



SMANJENJE GUBITAKA U DISTRIBUTIVNOJ MREŽI U OKVIRU PRELASKA NA ODRŽIV AKTIVAN SISTEM

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Cilj predavanja je da se prezentuju mere čijom primenom je moguće smanjiti gubitke aktivne energije u distributivnoj mreži. To su aktivnosti koje su, u manjem ili većem obimu, primenjene u velikom broju sistema širom sveta i koje su imale značajne tehničke, ekonomske i društvene efekte: gubici su značajno smanjeni, povećana je zaposlenost, uposleni su industrijski kapaciteti i omogućeno je priključenje znatno većih snaga distribuiranih generatora. Svaka od mera je ilustrovana numeričkim primerima.

REDUCING LOSSES IN DISTRIBUTION NETWORKS DUE TO ACTIVE SYSTEM TRANSITION

The aim of the lecture is to present measures whose application can reduce the loss of active energy in the distribution network. These are activities that have been implemented in a number of systems around the world on a smaller or larger scale and have had significant technical, economic and social effects: losses have been significantly reduced, employment has increased, industrial capacity has been employed and connection of significantly greater power of distributed generators has been enabled. Each measure is illustrated with numeric examples.



Vladica Mijailović je rođen u Kraljevu 1966. godine. Diplomirao je na Energetskom odseku Elektrotehničkog fakulteta u Beogradu 1991. godine, na temu kompenzacije reaktivne energije u distributivnim mrežama. Magistarski rad i doktorsku disertaciju je odbranio na istom fakultetu 1995. i 1999. godine, respektivno. I magistarski rad i doktorska disertacija su iz oblasti pouzdanosti distributivnih sistema.

Na Fakultetu tehničkih nauka u Čačku je zaposlen od 1991. godine. Prošao je sva saradnička i nastavnička zvanja. U novembru 2009. izabran je za redovnog profesora za užu naučnu oblast Elektroenergetika. Realizuje nastavu iz predmeta Razvodna postrojenja, Distribuirani izvori energije, Automatizacija i pouzdanost distributivnih sistema i Pouzdanost visokonaponskih postrojenja. Sva njegova dosadašnja istraživanja su vezana za oblast distribucije električne energije.

Vladica Mijailovic was born in Kraljevo in 1966. He graduated from the Energy Department of the Faculty of Electrical Engineering in Belgrade in 1991, on the topic of compensating for reactive energy in distribution networks. He received his master's and doctoral degree at the same faculty in 1995 and 1999, respectively. His master's work and doctoral dissertation are both in the field of reliability of distribution systems.

He has been employed at the Faculty of Technical Sciences in Čačak since 1991. He has been through all the collaborative and teacher titles. In November 2009, he was elected full professor for the narrower scientific field of Electroenergetics. He realizes classes from the subject of Distribution switchgear, Distributed Energy Sources, Automation and Reliability of Distribution Systems and Reliability of High Voltage Plants. All his research so far is related to the area of electricity distribution.