

THE ROMANIAN ENERGY CENTER ASSOCIATION CONTRIBUTED TO THE VIRTUAL CONFERENCE ORGANIZED BY CROSSBOW PROJECT

30th of June 2021, Carina Ioana ZIDARU

The representatives of the Romanian Energy Center (CRE) Association actively contributed to the discussion and participated at the Online Conference entitled „**MANAGING CROSS-BORDER RENEWABLE ENERGY PRODUCTION AND STORAGE IN TRANSNATIONAL WHOLESALE MARKETS TO MEET CLIMATE CHANGE MITIGATION TARGETS**”, on Thursday, 17th of June 2021. The Virtual Conference was organized by CROSSBOW Project, in collaboration with the Department of Business Administration National and Kapodistrian University of Athens (NKUA) and Public Power Company S.A. (PPC), with the support of the Center of Excellence for Energy and Renewable Sources and Transportation, NKUA. The main objective of this Conference was to make public the results of this Horizon 2020 project.

CROSSBOW Project is funded by the European Commission (EC), through the Horizon 2020 Program. CRE is partner in this project together with TRANSELECTRICA S.A., under the coordination of the Group ETRA Investigation Y Desarrollo SA from Spain, together with eight other Transport and System Operators (TSOs) from Central and South-East Europe: ADMIE (GR), ESO (BG), EMS (RS), NOS BiH (BA), HOPS (HR), ELES (SI), CGES (ME), MEPSO (MK) and other partners, in a consortium of 24 energy and telecommunications organizations from 13 European countries. The CROSSBOW Project started in November 2017, with a duration of four years, and has a budget about 22 million Euro.

The original need to make public the results of the CROSSBOW Project has provided the opportunity for a broader presentation of the issues related to the management of production and storage of electricity generated from Renewable Energy Sources (RES) at regional, national and cross-border levels. CROSSBOW Partners presented the effects of high penetration of variable and distributed RES on the demand for cross-border electricity transmission in Europe. The impacts of different electricity generation and transmission portfolios and the CROSSBOW project in the context of the [European Green Deal](#) were important topics highlighted during the discussions.

The main outcomes included: The Internet and Information and Communications Technology (ICT) enable innovations for the smarter use of energy known as Smart Grids, handling data through remote sensing, control, and monitoring processes. Wind and solar energy may support the production of green hydrogen, also called renewable hydrogen to produce, store, and use electricity discretely. The conversion of RES power to green hydrogen and use of this green hydrogen in the gas grid, in the transport sector, or in the industry shall speed-up the decarbonisation of these sectors.

CROSSBOW Conference followed three round table discussions lead by high profile experts from cross-domain topics. **CRE** Association actively contributed to the first round-table discussion entitled „**The CROSSBOW Project**”. Dr. Mihai PAUN - Manager Development and Innovation of CRE highlighted „**The Lessons learned from CROSSBOW on the Impact of Renewables Integration on the Energy System**”. „*Due to the fact that only a number of consortium' countries are Member States of the European Union (EU), a set of financial barriers regarding the taxation occurred during the implementation of the CROSSBOW products. Therefore, to increase a large-scale implementation of the CROSSBOW technological solutions, a unitary and harmonized legislative approach is needed. We made one of these recommendations to harmonize the legislative approach, as well as, the regulatory framework to increase the implementation of the solutions, and to support both renewables and storage solutions integration. Smart Grids are key for the transition towards the Energy System Integration Strategy. Smart Grids are about the digital transformation of the Energy Sector*”, pointed out Mihai PAUN in his final remarks.

The **CROSSBOW** Project proposes innovative solutions through the shared use of partners' resources to encourage cross-border management of variable renewable energies and storage units, allowing increased penetration of clean energies, while reducing the operational costs of the network and improving the economic benefits of clean energies and storage units. CRE contributes to the evaluation of the technical and socio-economic impact of CROSSBOW integrated solutions, to the definition of business models and solutions for overcoming local, regional and global barriers, and to the exploitation, business innovation strategy and contribution to standards.

CRE already implemented five European H2020 Projects: [SUCCESS](#), [RESERVE](#), [NRG5](#), [WISEGRID](#) and [SOGNO](#), is currently implementing other five projects: [CROSSBOW](#), [PHOENIX](#), [TRINITY](#), [EDDIE](#) and [EDGEFLEX](#) and will start [CYBERSEAS](#) in October this year.

CRE Association is an active and strategic partner together with its members and other potential members in international consortia for deploying energy projects funded by the EC.

