

Power Quality Improvement Using Statcom in Ieee 30 Bus System

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Abstract:

Both electrical utility and end users of electrical power are becoming increasingly concerned about the power quality. The term Power quality has become one of the most prolific buzzwords in the power industry now-a-days. In this paper we have discussed the challenges against Power quality and the importance of Reactive Power management in this process. Importance of FACTS devices in reactive power control has been discussed. STATCOM undoubtedly has an upper hand over other FACTS devices like SVC. Load flow analysis of IEEE 30 bus system has been carried out using Newton-Raphson Method with and without STATCOM. Comparative result of Load flow analysis between with and without STATCOM have shown improvement in Power quality with the use of STATCOM in the system.

Keywords: STATCOM, FACTS Devices, SVC, VAR Generators and Power Quality.

1. Introduction

Power Generation and Transmission is a complex process, requiring the working of many components of the power system to maximize the output. One of the main components to form a major part is the reactive power in the system is heavy inductive loads. It is required to maintain the voltage to deliver the active power through the lines. Loads like motor loads and other loads require reactive power for their operation.

Power Quality Improvement Ieee Papers

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