عنوان مقاله:

Congestion management based on transmission switching

محل انتشار:

کنفرانس ملی فن آوری، انرژی و داده با رویکرد مهندسی برق و کامپیوتر (سال: 1394)

تعداد صفحات اصل مقاله: 6

نویسنده:

Rahmat Aazami - *Assistance Professor, Faculty of Engineering, Ilam University Ilam, Iran*

خلاصه مقاله:

Transmission switching can provide economic benefits compared to other control methods such as generation unit rescheduling or load shedding for contingency management. Transmission switching as a congestion management tool is utilized to change network topology which, in turn, would lead tohiger electricity market efficiency. Considering stability constraint in proposed model avoid the occurrence of transient instability when opening the line in transmission switching Action. A network reduction method based on modified Jacobean AC Newton-Raphson technique power flow consideringswitchable line in technique is used for speeding up the calculation, efficiency and simplicity. To investigate the efficiencyof the proposed strategy IEEE 14 and IEEE 57 bus tests systemare studied. According to the obtained results, this strategy decreases overvoltage in buses and overcurrent in lines considering stability criteria.

کلمات کلیدی:

Transmission switching, congestion management, stability constraint

لینک ثابت مقاله در پایگاه سیویلیکا: