

Press Release



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New Project eNeuron Launched: «GreEn Energy Hubs for Local IntegRated Energy Communities optimisation»

The Technical Coordinator is the PV Technology Laboratory of FOSS Research Centre for Sustainable Energy and the Department of Electrical and Computer Engineering of the University of Cyprus



A new partnership that brings together eight European countries, Cyprus, Italy, Poland, Spain, Norway, Germany, Ireland, Portugal has been launched for the implementation of a new project with acronym “**eNeuron**” and entitled “**GreEn Energy Hubs for Local IntegRated Energy Communities optimisation**”. The project is selected for funding by the European Commission Innovation and Networks Executive Agency (INEA) under the Horizon 2020 Framework Programme (H2020). The project is jointly coordinated by the Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) and the PV Technology Laboratory of FOSS Research Centre for Sustainable Energy of the University of Cyprus. The total project funding is €5.731.117,50 and the funding for the University of Cyprus is €464.125,00.

The project team comprises of technology providers, research centres, universities, public authorities and industrial companies. The rest of the consortium consists of the Institute of Power Engineering of Poland (IEn), the Catalonia Institute for Energy Research (IREC) in Spain, the SINTEF Energi AS in Norway, the Technalia Research & Innovation in Spain, the European Distributed Energy Resources Laboratories e.V. (DERlab) in Germany, the EPRI Europe DAC in Ireland, the Polytechnic University of Marche (UnivPM) in Italy, the Polytechnic University of Madrid (UPM) in Spain, the ENEA Distribution System Operator in Poland, the Distribution System Operator Skagerak Nett in Norway, the EDP Group (EDP LABELLEC) in Portugal, the non-profit organization Fondazione the ICONS in Italy, Eneida Wireless and Sensores, S.A. in Portugal, Marinha Portuguesa in Portugal and the City of Bydgoszcz (CoB) in Poland.

The eNeuron project aims to set out a practical and evidence-based framework for optimising the design and operation of local energy communities (LECs) acting as energy hubs. The main goal of the eNeuron project is to develop innovative tools for the optimal design and operation of local energy communities - integrating distributed energy resources and multiple energy carriers at different scales. This goal will be achieved, by having in mind all the potential benefits achievable for the different actors involved and by

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promoting the Energy Hub concept, as a conceptual model for controlling and managing multi-carrier and integrated energy systems in order to optimize their architecture and operation.

As local energy communities grow, citizens will enjoy cheaper energy thanks to the optimal use of local power sources. Carbon emissions will drop as a result of better integration of renewables and emerging technologies into local energy systems. And power grids will be more resilient and sustainable through the integrated approach of multi-carrier energy systems.

The official launch date of the research project was the 1st of November 2020 and the project is scheduled to run for 48 months. The kick-off meeting of the project was successfully held virtually on the 17th and 18th November 2020.

For more information, you may contact Dr. Christina Papadimitriou (email: papadimitriou.n.christina@ucy.ac.cy) or Professor George E. Georghiou (email: geg@ucy.ac.cy) or navigate to the project webpage: www.eneuron.eu (*coming soon*).

End of announcement