

Title: Neighborhood Energy Trading and Renewable Energy Communities

Abstract: Recently, the regulation in several countries is opening up the possibility for electricity end-users to directly transact with their neighbors, within the framework of energy communities. Energy communities equipped with both distributed generation units, mainly from photovoltaics, and storage units will favor the local balance between production and consumption during the day, with the advantages for the network of improved efficiency on the one hand and reduced use on the other. This talk will focus on transaction pricing and power loss reduction in the energy resource scheduling of a local energy community.