

عنوان مقاله:

Demand Response: A Promising Solution to DG Allocation Problem

محل انتشار:

مجله مهندسی برق مجلسی، دوره 11، شماره 3 (سال: 1396)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

In this paper, a comprehensive algorithm using modified invasive weed optimization is introduced for allocating distribution generation (DG) sources along with considering demand response (DR). Three aspects such as technical, economic and environmental are taken to account to define the optimized size and location for DG or DR. In addition, a new voltage fitness function is proposed for better improvisation of voltage profile. The study is done on ۳۰-bus IEEE distribution system and to examine the proposed algorithm, three other optimization algorithms such as GA, PSO and DE are used. The simulation is carried out in MATLAB which shows excellent performance of proposed algorithm

کلمات کلیدی:

modified invasive optimization algorithm, no agencies, en, Demand Response, distribution generation, DG allocation

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