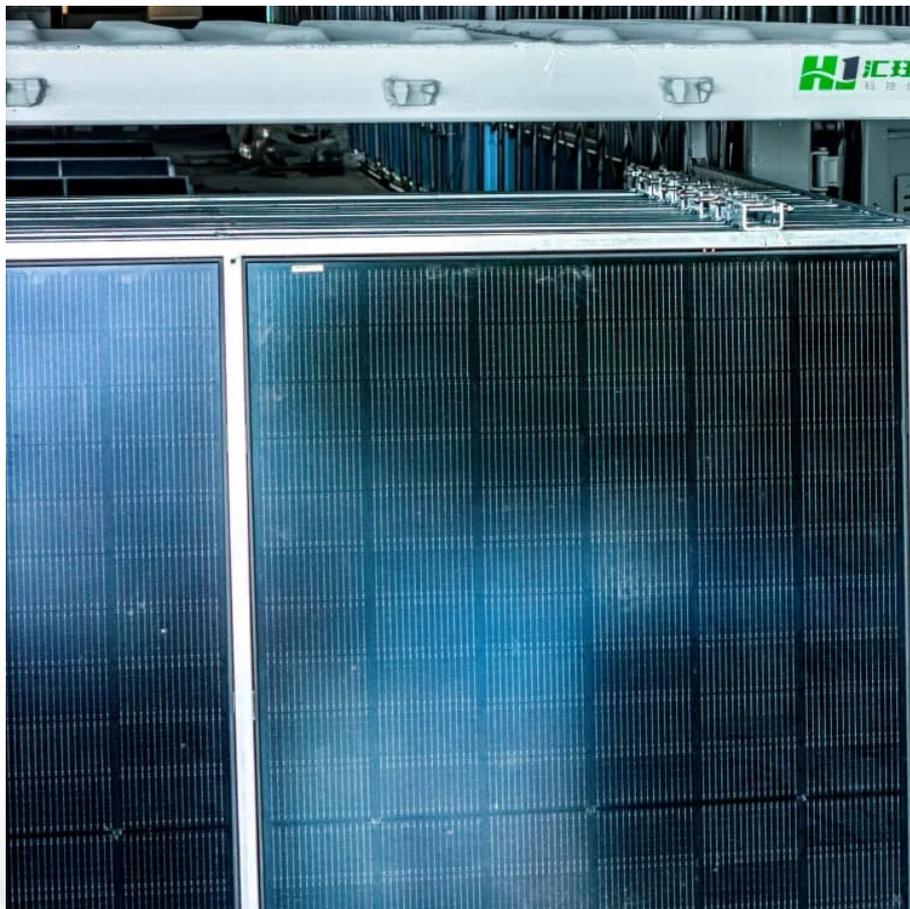


Iraq solar container communication station inverter grid-connected room spot





Overview

Can a solar PV microgrid supply a load during a power outage?

This paper aims to analyze the techno-economic and environmental feasibility of a solar PV microgrid system which is able to supply the load during both grid availability and outage periods. A household in Baghdad was selected as a case study. HOMER software was used to carry out the overall analysis using five different control strategies.

How much solar radiation does Iraq get a year?

Iraq is strategically located in the world's solar belt so it is fortunate to receive large amounts of incident solar radiation more than 3000 h of bright sunshine per year, with average daily sunshine for 11–12 h in summer and 7–8 h in winter. The hourly solar intensity in Baghdad ranges between 416 W/m² in January and 833 W/m² in June.

What is a grid interconnection charge?

A grid interconnection charge of \$100 was applied which is a one-time fee paid by the customers to the utility for permitting the installation of the PV system to the national grid [47].

2.5. System control To control the flow of energy, an overall energy management system is required.

What is the difference between a national grid and a PV array?

The national grid is the main power source in the system, while, the PV arrays supply the load during the daytime only. To measure the cost of energy of the residential buildings, the Ministry of Electricity in Iraq calculates the cost by multiplying the energy consumption by a specific value in Iraqi Dinar.



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