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Effect of Static Synchronous Series Compensator (SSSC) to improve voltage sag and transformer inrush current

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Abstract:

In this paper, the effect of SSSC on voltage sag following transformer inrush current is investigated. Static synchronous Series Capacitor (SSSC) as a dynamic system, besides its capability in increasing power transfer in transmission lines, can be used to enhance different power system issues. Hence, voltage sag as one of the key components of the power quality is alleviated for the sensitive loads that are connected to the same bus which the power transformer is energized from.

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Keywords: Inrush current, SSSC, Voltage sag