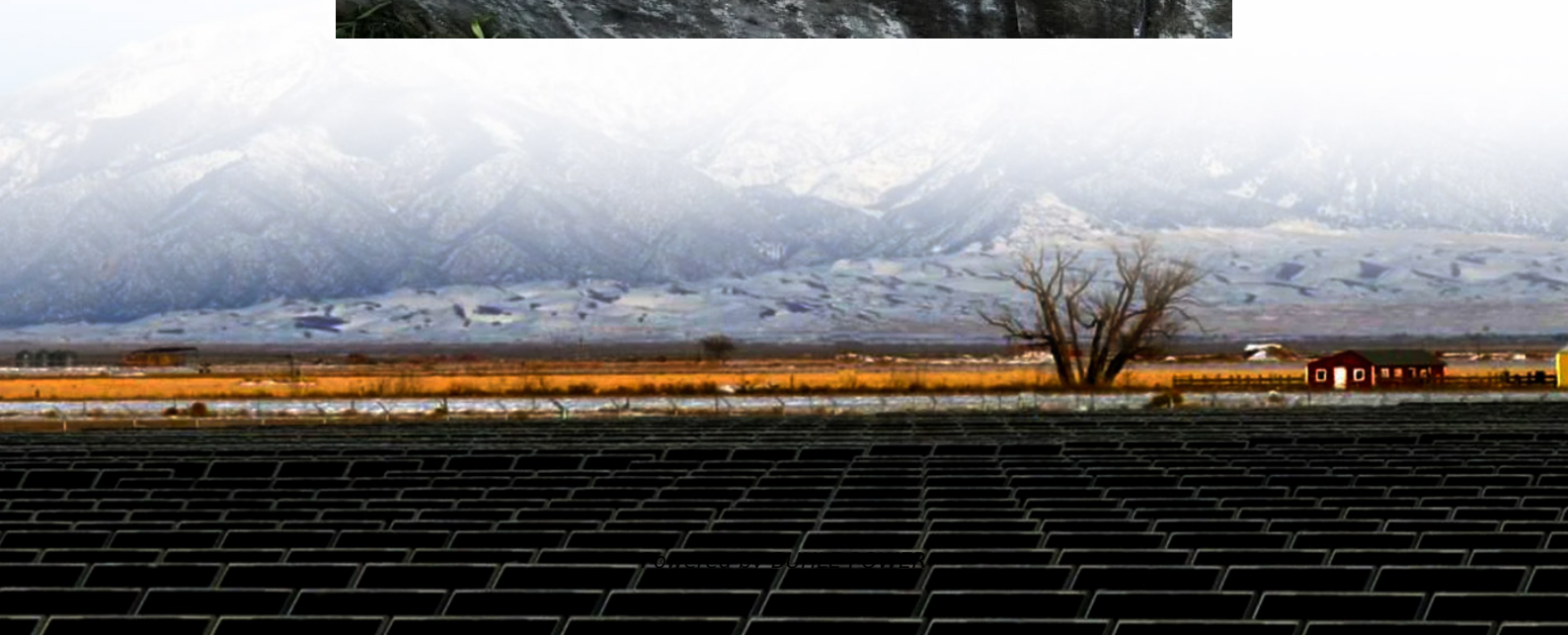


# **Bahrain solar panel use**





## Overview

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Bahrain's key solar initiatives include: planning for a solar farm project on the Askar landfill; delivering 100 megawatts of renewable power; a 50-megawatt initiative to install solar panels on the roofs of hundreds of government-owned buildings, and the potential installation of "floating solar" technologies to be deployed for power generation in Bahrain's territorial waters in order to address the problem of land scarcity for larger solar farms. Is Bahrain transitioning to solar energy projects?

After the establishment of the Sustainable Energy Unit (SEU) in Bahrain in 2014, a radical transition toward launching solar energy projects can clearly be observed. The SEU was established in collaboration between the national government and the United Nations Development Program (UNDP).

What is the barrier to solar panels installation in Bahrain?

The results of the study did not identify a specific item perceived as the barrier to solar panels installation in Bahrain. This is likely due to the relatively new nature of solar panel installation in Bahrain and the participants' lack of clarity on the specifics involved.

Does solar PV affect public perception in Bahrain?

There have been no studies on public perception of solar PV in Bahrain or in any other GCC country to date. In fact, compared with technical studies, there are only a few peer-reviewed studies on the social aspects of solar PV.

How much solar radiation does Bahrain receive?

Bahrain receives approximately 6 kWh/m<sup>2</sup> /day of solar radiation ( Alnaser et al., 2014 ). The country's global horizontal irradiance is 2160 kWh/m<sup>2</sup> /year, while direct normal radiation is 2050 kWh/m<sup>2</sup> /year ( IRENA,, 2014 ). In 2016, the average daily sunshine hours exceeded 10 hours, further emphasizing the potential for solar energy in Bahrain ( IGA,, 2016 ).



## Bahrain solar panel use

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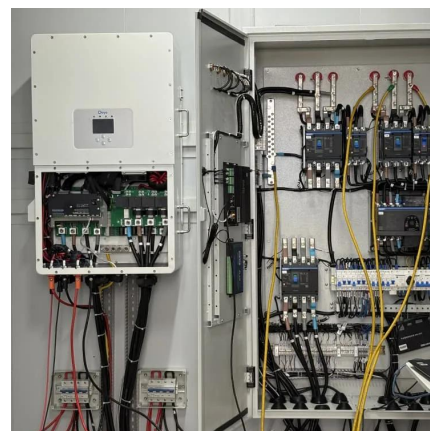


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