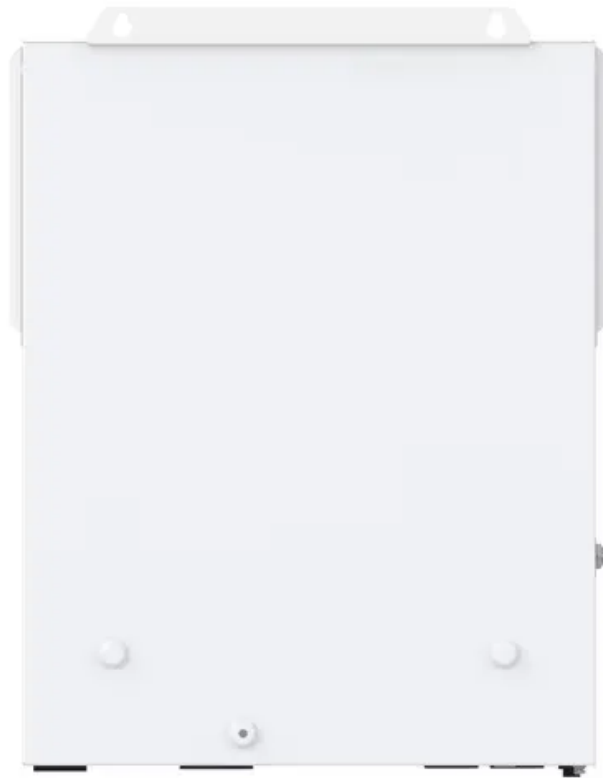


**Solar Energy South Africa**

**Independent solar Qatar**



## Overview

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Total and Marubeni won the solar project through a competitive tender process. Kahramaa received five competitive bids for project development. Total, Siraj Energy and Marubeni formed a special purpose compa.

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, whi.

In January 2020, Kahramaa signed a 25-year power purchase agreement with Siraj 1 to procure electricity from the power plant. Kahramaa is Qatar's transmission and distribution syste.

Kahramaa hired consulting firm EY as lead and financial advisor. DLA Piper served as legal advisor while Poyry Switzerland, a consulting and engineering company, provided technic.

Marubeni is strategically shifting from coal-fired power generation to the renewable energy generation business. In September 2018, the company pledged not to develop new coal-fired po.

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?

.

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.

Why should Qatar invest in a solar power plant?

The power plant can supply 10% of the country's peak energy consumption and help to avoid 26 million tonnes of carbon emissions over its operational life. It also reduces the reliance on gas for power generation, diversifying Qatar's power sources. Total and Marubeni won the solar project through a competitive tender process.

What's happening at Al Kharsaah solar power plant in Qatar?

The Al Kharsaah solar power plant in Qatar has been constructed, started up, and connected to the country's national grid.

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.

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.

## Independent solar Qatar



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

Paris - 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 ...



### [Qatar Solar Energy secures silicon deal](#)

Qatar Solar Energy (QSE) says that a "landmark" deal with Kazakhstan's Kazatomprom will help it to expand its solar module production capacity. Under the agreement, Kazatomprom will supply QSE with solar-grade silicon - the raw material used to make solar panels - at a fixed cost for ten years.

## QatarEnergy awards EPC contract for its 875 MW solar

## project in Qatar

The IC solar project is Qatar's second utility-scale solar project after the 800 MW Al Kharsaa Solar PV Independent Power Plant, which is currently under construction. Overall, the IC solar project is expected to increase Qatar's solar energy capacity to 1.675 GW, as the country is targeting 5 GW of solar generated power by 2035. At the end



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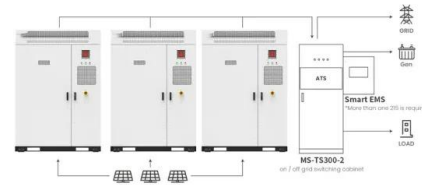
## QatarEnergy awards EPC contract for 875-MW solar duo

"This IC Solar project is a major step in the implementation of our strategy to diversify Qatar's energy resources and to increase the reliance on high-efficiency renewable energy, which is a cornerstone for a sustainable future," said the Minister of State for Energy Affairs and

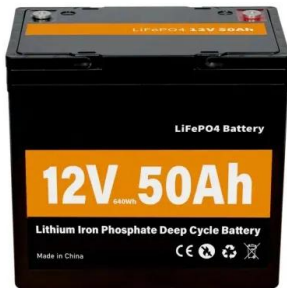
QatarEnergy chief executive Saad Sherida Al-Kaabi.

