

Saudi Arabia wind solar energy and thermal energy





Overview

How much solar power does Saudi Arabia have?

The kingdom had about 4.34 gigawatts of solar capacity as of the end of 2024, according to the Energy Institute's latest Statistical Review of World Energy, but wants to have up to 130GW of solar and wind capacity by the end of the decade. Almost all of Saudi Arabia's electricity is currently supplied by oil and gas-fired power plants.

Is Saudi Arabia a good country for solar energy?

Indeed, Saudi Arabia has been ranked the 6th in solar energy potential. Saudi Arabia's Ministry of Energy is advancing its National Renewable Energy Program with a \$50 billion plan aimed to develop 30 solar and wind projects by 2030. This effort aims to increase electricity generation and reduce oil dependency.

Is wind power a viable option in Saudi Arabia?

Wind power technology is expected to rise rapidly in many countries in the future, including Saudi Arabia (KSA). Several government-funded projects have been initiated to reduce crude oil consumption and control CO2 emissions.

Why is Saudi Arabia deploying solar energy?

Saudi Arabia is deploying solar energy at a faster rate than any country in history. This new, clean electricity will not only decarbonize the country's grid, but it will also help to decarbonize the factories and transport systems of Europe and the Far East, by producing and exporting green hydrogen made from water and renewable electricity.



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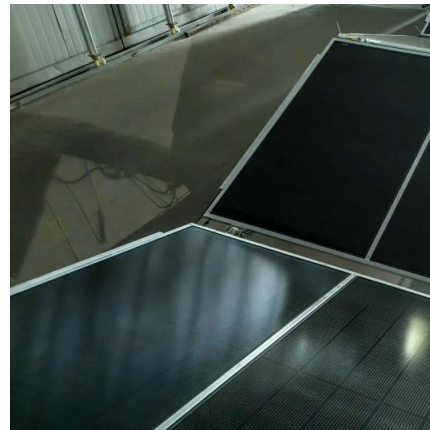


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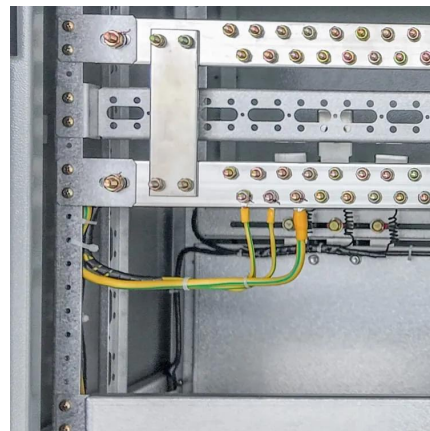
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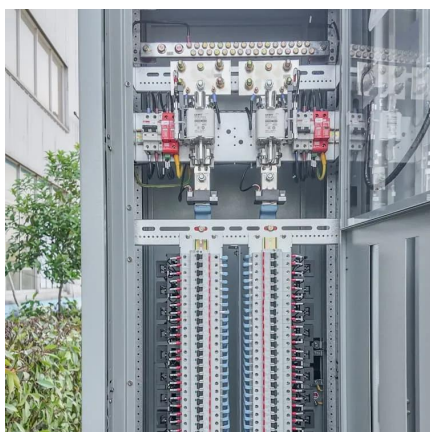
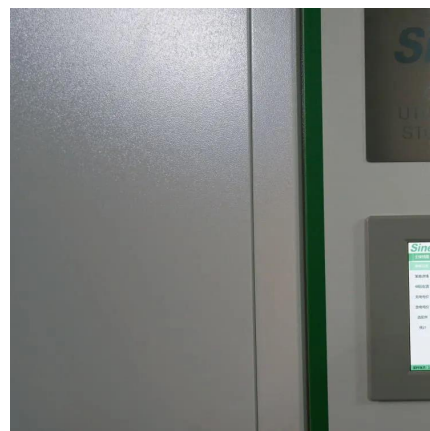


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