

عنوان مقاله:

Comparison of Different Power Sharing Methods in AC- and DC-microgrid with Power Electronic Interfaced

Distributed Generations

محل انتشار:

اولین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی برق و کامپیوتر (سال: 1395)

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خلاصه مقاله:

In the islanded operation of microgrids, various control strategies have been developed to guarantee stable operation of microgrids. In this paper, different power sharing methods such as droop controller, average power sharing (APS) method, and master-slave method are compared in AC and DC islanded microgrids with converter-based distributed generations (DG). The suitable controller (voltage controller and power sharing controller) for each DG is designed. Different scenarios of load variations are tested using Matlab/Simulink sofware to compare the accuracy and effectiveness of power sharing methods. Based on the simulation results, suitable power sharing method in each .microgrid (AC or DC) is chosen based on its performance and minimum power sharing error

كلمات كليدى:

Converter-Based Power Sources, Distributed Generation, Islanded Microgrid, Proportinal Resonant Controller

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