Reactive Power Compensation using STATCOM

IJCA Proceedings on National Conference on Advancements in Alternate Energy Resources for Rural Applications

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AERA 2015 - Number 1

Year of Publication: 2015

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Abstract

Flexible ac Transmission system (FACTS) have emerged in power system because of the development of power electronics components for high voltage and power. The FACTS devices provide higher controllability in power system by means of power electronic devices. The Power quality management is the key issue in electrical power system and industries are facing this issue around the world. There are various methods for improving power quality in power system as Hybrid-filter configuration with PI controllers, Three-Phase programmable voltage source with Discrete PWM generator, Voltage Sag & Swell based on SPWM technique, STATCOM, VSC. The system is modeled by using SIMULINK in MATLAB.
References


Index Terms

Computer Science

Applied Sciences
Keywords
Powerquality  Voltage Source Converter (vsc)  Statcom  Pwm Generator