

## European Solar and Energy Storage Solutions

# Qatar solar power station dw 1800



## Overview

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

Qatar's first large-scale solar power plant, Al Kharsaah will provide sustainable, affordable and clean energy to industries, services and individuals through the Qatari grid starting from 2021 with an initial 350 MWp capacity before reaching its full capacity in 2022.

Where is the first large scale photovoltaic plant in Qatar?

Located 80 km West of Doha, the Al Kharsaah plant is the first large scale photovoltaic plant in Qatar with 800 MWp installed solar capacity. The plant was constructed on a 1000-hectare terrain, equivalent to approximately 1400 football pitches, and integrates 2 million high-efficiency bifacial modules mounted on single-axis trackers.

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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Where is Al Kharsaah solar power plant located?

The 800MW Al Kharsaah Solar Power Plant, located in the desert area about 80 kilometers west of its capital Doha, is one of the largest in the Middle East. With a total investment of \$417 million, it is the first non-fossil fuel power station in the country endowed with petroleum and natural gas.

What happened at the Al Kharsaah solar plant?

The ceremony marked the completion of the construction works and the startup of the plant, which is now connected to the national grid. Located 80

km West of Doha, the Al Kharsaah plant is the first large scale photovoltaic plant in Qatar with 800 MWp installed solar capacity.

Who owns Qatar power plant?

The power plant has been developed and is operated by Siraj 1, which is jointly owned 40% by the Consortium formed by TotalEnergies (49%) and Marubeni (51%) and 60% by QatarEnergy Renewable Solutions. The project includes a 25-year Power Purchase Agreement between Siraj 1 and the power grid operator Kahramaa.

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### **Qatar Aims For 30% Solar Power In Electricity Mix By 2030 For**

Qatar plans to boost solar power to 30% of its electricity production by 2030 as part of a sustainable energy transition. Learn about the initiatives and projects, including the Al Kharsaah Solar PV Power Plant, driving this shift towards renewable energy in Qatar.

### **Qatar Al-Kharsaah Solar Power Plant**

An aerial view of the Al-Kharsaah Solar Power Plant. The Al-Kharsaah Solar Power Plant, developed in the Al-Kharsaah area of western Qatar on a 10-square-kilometer area of land, is the country's first non-fossil fuel power plant and currently the world's third-largest single-unit photovoltaic power project.



### **TotalEnergies announces the startup of Al Kharsaah (800 MWp), ...**

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## Al Kharsaah, A Pioneering Solar Power Plant in Qatar

The Al Kharsaah solar power plant covers 1,000 hectares (the equivalent of approximately 1,400 soccer fields) and features two million bifacial solar modules mounted on trackers for achieving substantial power gains.



## QatarEnergy unveils plan to build 2GW solar power in Qatar

The Minister of State for Energy Affairs, the president and CEO of QatarEnergy Saad Sherida Al-Kaabi stated: "I am pleased to announce that, in line with our sustainability strategy, we will more than double our solar power production capacity to about 4,000 megawatts by 2030 through the world-scale, 2,000-megawatt Dukhan solar power plant."

## Qatar inaugurates the 800 MW Al Kharsaah solar power plant

Qatar has inaugurated the 800 MW Al Kharsaah solar power plant, located near the Al Kharsaah village in central Qatar, about 80 km west of Doha. The US\$467m solar park is set to generate about 2 TWh/year and meet 10% of Qatar's peak electricity demand at full capacity. The inauguration marked the completion of the construction works and the startup of ...



## Samsung C& T to build mega solar power project in Qatar

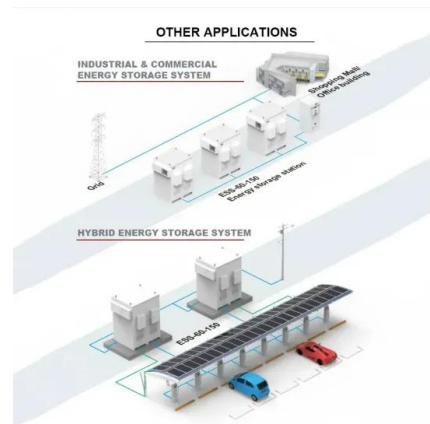
With the climate crisis and the growing importance of energy security, investment in green power infrastructure is increasing. Solar



energy is one of the most important renewable energy resources. In 2021, solar energy, together with wind, accounted for 10.3% of worldwide electrical generation. In 2021, 168 Gigawatts (GW) of new photovoltaic capacity ...