## QatarEnergy Awards Contract To Build 2 Solar Power

This is the second utility-scale solar project in Qatar. Along with Al Kharsaa Solar PV Power Plant, which is currently under construction, the IC Solar project will increase Qatar's renewable energy generation capacity to 1.675 GW by 2024. The project will utilize high-efficiency bifacial modules mounted on single-axis trackers as well as



Application scenarios of energy storage battery products



## Al Kharsaah: Groundbreaking Solar Power Plant in ...

In the heart of the Arabian Peninsula, solar power nestled 80 kilometers west of Qatar's bustling capital, Doha, lies the remarkable Al Kharsaah Solar PV Independent Power Producer (IPP) project. This visionary initiative ...

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company which provides renewable energy solutions for a wide range of different applications. We provide solutions for building integrated systems in residential and industrial sector, rural electrification as well as off-grid and on-grid power plants.

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### Applications



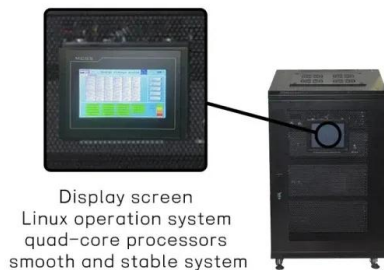
## TotalEnergies opens Al Kharsaah solar power plant in Qatar

French energy company TotalEnergies has inaugurated its Al Kharsaah solar facility in Doha, Qatar, and connected it to the national grid. Located 80km west of Doha, the 800MW solar facility is the first large-scale solar photovoltaic

...

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

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.



## Al Kharsaah: Groundbreaking Solar Power Plant in Qatar

In the heart of the Arabian Peninsula, solar power nestled 80 kilometers west of Qatar's bustling capital, Doha, lies the remarkable Al Kharsaah Solar PV Independent Power Producer (IPP) project. This visionary initiative marks Qatar's inaugural foray into large-scale solar power generation, poised to usher in a new era of sustainable energy and significantly reduce ...

## Commencement of Independent Water and Power Project in Qatar...

Qatar has ratified the Paris Agreement, and through the Qatar National Renewable Energy Strategy issued by Kahramaa, plans are underway for the retirement of aging power plants by establishing new gas-fired power plants. The introduction of solar power and Carbon Capture, Utilization and Storage (CCUS)\*4 is also in the pipeline.



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

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 ...

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

Paris - 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. "We are proud to pioneer the ...



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

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. Al Kharsaah is owned and operated by SPV Siraj, a consortium formed by TotalEnergies and Marubeni (40%) and Siraj Energy (60%), ...



## Qatar's first large-scale solar plant by TotalEnergies consortium

Located 80 kilometers west of Doha, the Al Kharsaah Solar PV Independent Power Producer (IPP) project is a game-changer for Qatar's energy landscape. As the country's first large-scale solar power plant, Al Kharsaah is not only expected to reduce Qatar's ...

## Towards Energy Independence: Kahramaa Reveals Qatar's

The QNRES aims to boost the utilization and diversification of renewable energy sources, particularly solar energy, in Qatar's energy mix, leveraging the country's abundant solar resources. It sets a target to increase large-scale renewable power generation to approximately 4 GW by 2030, along with recommending the installation of



## Independent Solar: 2024 Expert Review , BestCompany

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vertically integrated solar company, meaning that the company doesn't outsource any aspect of the solar process to third parties; all Independent Solar system projects are on-boarded, installed, and serviced in-house.

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