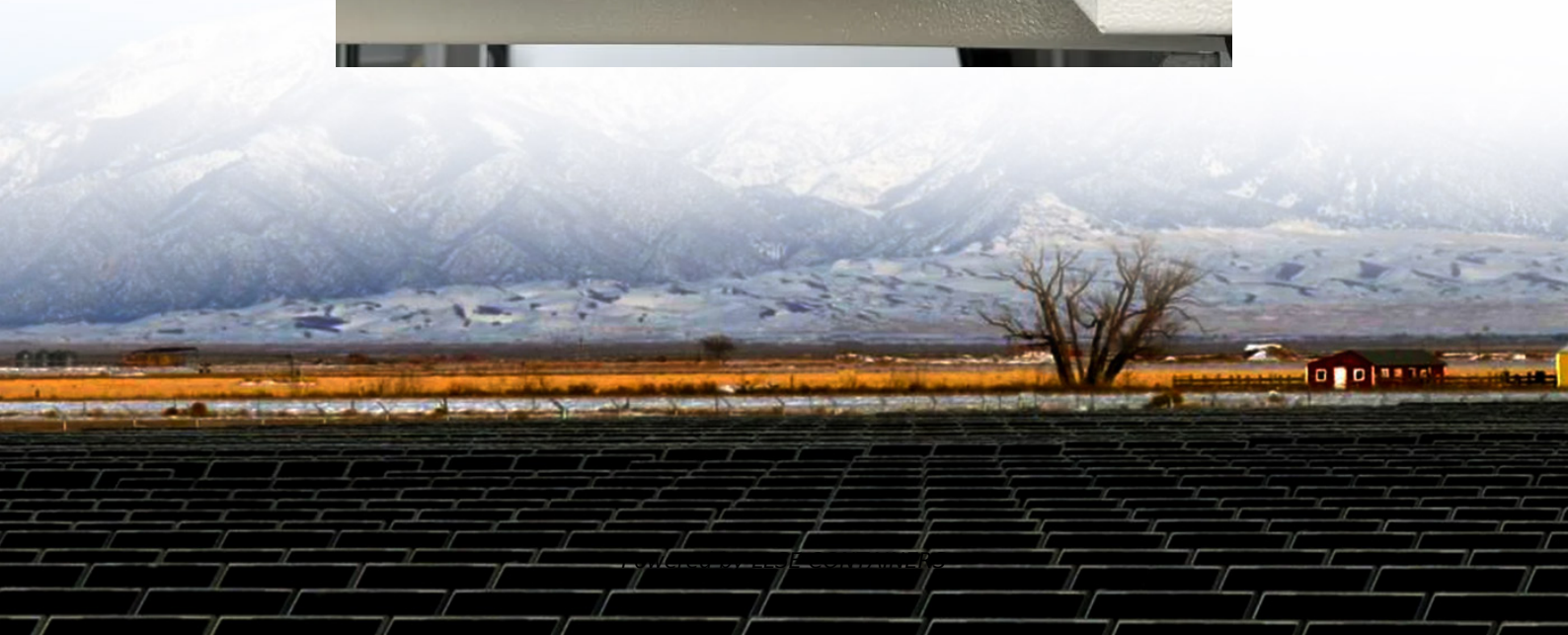


# Iraq Solar Container Grid-Connected Type





## Overview

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Iraq has massive potential for electricity generation from solar energy. Because the country currently suffers from daily electricity shortages, a grid-connected PV system is an unsuitable option since the PV cannot.

Is grid-connected photovoltaic solar system feasible?

In this article, a technical-economic study has been displayed to evaluate the productivity of grid-connected photovoltaic (PV) solar system in a campus of University of Zakho, Iraq. The feasibility of this study is based on performance ratio, capacity factor, cost of energy and yield factor.

What is a grid-connected photovoltaic solar system?

The proposed grid-connected photovoltaic solar systems include PV panels arranged on the roof and an inverter for each building. Currently, a 3.35-MWp PV system has been installed in the campus of University of Zakho.

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

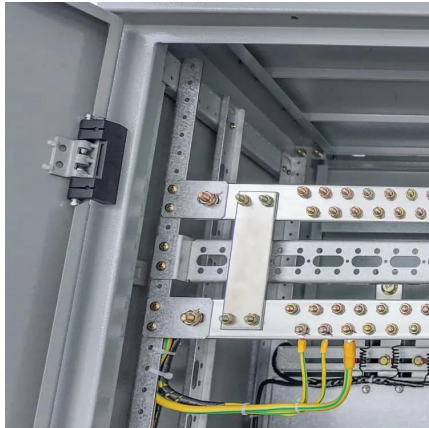
This paper aims to analyze the techno-economic and environmental feasibility of a solar PV microgrid system which is able to supply the load during both grid availability and outage periods. A household in Baghdad was selected as a case study. HOMER software was used to carry out the overall analysis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

Is solar energy suitable for energy production in Iraq?

The intensity of solar radiation is available in all the seasons in Iraq, where the intensity of solar radiation varies from one city to another in Iraq, which makes employing solar energy technology suitable for energy production in Iraq.



## Iraq Solar Container Grid-Connected Type

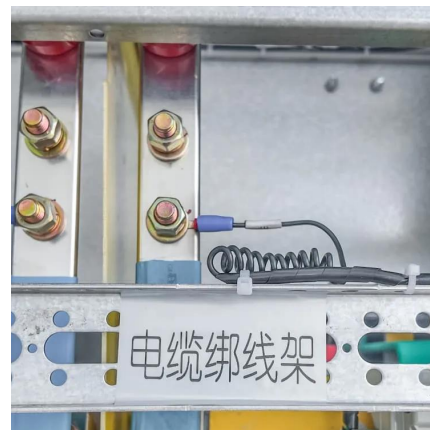


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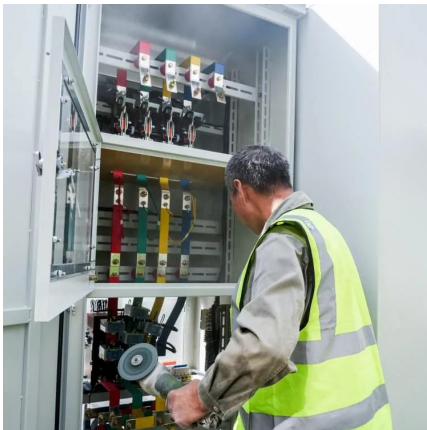
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