

عنوان مقاله:

PHEVs Participation in Voltage and Frequency Control of Autonomous Microgrids

محل انتشار:

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خلاصه مقاله:

this paper proposes a new intelligent droop control for controlling the voltage and frequency of microgrids (MGs). This intelligent method uses ANFIS controllers in order to decouple the system operation from the network specifications (such as line impedances). The proposed framework can be utilized in order to control the MGs including various DG technologies and conventional generators. Also, the PHEVs are modeled and participated in the voltage and frequency control. The PHEVs participate in the primary voltage and frequency control. Simulation studies have been implemented on a 14-bus MG including renewable and non-renewable units. Simulation results approve the effectiveness and applicability of the proposed methodology in control of MG's voltage and frequency

کلمات کلیدی:

MG; PHEV; Droop Control; ANFIS; Voltage and Frequency Control

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