

DG Power Plants Placement and Evaluation of its Effect on Improving Voltage Security Margin in Radial Distribution Networks

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Abstract : In this article, we introduce the stability of power system voltage and state DG power plants placement and its effect on improving voltage security margin in radial distribution networks. For this purpose, first, important definitions in voltage stability area such as small and big voltage disturbances, instability, and voltage collapse, and voltage security definitions are stated. Then, according to voltage collapse time, voltage stability is classified and each one's characteristics are stated.

Keywords : DG power plants, evaluation, voltage security, radial distribution networks

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