

On grid hybrid solar inverter in Algeria





Overview

What is a hybrid photovoltaic/wind turbine system?

In Ref 25 a hybrid photovoltaic/wind turbine system has been submitted for the Lafarge cement plant in Al-Tafilah, Jordan. The system is designed to maximize the demand proportion served by the hybrid system at a lower cost of electricity (COE) than the grid tariff.

Can hybrid fuel cells reduce energy costs in Iran?

Moghadam et al. 16 presented a design for energy management of hybrid systems that combine PV, WT, and hydrogen storage (HS) based fuel cell to make the total net cost lower in the northwest region of Iran based on the flower pollination algorithm (FPA).

What is an autonomous microgrid?

The proposed autonomous microgrid is composed of a load, two renewable energy sources namely a photovoltaic system and a wind turbine, a set of batteries as energy storage unit, a diesel generator as backup energy source, and an inverter. Figure 1 illustrates the overall configuration of the autonomous microgrid under study.

Can a hybrid microgrid system be a single objective function problem?

In the literature, some studies 1, 9, treat the Hybrid Microgrid System (HMS) problem as a single objective function problem using the weighted sum approach, by multiplying each of the objective functions by a user-assigned weight. However, this method has the disadvantage of finding only one solution, depending on the weights already provided.



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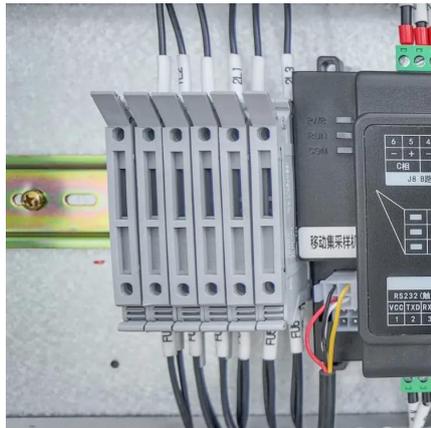
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