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Using Matlab/Simulink, the system is modeled and simulated to identify the relevant technical issues involved in the operation of a micro-grid system based on renewable power generation units. Keywords-Micro-grid system, photovoltaic, wind turbine, energy storage, distributed generation, Modeling and Simulation. 1.

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The diesel generator (not simulated) is stopped and the synchronous machine operates as a synchronous condenser with its mechanical power input (Pm) set at zero. The example illustrates the dynamic performance of the frequency regulation

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