## Qatar's First Large-Scale Solar Power Plant

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 ...



## Total to develop Qatar's First Large-Scale (800 MWp) Solar Plant

Qatar's first large-scale solar power plant, Al Kharsaah will provide sustainable, affordable and clean energy to industries, services and individuals through the Qatari grid starting from 2021 with an initial 350 MWp capacity before reaching its full capacity in 2022.

## QatarEnergy unveils 2 GW solar project , Solar Power News

With the new Dukhan solar power plant, QatarEnergy's solar power portfolio in Qatar will grow to nearly 4 GW by 2030, making up about 30% of the country's total electricity generation

capacity. In 2022, QatarEnergy launched the nation's first large-scale solar park -- the 800-MWp Al Kharsaah complex which is capable of producing enough



## Qatar Aims For 30% Solar Power In Electricity Mix By ...

Qatar plans to boost solar power to 30% of its electricity production by 2030 as part of a sustainable energy transition. Learn about the initiatives and projects, including the Al Kharsaah Solar PV Power Plant, ...

## TotalEnergies opens Al Kharsaah solar power plant in ...

The solar project includes a 25-year power purchase agreement (PPA) between Siraj 1 and the power grid operator Kahramaa. In August this year, TotalEnergies and Eneos obtained clearance to form a joint ...



## Qatar's First Large-Scale Solar Power Plant

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## Japan, Korea Groups Will Build 2.4-GW Gas-Fired Power Plant in Qatar

The Doha plant is the first power project in Qatar for Sumitomo, and the second for Shikoku Electric, which also was part of the 2,730-MW Ras Laffan C Water and Power Project in Al Khawr. Ras



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## Qatar inaugurates first solar plant built by Chinese firms

With a total investment of \$417 million, it is the first non-fossil fuel power station in the country endowed with petroleum and natural gas. As Qatar's first large-scale ground solar power plant connected to the grid at full capacity, the Al Kharsaah project can meet 10 percent of the country's peak electricity demand.



## Al Kharsaah Solar Power Project, Qatar

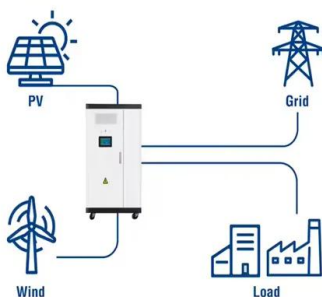
The solar power plant was developed in the Al-Kharsaah area on a 10km<sup>2</sup> of land, located 80km west of Doha, Qatar. The plant uses 1.8 million bifacial solar modules with trackers, which benefit from the high level of sunlight available in the area.

## Qatar: TotalEnergies announces the startup of Al ...

Located 80 km West of Doha, the Al Kharsaah plant is the first large scale photovoltaic plant in Qatar with 800 MWp installed solar capacity. The plant was constructed on a 1000-hectare terrain, equivalent to approximately ...



### Utility-Scale ESS solutions



## Total to develop Qatar's First Large-Scale (800 MWp) Solar Plant

Total has entered into agreements for the development of the Al Kharsaah Solar PV IPP Project, a 800 megawatt-peak (MWp) solar plant that will be located 80 kilometers west of Doha, Qatar. The project was awarded to a consortium of Total (49%) and Marubeni (51%) as the result

of the country's first solar tender.

## **Qatar: TotalEnergies announces the startup of Al Kharsaah (800 ...**

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## **Qatar's First Large-Scale Solar Power Plant**

The Al Kharsaah solar power plant in Qatar has gotten off to a sunny start! The Marubeni investment-backed plant was inaugurated in October. What does the Al Kharsaah solar power plant, as well as Marubeni's strategy to become a forerunner in green business in its mid-term management strategy GC2024, aim to provide for the future?



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