

عنوان مقاله:

INVESTIGATION ON D-STATCOM AND DVR OPERATION FOR POWER QUALITY IMPROVEMENT IN DISTRIBUTION NETWORK, WITH TWO SPWM AND ISPWM CONTROL TECHNIQUES USING PSCAD/EMTDC

محل انتشار:

ششمین کنفرانس بین‌المللی مسائل فنی و فیزیکی در مهندسی قدرت (سال: 1389)

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خلاصه مقاله:

In this paper, D-STATCOM(Distribution Static Compensator) and DVR(Dynamic Voltage Restorer) have been modelled and implemented in PSCAD/EMTDC and used for voltage regulation and reactive power compensation. Two different control techniques of SPWM(Sinusoidal Pulse Width Modulation) and ISPWM(Inverted Sinusoidal Pulse Width Modulation) have been proposed and used for controlling these custom power devices. Simulation results achieved by each technique have been analysed and compared. It has been shown that using ISPWM technique, reduces the THD of load voltage more than SPWM technique, so improves power quality of the power system, more efficient.

کلمات کلیدی:

D-STATCOM, DVR, ISPWM, SPWM, THDReduction, Custom Power Devices

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