

# **Qatar photovoltaic module project**





## Overview

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Does Qatar have a solar power plant?

Qatar's Al Kharsaah solar power plant is Marubeni's third large-scale solar project in the region, following the company's first two large-scale solar projects in the United Arab Emirates (UAE) and Oman. What does the Al Kharsaah solar power plant mean for Qatar?

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What is Qatar's first large-scale solar power generation project?

This Marubeni investment-backed plant, which was inaugurated on October 18, is the first large-scale solar power generation project in Qatar, with a maximum output of 800 MW. The power generated will be sold to Qatar's General Electricity & Water Corporation Kahramaa under a long-term contract of 25 years.

Where is the first large-scale photovoltaic plant in Qatar?

The first large-scale photovoltaic plant in Qatar is located 80-kilometres west of the capital, Doha. It is developed by TotalEnergies, in partnership with QatarEnergy and Marubeni.

Will a solar power plant decarbonize Qatar's energy mix?

Construction of a solar power plant in Qatar to decarbonize the country's energy mix. Al Kharsaah is the first utility-scale solar power plant in Qatar and will help reduce Qatar's CO<sub>2</sub> emissions while meeting its increasing electricity demand.

Is Qatar a good place to develop solar energy?

Qatar boasts the ideal conditions for developing solar energy with its exceptional sunshine and vast unoccupied spaces. This is where the Al Kharsaah solar power plant, developed by TotalEnergies and its partners



QatarEnergy and Marubeni, was inaugurated in October 2022.

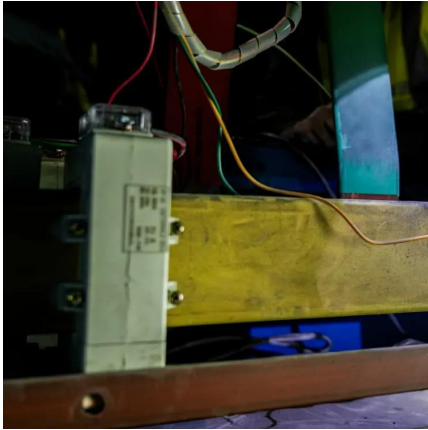
How much electricity does Qatar produce?

In its first year of operation, the plant is projected to generate around two million megawatt-hours (MWh) of electricity, enough to power approximately 55,000 Qatari households. More significantly, once fully operational, the plant is expected to meet 10% of the country's peak electricity demand.



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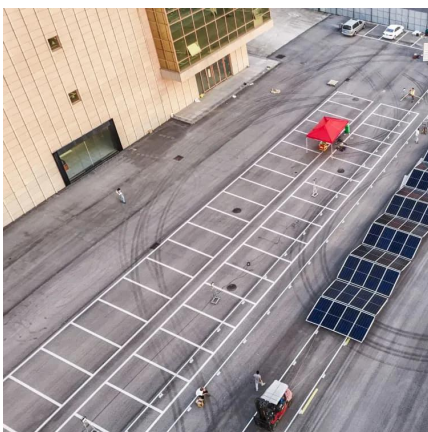


### [Qatar's first large-scale solar plant by TotalEnergies consortium](#)

Covering a massive 1,000 hectares, the Al Kharsaah solar plant is equivalent in size to about 1,400 football fields. It uses two million bifacial solar modules, which are capable of ...

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The Solar Test Facility located at the Science and Technology Park, in Doha (State of Qatar) with different PV technologies installed to study the performance and reliability of PV in Qatar ...



### [Construction of a solar power plant in Qatar to decarbonize the ...](#)

Al Kharsaah project aims to produce clean and affordable energy using the latest cutting-edge technologies in the solar PV industry to reinforce Qatar's National Vision 2030 for sustainable ...

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