

عنوان مقاله:

Simultaneous analysis and planning of optimal distribution of generation and optimal location of distributed generation resources in an unbalanced three-phase microgrid

محل انتشار:

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خلاصه مقاله:

In this article, the optimal distribution of production and the optimal location of scattered production sources in the Ya electricity distribution network are investigated considering an unbalanced three-phase network. The main purpose of this article is to find out which of the distributed generation sources are located in which bus of the network and on which phase L_1 , L_2 , L_3 and how much power each of the distributed generation sources can produce that is equal to the consumption. and reduce the cost of production to a minimum. Also, the technical parameters of the network such as network losses and voltage profile are improved and finally we use the network optimally. To achieve this goal, we use unbalanced three-phase load distribution and use genetic algorithm to perform relevant optimizations and positioning of buses and phases.

کلمات کلیدی:

,optimizations , unbalanced three-phase network , genetic algorithm

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