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Minimize Energy Losses Configuration of Power Distribution System

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Abstract

The reduction of energy losses in distribution system is an important issue during planning and operation of electrical engineering. In this paper, a new method to minimize energy losses configuration in power distribution system using DLF program is presented. Two matrices that are developed from the topological characteristics of distribution systems are used to solve distribution network problems. These two matrices are combined to form a direct approach for solving reconfiguration problems. This work has been tested on 33-bus system. Merit of used method is that it is very effective and solutions get conversed even in seconds.

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