

عنوان مقاله:

Evaluation of Uncertainties Power System to Improve the Market Clearing and Reactive Power of Realistic Distribution

محل انتشار:

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خلاصه مقاله:

Reactive power and voltage control is one of the most important ancillary service that is a very important role in network stability and optimum utilization of market. If the independent power system operators, uncertainties in level of generation, transmission and distribution in order not to be considered reactive power market clearing, events may lead to drastic changes in the reactive power system voltage instability and even resulting network will be off. In this paper, the objective function that are used in the process of reactive power market clearing optimization constraint that they have been reviewed and modified scenarios. Finally to settle right to enter the market despite the lack of definitive reactive activities, NSGA algorithm is presented that the purpose of this algorithm, creating of a compromise between the technical and economic objectives and targets system. This structure introduced by more realistic and reactive power distribution is done in such a way that in case of contingency, interest independent system operator will be better prepared to overcome them, and they were sustain less expenses due Change contracts with market participants.

کلمات کلیدی:

reactive power, uncertainty, NSGA algorithm, market clearing, system reliability

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