



Modeling, Simulation and Control of Wind Diesel Power Systems

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Message from the Guest Editor

Dear Colleagues,

Wind diesel power systems (WDPS) are isolated microgrids that combine diesel generators (DGs) with wind turbine generators (WTGs). WDPS are in many cases the result of adding WTGs to a previous existing diesel power plant located in a remote place where there is an available wind resource. By means of the WTGs supplied power, fuel consumption and CO₂ emissions are reduced. WDPSs are isolated power systems with low inertia where important system frequency and voltage variations occur. WDPS dynamic modeling and simulation allows short-term simulations in order to obtain detailed electrical variables transients, so that WDPS stability and power quality can be tested. This Special Issue of *Energies* is a call for papers mainly on the subject of WDPS dynamic modelling and simulation that take into account factors such as WDPS operation modes simulation, the WTG type used in WDPS, or the use of energy storage systems (ESS). Papers about the sizing of the different WDPS components are also welcome.





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Message from the Editor-in-Chief

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