

Dissertation press release

06.08.2020

How Can Financial Incentives for Reliability be Modeled in Electricity Distribution Studies?

Title of the dissertation	Electricity Distribution System Planning Considering Incentive Reliability Regulations
Contents of the dissertation	Electricity distribution systems are dynamically expanded in anticipation of new demands. Cost and reliability are the most important factors in finding the optimal plans for the network expansion. Recently, implementation of incentive reliability regulations has accentuated the role of reliability considerations in distribution systems studies. This is because such incentive schemes create a direct link between distribution companies' revenues and their service reliability. Thus, these schemes have changed the role of reliability from a technical constraint to an economic factor. In this occasion, distribution companies require new techniques to incorporate the effects of incentive reliability regulations in their planning studies to get the most benefits.
	Motivated by these points, in this dissertation, various mathematical models are developed to incorporate the incentive reliability regulations into the planning studies of electricity distribution networks.
Field of the dissertation	Power Systems
Doctoral candidate	Mohammad Jooshaki, M.Sc. (Tech.), Born in Iran, 1988.
Time of the defence	17.08.1988 time 12:00-16:00
Place of the defence	Microsoft Teams: https://teams.microsoft.com/l/meetup-join/19%3a9a671c0347534b088807a5c2ec5af018%40thread.tacv2/1596622310939?context=%7b%22Tid%22%3a%22ae1a7724-4041-4462-a6dc-538cb199707e%22%2c%22Oid%22%3a%22d57ac0cb-838c-4635-8852-d46e69b3abb6%22%7d
Opponent	Professor Lina Bertling Tjenberg, KTH Royal Institute of Technology, Sweden
Custos	Professor Matti Lehtonen, Aalto University School of Electrical Engineering, Department of Electrical Engineering and Automation
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