

عنوان مقاله:

Optimal Siting and Sizing of Distributed Generation for Congestion Management

محل انتشار:

بیست و چهارمین کنفرانس بین المللی برق (سال: 1388)

تعداد صفحات اصل مقاله: 9

نویسندگان:

M Afkousi-Paqaleh - Dept. of Electrical Eng., Sharif University of Technology, Tehran, Iran

A Abbaspour-Tehrani fard - Dept. of Electrical Eng., Sharif University of Technology, Tehran, Iran

M Rashidinejad - Dept. of Electrical Eng., Shahid Bahonar University of Kerman, Iran

خلاصه مقاله:

This paper presents two new methodologies for optimal siting and sizing of distributed generation (DG) in restructured power system for congestion management. The proposed methodologies are based upon LMP and congestion rent that form priority list of candidate buses to reduce solution space. A priority list of buses for optimal placement and for each level of power output of DG is constituted and then optimal sizing of DG is discussed. The proposed methods are illustrated using an IEEE 14-bus Test System. Obtained results show that the proposed methodologies are capable of finding the best location and optimal size for DG installation, which can alleviate congestion in transmission systems.

کلمات کلیدی:

Congestion management; Distributed generation; LMP; OPF

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/89209>

