Algeria microgrid applications

In this study, the algorithms (SFS: Search Stochastic Fractal) and (SOS: Symbiotic Organisms Search) were used for the first time to optimize and design a Microgrid consisting of solar ...

This paper presents a model and simulation for the development of microgrids in remote areas of the Algerian Sahara, including micro power plants, photovoltaic panels, wind farms, diesel energy and ...

The selected site for the proposed hybrid Microgrid system in this study in the city of Biskra, located in the Algerian Sahara, is distinguished by its abundant renewable energy resources and excellent ...

In this work we have designed and simulated a microgrid in real-time situation to propose the best scenario in terms of renewable sources to be installed and ability of the microgrid to operate in island ...

To achieve the optimal configuration of a stand-alone Hybrid Microgrid, this study aims to analyze the economic facets involved in designing a compact hybrid microgrid system that operates ...

In this part, are interested in a scenario of a microgrid in south Algeria, where a wind farm, a photovoltaic park, a diesel generator and storage battery are installed.

Autonomous Microgrids applications for remote locations are mainly achieved for electrification of electrically nonintegrated areas: like islands, and isolated areas as Algerian Sahara.

Real data collected in the Biskra region in the southeast of Algeria, is used. Particle Swarm Optimization algorithm is applied to achieve the optimal size of the hybrid system components through...

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