

Actions Préventives des Blackouts

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Abstract

The causes of blackout are always multiple and one of them is directly related to the problem of transient stability. The problem of transient stability can be avoided by applying preventive or curative actions. In this article, we present a new preventive method based on the generators least sensitive to perturbations. The inertia constant of these generators is used as an indicator in order to choose the most efficient generators to redistribute the power in order to increase the critical elimination time of the fault. The proposed methodology has been tested on standard test systems the IEEE 30 bus network model.

Keywords: Blackout, Stabilité Transitoire, TEC, TED, contingency, Preventive Action, Internal Angle of generator, Power Systems.

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