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REVIEWED BY
Hossein Lotfi,
Hakim Sabzevari University, Iran
Cong Zhang,
Hunan University, China

*CORRESPONDENCE
Xingquan Ji,
✉ xqj@sdust.edu.cn

RECEIVED 18 August 2023
ACCEPTED 28 September 2023
PUBLISHED 06 October 2023

CITATION
Liu Q, Zhang L, Ji X and Shi H (2023),
Dynamic reconfiguration of distribution
network considering the uncertainty of
distributed generation and loads.
Front. Energy Res. 11:1279579.
doi: 10.3389/fenrg.2023.1279579

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Dynamic reconfiguration of distribution network considering the uncertainty of distributed generation and loads

Qi Liu, Lihong Zhang, Xingquan Ji* and Huizhe Shi

College of Electrical Engineering and Automation, Shandong University of Science and Technology,
Qingdao, China

This study presents a new methodology to perform the distribution network dynamic reconfiguration (DNDR), taking into consideration the stochastic variations of loads and distributed generation (DG) of power. To solve the heavy computational burden that exists in traditional algorithms of the DNDR, this study first establishes the nodal sensitivity models to calculate the nodal variations caused by nodal power variations. Then, the DNDR is executed utilizing a co-evolutionary algorithm with the goal of loss minimization. The stochastic power flow calculations (PFCs) based on the nodal sensitivity are performed in the DNDR to handle the power fluctuations of the DGs and loads. Finally, the modified IEEE 33-bus test system and a practical distribution system are used for simulations. The simulation results validate the quickness and effectiveness of the proposed DNDR method.

KEYWORDS

dynamic reconfiguration, distributed generations, uncertainty, sensitivity, co-evolution

1 Introduction

1.1 Literature review

The distribution network reconfiguration (DNR) can adjust the network topology and improve the performance of distribution networks by combining the open/closed states of line switches. The goals of the DNR include reducing the power losses (Lotfi et al., 2020), improving system reliability (Kiammehr et al., 2019), enhancing system resilience (Sun et al., 2023), reducing voltage drops (Song et al., 2020), and managing energy (Gao et al., 2022a). The DNR plays an important role in the distribution automation of the system.

It is usually formulated as a complex non-linear optimization problem. The solution algorithms for the DNR include intelligent optimization algorithms, heuristic algorithms, and mathematical programming algorithms. Intelligent optimization algorithms, such as the genetic algorithm, honeybee mating optimization algorithm, particle swarm optimization algorithm, and harmony search algorithm, have been successfully applied in DNR (Roosta et al., 2019; Jafari et al., 2020; Lotfi and Ghani, 2021; Hinasri et al., 2022). However, the tremendous amount of computation of intelligent optimization algorithms greatly limits their engineering applications. The heuristic algorithms can solve the DNR problem with high speed. In the study by Harns and Das (2023), a two-stage heuristic algorithm based on the power flow analysis is used for DNR. Zhao et al. (2020) proposed the switch opening and exchange method for DNR. Recently, efficient mathematical programming algorithms, such as convex programming, have been

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