

Wind solar hybrid system design

Electric power multiple grids (transmission and distribution).

Hybrid optimization, control and RE power production diagram [4].

Series hybrid RE power system with single AC bus for all AC load [15].

Parallel (hybrid) RE power system with both AC and DC bus plus AC and DC loads [15].

Parallel hybrid RE system with both AC and DC bus for only all AC loads [15].

Hybrid RE three phase output voltage waveforms [30].

Schematic diagram of a grid PV-Wind system.

Simulation models of the two hybrid systems.

Schematic of UV water filtration system.

Image of the designed hybrid system.

Key words: Integrated hybrid system / Solar-Darrieus wind turbine / renewable energy / IoT-based monitoring / efficiency enhancement

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