project

15:30-15:45 **Break**

15:45-16:15 **Case studies on regulatory experiences with the implementation of energy communities in Italy, Sweden and Portugal**

Andrea Galliani, ARERA
Claes Vendel Nylander, Ei
Paulo Oliveira, ERSE

16:15-16:45 Practical experiences of energy communities with RESCoop (existing initiatives)

Dirk Vansintjan, RESCoop

16:45-17:00 Wrap up of Day 1

Anne-Maud Orlinski, CRE, Course Director
Silke Huber, CEER Training Manager

ONLINE CLASS 2: Tuesday, 28 September 2021 – 14:00-17:00 (CEST)

SESSION 2 NEW BUSINESS AND MARKET MODELS IN THE ENERGY SECTOR AND THEIR IMPACTS ON REGULATION

Innovation and technological progress, as seen by energy regulators, are means to achieve the overarching regulatory goals of cost efficiency and an adequate quality of service and security of supply to the benefit of the final consumer and the energy transition. Many new actors in the energy sector carry innovation potential and can propose solutions which may lead to questioning the principles of the current regulatory framework and other current practices. If regulated such that incentives match system gains, these actors can contribute to a more efficient industry. However, the role such actors may play in practice remains uncertain. Potential regulatory challenges are not necessarily clear.

This session aims to explore the roles of new business and market actors and their impacts on regulation, especially for National Regulatory Authorities (NRA's) Presentations on various academic studies and projects also give an overview of the current research on this topic.

The first part will focus on the growth of “behind meter developments” and the impact on consumer empowerment. The second part will be dedicated to the development of flexibility and storages services and the challenges of such activities, for the operation of the grid

14:00-14:30 New business models report of CEER – Presentation of key findings and potential challenges for energy regulators

Tomáš Kupčičha, Energy Regulatory Office (ERO)

14:30-14:45 Feedback of an energy community project – HARMON'YEU Project

Jean-Bertrand Hardy, ENGIE

14:45-15:15 New actors in the energy sector and interactions with Energy Communities: aggregators, etc. which drive the “behind the meter” developments in the energy sector and new interfaces

Andres Pinto-Bello, SmartEN
Felix Dembski, Sonnen

**15:15-15:30 Interactive session on new business models and emerging actors:
Sharing experiences and trends on national markets
Identifying legal and technical challenges**

All participants

15:30-15:45 Break

15:45-16:15 New legal challenges of Peer-to-Peer activities and energy sharing

Lucila de Almeida, Florence School of Regulation and Wageningen University

16:15-16:45 Benefits and challenges from the consumer perspective

Alain Taccoen, Eurelectric

16:45-17:00 Wrap up of Day 2

Anne-Maud Orlinski, CRE, Course Director
Silke Huber, CEER Training Manager

ONLINE CLASS 3: Wednesday, 29 September 2021 – 14:00-17:00 (CEST)

SESSION 3 TECHNICAL INNOVATION AND REGULATORY CHALLENGES

The second part will be dedicated to the development of flexibility and storages services and the challenges of such activities, for the operation of the grid and technical challenges of interoperability. This part will also focus on NRA's to tackle these new trends from a regulatory perspective.

**14:00-14:30 Recent developments on aggregators and other actors in flexibility
markets and regulatory implications**

Ellen Beckstedde, Vlerick Business School

**14:30-15:00 The role of energy storage and the new business model in the energy
transition and regulatory implications**

Patrick Clerens, European Association for Storage of Energy (EASE)

**15:00-15:30 Technical and regulatory challenges of data sharing, introduction to
interoperability challenges**

Anna Maggioni, ARERA

15:30-15:45 Break

15:45-16:15 **Regulatory building blocks for new business and market models (smart meters, tariffs, DSO-TSO cooperation, etc.) - Challenges for NRAs**

Alasdair MacMillan, Ofgem

16:15-16:45 **Challenges of Energy Communities for Distribution System operators**

Carmen Gimeno, GEODE

16:45-17:00 **Wrap-up of the course**

Anne-Maud Orlinski, CRE, Course Director
Silke Huber, CEER Training Manager