

AVVISO DI SEMINARIO



Power quality and active energy flows related to customers operating renewable (PV) power source - prosumers

Giovedì 21 ottobre 2021

Aula 1C

Ore 14:00-15:30

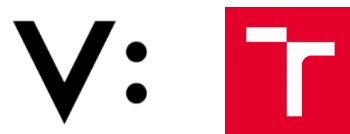
Abstract

With the growth of distributed energy resources operated by customers/consumers (i.e. prosumers), the way of operating their installations is changing as well, motivated by new economic and technical goals. In a case the economical model is not based on net metering, that was found to be very asocial, then it makes sense to consume all the produced energy, than to sell it and to buy it back if needed. The possibilities of achieving balanced production and consumption are also limited by the technological possibilities available on the market and their price.

The presentation summarizes and categorizes currently available technical solutions and focuses on the connection with the billing measurement of electricity and the impact on selected indices of voltage quality. Moreover, field measurement campaign is presented and discussed in order to identify current situation severity.

Erasmus Staff Mobility

Seminario organizzato nell'ambito del programma di mobilità docenti tra la Università degli Studi della Campania "Luigi Vanvitelli" e l'Università di Brno



Short Biography

Jiri Drapela received his M.Sc. and Ph.D. in Electrical Power Engineering from Brno University of Technology in 1999 and 2006, respectively. He is currently a professor and deputy head of the Department of Electrical Power Engineering at the same university. He works also as a senior researcher in Centre for Research and Utilization of Renewable Energy where he leads Power Quality and Low-Frequency EMC laboratory. Jiri is an active member of leading professional societies (IEEE, CIRED, CIGRE). His main research interests are power quality and low-frequency conducted disturbances, especially immunity, emission of electrical appliances and power quality measurement techniques.

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