

# **Qatar complete solar power**





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### 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 Electricity & Water Corporation Kahramaa under a long-term contract of 25 years.

### 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.



#### APPLICATION SCENARIOS



### Al Kharsaah Solar Power Project, Qatar

The Al-Kharsaah solar power project applies the latest solar energy technologies, including dual panels, to save space and optimise electricity production by capturing the direct sun rays, as well as the rays reflected on the ground.

### Largest solar power stations in Qatar

Here is a list of the largest Qatar PV stations and solar farms. Get to know the projects' power generation capacities in MWp or MWAC, annual



power output in GWh, state of location and exact location on the map, name of developer, year of connection to the electric grid, land size occupied, and other interesting facts.



### Construction of a solar power plant in Qatar to decarbonize the ...

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. The plant is expected to generate almost 2,000,000 MWh of electrical energy, the equivalent energy consumption of approximately 55,000 Qatari households, while avoiding 26 million

### QatarEnergy To Build World's Largest Solar Power Plant, Doubling Qatar ...

QatarEnergy announces the construction of a new 2,000 MW solar power plant in Dukhan, set to more than double Qatar's solar energy capacity to 4,000 MW by 2030. The initiative aims to significantly cut CO<sub>2</sub> emissions and enhance sustainability.



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

The Al Kharsaah solar power plant has a total capacity of 800 megawatts-peak (MWp), developed in two phases of 400 MWp each. 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



### QatarEnergy to Double Qatars Solar Power Production Capacity ...

With the addition of the new Dukhan Solar Power Plant, QatarEnergys portfolio of solar power projects in Qatar will reach a capacity of about 4,000 megawatts by the year 2030. This represents approximately 30% of Qatars total electrical power production capacity.



### Solar Energy in Qatar

Qatar's solar energy future is steadily developing. With average daily sunshine of around 9.5 hours, low-cloud cover conditions and plentiful space, there is great scope for small, medium as well as large-scale solar power projects in the country.



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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.



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