

How many solar projects are there?

There are more than 8,200 major solar projects currently in the database, representing over 347 GWdc of capacity. There are over 1,350 major energy storage projects currently in the database, representing more than 108,000 MWh of capacity. The list shows that there are more than 185 GWdc of major solar projects currently operating.

How has the solar energy landscape changed in 2025?

The global solar energy landscape has undergone a remarkable transformation in 2025, with mega solar projects now spanning thousands of acres and generating enough clean electricity to power entire cities.

Will solar power and wind power grow in 2027?

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027.

Will solar power grow in 2025?

We expect that solar electricity generation supplied to the grid managed by the Electric Reliability Council of Texas (ERCOT) will grow from 56 BkWh in 2025 to 106 BkWh by 2027. Increasing amounts of battery storage capacity help to support the fluctuations in solar output during the day.

The project will convert solar energy into thermal power during the day, enabling stable power generation for up to eight hours during nighttime.

There are over 1,400 major energy storage projects currently in the database, representing more than 116,300 MWh of capacity. The list shows that there are more than 195 GWdc of major solar projects ...

Almost three-quarters of all solar and wind power projects being built globally are in China, says a new report that highlights the country's rapid expansion of renewable energy sources.

International Energy Agency (IEA) statistics estimate that global solar PV capacity increased by nearly 50% to almost 510GW in 2023 -- the fastest growth rate in the past two ...

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The project has pioneered an innovative new model that demonstrates how PV power generation can be combined with other income-generating activities to make optimal use of available ...

On December 13, 2024, the highest solar thermal energy storage ratio project in China, the China General Nuclear (CGN) Delingha 1 million kilowatt solar thermal energy storage integrated project, ...

Discover the world's biggest operational solar farms and the mega projects set to reshape tomorrow's renewable energy landscape.

Discover the world's largest solar farms in 2025. Complete rankings, capacity data, locations, and analysis of mega solar projects transforming global energy.

Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). Growth in utility ...

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