

عنوان مقاله:

Analysis and Optimization of Wind Diesel System

محل انتشار:

دومین همایش داخلی برق (سال: 1393)

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خلاصه مقاله:

Nowadays, renewable energy sources have been attracting great due to the cost increase and adverse environmental impact of fossil fuels. Among the renewable energy sources, wind energy is both more competitive and the fastest growing sources. In this paper, modeling and simulation of Wind Diesel Hybrid system (WDHS) is presented. This system comprising a Diesel Generator (DG), a Wind Turbine Wind Turbine Generator (WTG), the consumer Load, a Ni-MH battery based Energy Storage System (BESS) and a Dump Load (DL). Simulation results with graphs for the frequency and voltage of the Isolated Power System, active powers and the battery power are presented for load and wind speed changes. The simulation results for the BESS/no BESS cases are compared

کلمات کلیدی:

Wind- Diesel System, Energy Storage Unit, Induction Generator

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