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MATLAB implementation of standalone hybrid wind-solar power generation with and without dump power control

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Abstract:
In this paper unique approach for standalone hybrid model power generation system is been developed using MATLAB simulink. While implementing this technique advance power control technique which used a four power sources, solar, wind, diesel generator and storage battery is demonstrated which is generally not use in commercial power system. Serious efforts has been put while completing this project for active, reactive and dump power control. The illustrated results in MATLAB shows magnitude and phases of output voltages are regulated if proposed system in implemented. The major advantage of using this system is different generation sources can be easily interconnected. In India there is huge potential for the conventional power generation using wind and sun, if proposed system is incorporated interconnection will be very easy, it will definitely contribute to the global environment.

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