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Qatar installs solar energy storage project



Overview

QatarEnergy has signed an agreement with TotalEnergies to build the Dukhan Solar Project, a 1.6 GW project that will more than double Qatar's solar capacity by 2029. What is QatarEnergy's new solar power mega project?

QatarEnergy has announced a groundbreaking initiative to significantly expand Qatar's solar energy capabilities. The company will construct a new solar power mega project in the Dukhan area, aiming to double the State of Qatar's solar energy production.

What is Qatar's largest solar power project?

Samsung C&T E&C Group has been awarded the contract for Qatar's largest solar power project, underscoring its growing leadership in renewable energy infrastructure. Commissioned by QatarEnergy, the 2,000MW Dukhan Solar Power Project represents the largest capacity solar facility ever undertaken by a Korean construction company.

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 CO₂ emissions by 26 million metric tons.

How big is Qatar's Solar power plant?

This ambitious project will establish one of the world's largest solar power plants with a production capacity of 2,000 megawatts (MW), boosting Qatar's

total solar power capacity to approximately 4,000 MW by 2030.

How many solar panels does Qatar have?

Spanning 27□—equivalent to 3,790 football fields—the massive site will be fitted with 2.74 million solar panels. Upon completion in 2030, the plant will generate enough electricity to power approximately 750,000 households, even considering Qatar’s high per-capita energy use.

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