

## SolarTech Power Solutions

# Doha Family Solar Energy System Application



## Overview

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Is Hitachi delivering a grid connection solution for Qatar's Al Kharsaah solar power plant?

Hitachi Energy announced it has delivered its grid connection solution for Qatar's Al Kharsaah solar photovoltaic (PV) power plant – one of the world's largest and the country's first utility-scale solar PV park, 80 kilometers west of Doha – which was inaugurated by His Highness Sheikh Tamim bin Hamad Al Thani, Amir of the State of Qatar.

What does the Al Kharsaah solar PV project mean for Qatar?

The Al Kharsaah Solar PV project represents a turning point in Qatar's energy history, and signals the beginning of a broader transition toward renewables that is likely to accelerate in the coming years.

Will Al Kharsaah solar plant reduce Qatar's environmental footprint?

Al Kharsaah solar plant is not only expected to reduce Qatar's environmental footprint but also signals a significant step towards diversifying its energy mix . Qatar's first large-scale solar plant by TotalEnergies consortium signals new energy era .

Why is Qatar launching a solar power plant in 2022?

The plant's inauguration in October 2022 marked a critical moment in Qatar's shift toward renewables, and it is expected to play a key role in the nation's energy transition strategy. Qatar's vast desert landscape, coupled with its abundant sunshine, makes it an ideal location for solar energy development.

What is Al Kharsaah solar?

of Qatar's peak electricity demand covered by Al Kharsaah. Located 80 km west of Qatar's capital, Doha, the Al Kharsaah Solar PV Independent Power Producer (IPP) project is the country's first large-scale solar power plant and is set to significantly reduce its environmental footprint.

How often does Al Kharsaah solar power plant operate?

The system operates every four days, ensuring that the panels remain in optimal condition for power generation. The Al Kharsaah solar power plant has a total capacity of 800 megawatts-peak (MWp), developed in two phases of 400 MWp each.

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EMS real-time monitoring  
No container design  
flexible site layout



Cycle Life  
**≥8000**

Nominal Energy  
**200kwh**

IP Grade  
**IP55**

## Hitachi Energy helps Qatar

## transition towards a more sustainable energy



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## Qatar news agency

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## Doha power energy storage battery , Solar Power Solutions

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