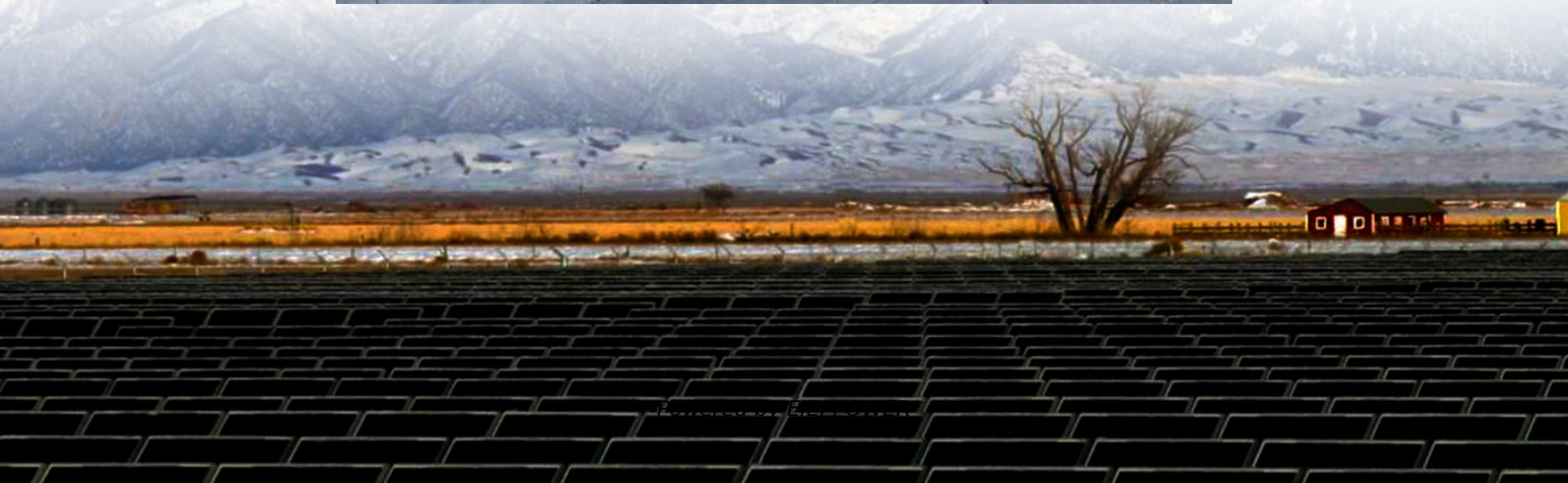


Algiers solar container communication station Wind Power Management Measures





Overview

The recent transition towards sustainable energy resources, aiming for the decarbonisation of the electrical power sector has gained global and regional importance. Therefore, there is a great need to cr.

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.

Is energy demand increasing in Algeria?

However, the energy sector in Algeria has to overcome other barriers, such as the increase of energy demand. In Fig. 2, the monthly load demand of Algeria is presented during the period from 2000 to 2019, where an increasing energy demand is observed from roughly 2 TWh to 8 TWh.

Which region in Algeria has the lowest solar potential?

The Algerian coastal zone is characterised by the lowest solar potential particularly in the northeast region amounted to an annual sum of 1.62 MWh/m²/year. In contrast, the southeast regions (Tamanrasset) have the highest solar potential in the country amounted to 2.38 MWh/m²/year.

Are solar and wind resources synchronized?

Whereas, moderate synchronization of solar and wind resources is observed in the provinces of Tamanrasset, Tindouf (located in the west of Adrar province) and Illizi (in the north of Tamanrasset). In these regions, solar and wind are positively correlated and its complementarity index reaches a maximum of 0.36.



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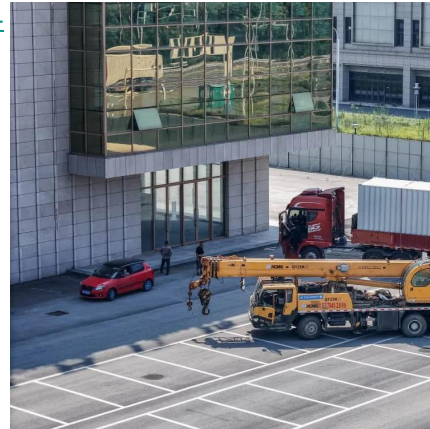
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