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Optimal Allocation and Contingency Analysis Studies of Embedded Generation in Distribution Systems

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Abstract

This paper presents two areas of studies of embedded generation (EG) viz. optimal allocation and contingency analysis. The paper is started by introducing a method that uses real code genetic algorithm technique to allocate the location and the size of EG in distribution system. It follows by the evaluation of the impact of the location and size of EG to the system. The analysis will cover before and after the contingency is created in the system due to fault. The allocation method and contingency analysis study are demonstrated using 24 bus and IEEE 69-bus radial distribution systems.

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