

Doha Solar Power Station System





Overview

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. Will Qatar build a solar plant in Dukhan?

Qatar invests in renewable energy, building a solar plant in Dukhan. (Credit: QatarEnergy) Qatar's future is looking solar with a new solar plant project on the way. The country's first large-scale solar power plant, Al-Kharsaah Solar PV Power Plant, covers an area of 10 square kilometres.

Does Qatar need a solar power plant?

Qatar's future is looking solar with a new solar plant project on the way. The country's first large-scale solar power plant, Al-Kharsaah Solar PV Power Plant, covers an area of 10 square kilometres. The 800 megawatt (MW) plant was inaugurated in October 2022 to support Qatar's electricity demand for FIFA World Cup Qatar 2022™.

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

The country's first large-scale solar power plant, Al-Kharsaah Solar PV Power Plant, covers an area of 10 square kilometres. The 800 megawatt (MW) plant was inaugurated in October 2022 to support Qatar's electricity demand for FIFA World Cup Qatar 2022™. You might also like: Qatar to build one of the world's largest solar power plants.

What is Al Kharsaah solar power project?

The 800MW Al Kharsaah photovoltaic (PV) power project is Qatar's first large-scale solar power plant. The solar power project helps in reducing Qatar's reliance on gas for power generation. Credit: Kahramaa. The 800MW Al Kharsaah solar power project was inaugurated in 2022. Credit: Sungrow Power Supply Co.



Doha Solar Power Station System



[Al Kharsaah Solar Power Project, Qatar](#)

Al Kharsaah Solar Power Project Development
Al Kharsaah Power Project Location and
Details
Power Purchase Agreement
Contractors Involved
Marubeni's Renewable Energy Projects in
The Mena Region
The solar power plant was developed in the Al-Kharsaah area on a 10km² 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. The Al-Kharsaah solar power project applies the latest solar energy technologies, including dual panel See more on power-technology energystoragecabinet

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...

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[Qatar Be Solar Program: Impressive Start in 2025](#)

9 hours ago · The 'Be Solar' service complements larger utility-scale projects, such as the recently announced 5 MW solar project in Qatar, showcasing a multi-faceted approach to green ...



[Al Kharsaah Solar Power Project, Qatar](#)

Nov 17, 2023 · The 800MW Al Kharsaah



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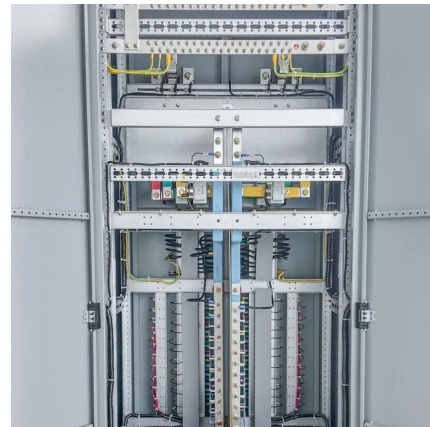


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Nov 10, 2024 · It said the project involves "development and upgrading of steam boilers, thermal units control system and auxiliary system at Doha ...



[Siraj-1 Photovoltaic Solar Power Project, Al ...](#)

Aug 4, 2020 · The Siraj-1 solar power plant, also known as the Al Kharsaah solar power plant, is an 800MW solar power facility being developed in Al ...

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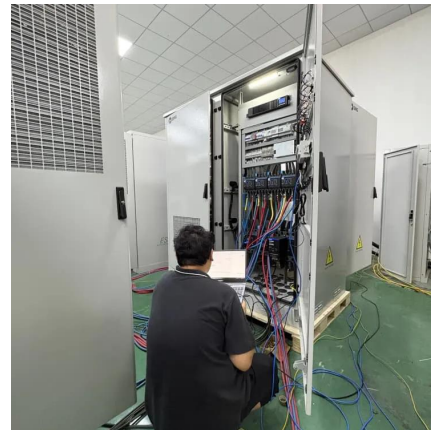


[QatarEnergy to build 2 GW solar plant](#)

Sep 2, 2024 · QatarEnergy, a state-owned petroleum company, is set to construct a 2 GW solar facility in the city of Dukhan, Qatar. Qatari Energy ...

