



# Use solar energy Qatar

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.

Why is Qatar launching a solar power plant?

The start-up of the Al Kharsaah solar power plant represents a milestone in the country's energy history, since it is set to produce 10% of its peak electricity demand at full capacity. Over its lifespan, it will also enable Qatar to reduce its CO<sub>2</sub> emissions by 26 million metric tons.

Why should Qatar invest in solar energy?

Solar energy has multiple advantages for Qatar in the form of energy security, improved air quality, reduced GHG emissions, employment opportunities, apart from augmenting water and food security.

What is Qatar's Solar Energy Future?

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.

Is Qatar a sustainable country?

By 2030, Qatar aims to produce 18% of its power generation from renewable sources, a significant leap from the current 5%. This ambitious target reflects the country's commitment to sustainability and aligns with the goals set out in the National Development Strategy 2024-2030.

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.

Qatar aims to increase renewable energy production from 5% to 18% by 2030, focusing on solar power due to high solar irradiance levels. The strategy targets 4 gigawatts from centralized renewable energy projects and 200 megawatts from distributed projects by 2030.

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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The strategy, introduced by Qatar General Electricity and Water Corp., known as Kahramaa, aims to diversify and increase the use of renewables, especially solar energy, in the Gulf state and integrate it into the electricity mix, Kahramaa said as cited by the state-owned Qatar News Agency (QNA).

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