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Enhancement of Available Transfer Capability With Integration of Unified Power Flow Controller

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Abstract:

In recent years, Significant increase in the power demand, deregulation, lack of investments in up-gradation of T&D infrastructure, poor in centralized power generation etc. leads to inefficient and unreliable operation of the electric grids. The proper placement and selection of flexible AC transmission devices depending on the network parameters plays key role in addressing above mentioned problems. In this paper UPFC placement is carried out under contingency conditions, to demonstrate the effectiveness of UPFC. The proper rating and placement of UPFC enhances the 60-80% of transfer capability of the existing electric infrastructure. The proposed methodology is tested on IEEE twenty four reliability test system. The obtained result shows effectiveness of UPFC in ATC enhancement.

Published in: 2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT)

Date of Conference: 20-22 January 2022

DOI: 10.1109/ICSSIT53264.2022.9716496

Date Added to IEEE Xplore: 25 February 2022

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