

عنوان مقاله:

Considering Dispersed Generation in Optimal Load Shedding for Distribution Networks

محل انتشار:

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خلاصه مقاله:

This paper discusses the load shedding problem at the electrical power distribution systems with dispersed generations (DG). A genetic algorithm (GA) is employed to search for the optimal load shedding strategy in distribution networks considering DGs. Electrical power distribution systems have a radial network and unidirectional power flows but with the advent of dispersed generations, the power distribution system have a locally looped network and bidirectional power flows. Therefore, DG into the power distribution system can cause operational problems and impact on existing operational schemes. There are several operational schemes in power distribution systems. One of these operational schemes is load shedding. However, with the introduction of DG in power distribution systems, this increases the complexity of this problem. The objective is to minimize the sum of curtailed load for a given generation within the frame-work of system operational and security constraints. The proposed method is tested on a bus33 .radial distribution system with DGs for more practical applications

کلمات کلیدی:

Dispersed generation, load shedding, genetic algorithm

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