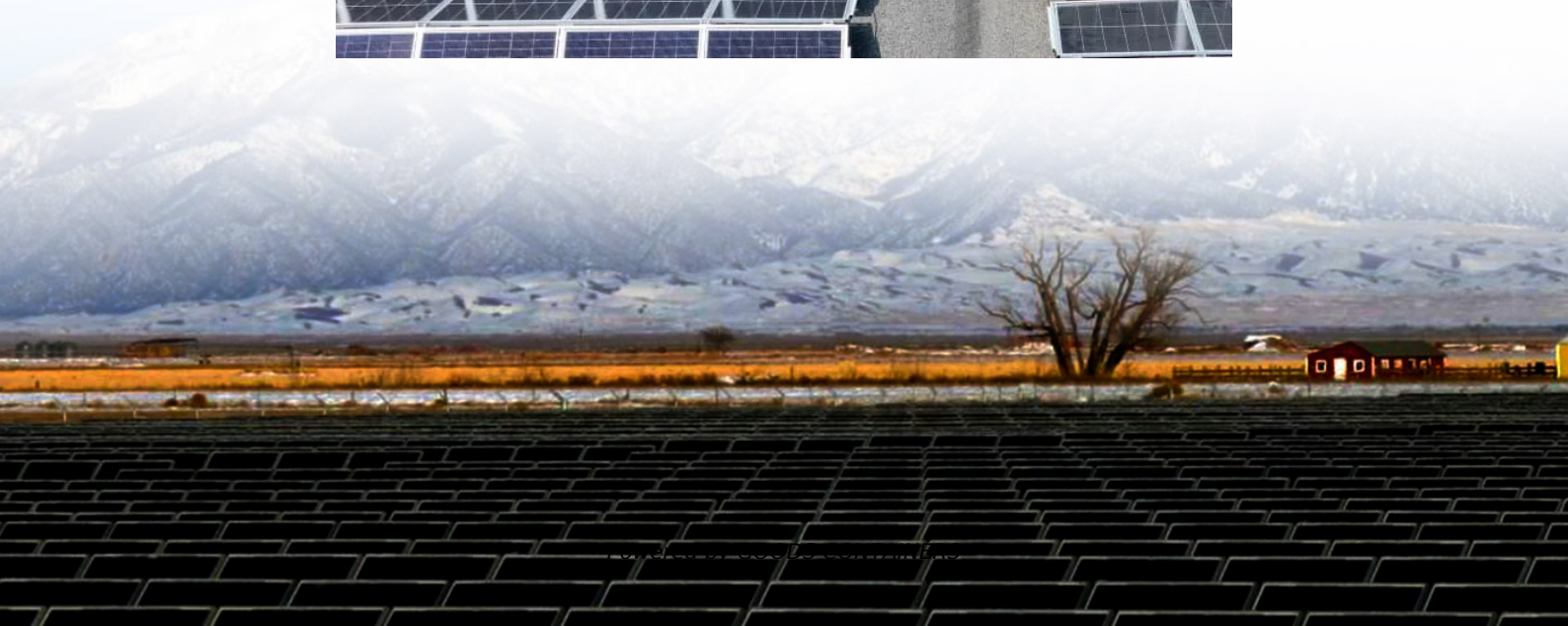


Algerian wind power generation system





Overview

During a speech at the 2nd international workshop on renewable energy in Algiers, Algerian Ministry of Energy, Mines and Renewable Energy, Noureddine Yassaa, highlighted that Algeria is working to integrate wind energy into its future renewable energy projects, adding that “in collaboration with the World Bank, we are currently studying the launch of a 1,000-megawatt wind power project across 10 promising sites.” Should Algeria invest in wind energy?

The Algerian government has established an attractive policy to encourage investment in the wind energy by installing 5 GW of wind power by 2030. It has focused on collaborations and calls for investment from outside wind energy companies. However, this energy sector development requires the identification of potentially windy sites.

Where is wind energy potential located in Algeria?

Apart from the El Golea region, more interesting wind energy potential is located in the southern part of Algeria. For the coastal zones and the high plains, the sites with wind energy potential up to 100 W/m² are located in the western part of the country.

How much does a wind turbine cost in Algeria?

From IRENA 's renewable energy cost report in 2021, the price of installing a wind turbine is \$1892 /kW in Algeria. Additionally, the yearly industry practices. These costs amount to \$199,218,885. With the project looking very costly, some additional assumptions were taken into account. The first is a installations.

Does Algeria have a potential for solar PV and wind energy?

It is found and confirmed that Algeria has a huge potential of solar PV and wind energy, accounted to a maximum annual sum of 2.38 MWh/m²/year and 3.33 MWh/m²/year, respectively. Moderate complementarity levels are observed on the daily timescale in the coastal and highlands regions.



Algerian wind power generation system



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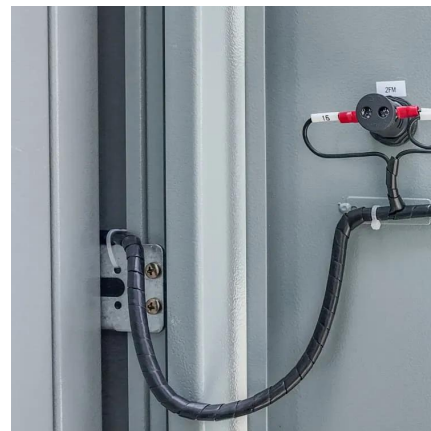
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In recent years, Algeria has planned to install 10 MW of wind power generation in the isolated Adrar power system. Since the stability of a power system is widely influenced by the wind ...

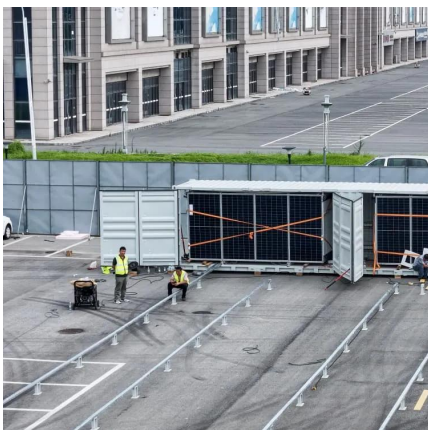


[Algeria's Ambitious Plans for 1,000 Megawatts of Wind Power](#)

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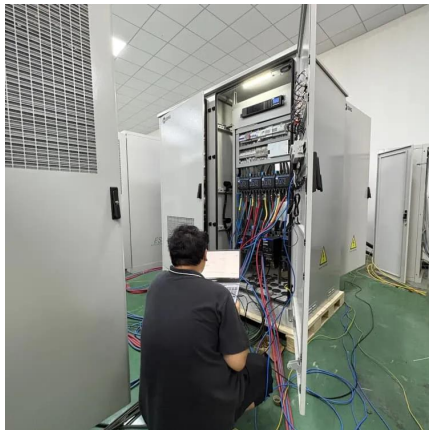
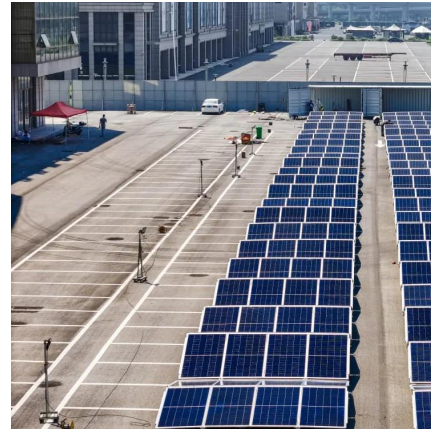
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