[Solar Panel Doha, 10KW Solar System Price, ...](#)

Nov 27, 2025 · MARS SOLAR have 10+years solar power system manufacturers experience for 10KW Solar Panel Doha product. More than ...

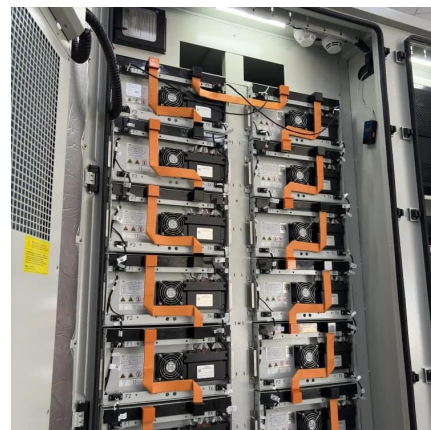


Al Kharsaah Solar

May 8, 2025 · Al Kharsaah Solar (???? ??????? ?????? ????????, ???? ??????? ?????? ???????) is an operating solar photovoltaic (PV) farm in Al-Kharsaah, Doha, Qatar.

[QatarEnergy unveils plan to build 2GW solar ...](#)

Sep 2, 2024 · Qatari state-owned petroleum company QatarEnergy has unveiled plans to build a new 2GW solar power project in Qatar's Dukhan ...





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[QatarEnergy announces new 2,000 megawatt ...](#)

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Oct 20, 2022 · The Al Kharsaah solar power plant in Qatar has completed construction, been started up and connected to the country's national ...



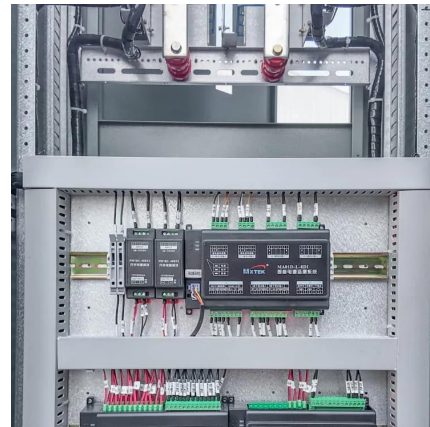


[Qatar: TotalEnergies announces the startup of Al Kharsaah ...](#)

Paris, Doha, 18 October 2022 - The Al Kharsaah solar power plant developed by TotalEnergies and its partners QatarEnergy, and Marubeni was inaugurated today by His Highness Sheikh ...

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Hitachi Energy helps Qatar transition towards a more sustainable energy

Dec 3, 2025 · 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 ...

[Qatar 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 ...





[Qatar expands solar power capacity to meet QNV 2030 goals](#)

Aug 18, 2025 · The first and flagship project, Al-Kharsaah Solar Power Plant, located west of Doha, covers 10 square kilometres and consists of nearly 1.8 million solar panels.

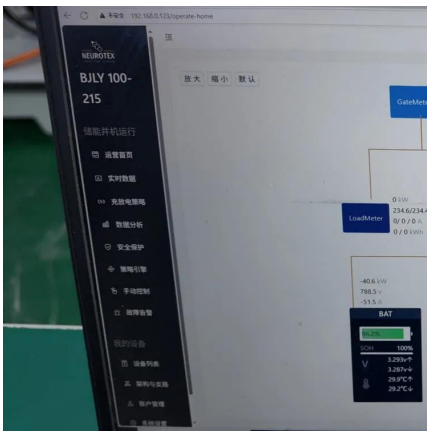
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