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A Wind - Solar Hybrid System Using Solid State Transformer

M. Gopi

Abstract - Literature reported that a Wind- Solar hybrid system using Solid State Transformer (SST) for reactive power compensation. The proposed hybrid system using SST can effectively suppress the voltage fluctuation. This work deals with the holistic modeling approach of a combined Photovoltaic and Wind power system. The controller system has to be done with fuzzy and sliding mode controller along with SST. This approach enables the design and implementation of efficient controllers for Distributed Energy Resource (DER) hybrid systems.