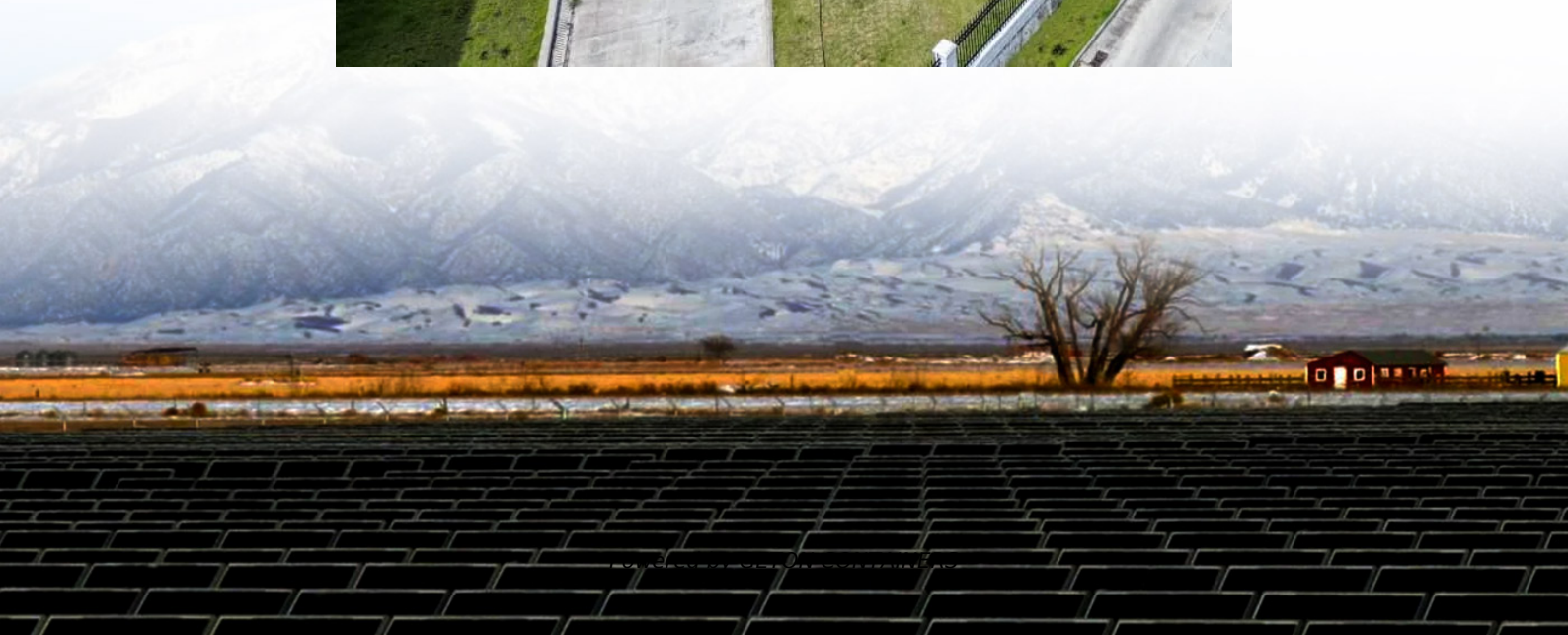


On grid hybrid solar inverter in Algeria





Overview

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 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 a hybrid photovoltaic/wind turbine system?

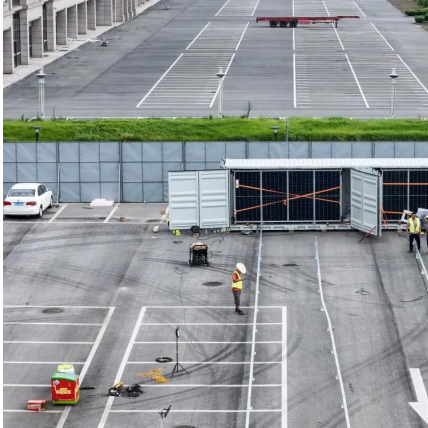
In Ref 25 a hybrid photovoltaic/wind turbine system has been submitted for the Lafarge cement plant in Al-Tafilah, Jordan. The system is designed to maximize the demand proportion served by the hybrid system at a lower cost of electricity (COE) than the grid tariff.

How do I implement a hybrid grid-connected PV_wind system in Simulink?

This implementation requires MATLAB 2018b or a more recent version. This part is the implementation of the Hybrid Grid-connected Pv_Wind system in Simulink (with wind and solar data for January and August, case of Adrar city in Algeria). You only need to open the main slx model file and run the simulation (it takes a while to finish).



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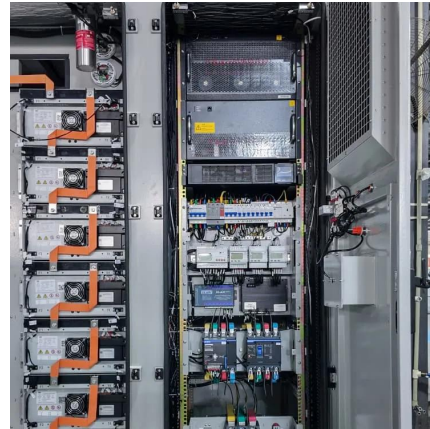


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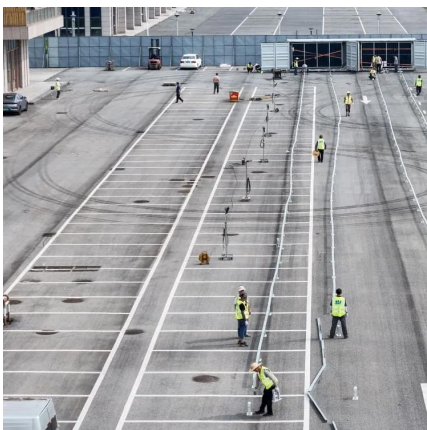
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In the study of Mahmoud et al. 29, the distribution grid is associated with PV/wind/hybrid fuel cells to meet demand, compensate for grid downtime, and minimize the ...

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