Short CV Eugen Iavorschi, Paper ID : 122 European Energy Transition: A Comparative Analysis of Renewable Energy, Electricity Consumption, Emissions, and Energy Dependence in Romania and the European Union

Eugen Iavorschi is a PhD candidate in Electrical Engineering at the Doctoral School of Applied Sciences and Engineering, "Ștefan cel Mare" University of Suceava, Romania. His doctoral research focuses on the transition of buildings toward the Passive House concept and the optimization of building energy systems. He holds a Master's degree in Building Services Engineering from the "Gheorghe Asachi" Technical University of Iași and completed an Erasmus academic mobility at the Université de Reims Champagne-Ardenne, France. His research interests include building energy efficiency, passive and double-skin façades, renewable energy integration, sustainable energy systems, the energy transition, and nearly zero-energy buildings (nZEB). Eugen Iavorschi is the author and co-author of several scientific publications published in international journals indexed in the Web of Science and Scopus databases, including *Sustainability*, *Energies*, and *Applied Sciences*. His research addresses topics such as energy efficiency, renewable energy, passive building technologies, and energy transition policies. He is also the co-inventor of several patent applications in the fields of energy systems and building technologies. In addition to his academic activities, he serves as a Connection Manager at Delgaz Grid S.A., Romania, where he has professional expertise in natural gas distribution systems, energy infrastructure, and energy sector development.