عنوان مقاله:

Investigating Power Sharing and Frequency Deviationof Islanded Microgrid Considering Different ControlStrategies and Droop Coefficients

محل انتشار:

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خلاصه مقاله:

Microgrid is defined as controllable unit whichincludes Distributed Generations, loads, energy storages and control devices. It can be operated in grid connected andislanding modes. Voltage and frequency control and powersharing between DGs are an issue of a great importance inislanding operation of microgrid. Two main control strategies for DGs are active-reactive power control and voltage-frequencycontrol. Droop control is usually used to control power sharing between DGs in islanding mode. Selections of appropriate controlstrategy and droop coefficient have a strong effect on themicrogrid performance. This paper analyzes the influence of control strategy and droop coefficient selection on the powersharing and frequency deviation of islanded microgrid. A singlebus microgrid that consists of .two parallel DGs is simulated using MATLAB/Simulink. Five cases are considered for investigations

کلمات کلیدی:

Distributed Generation; Droop Control; Islanding operation; PQ control; Vf control

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